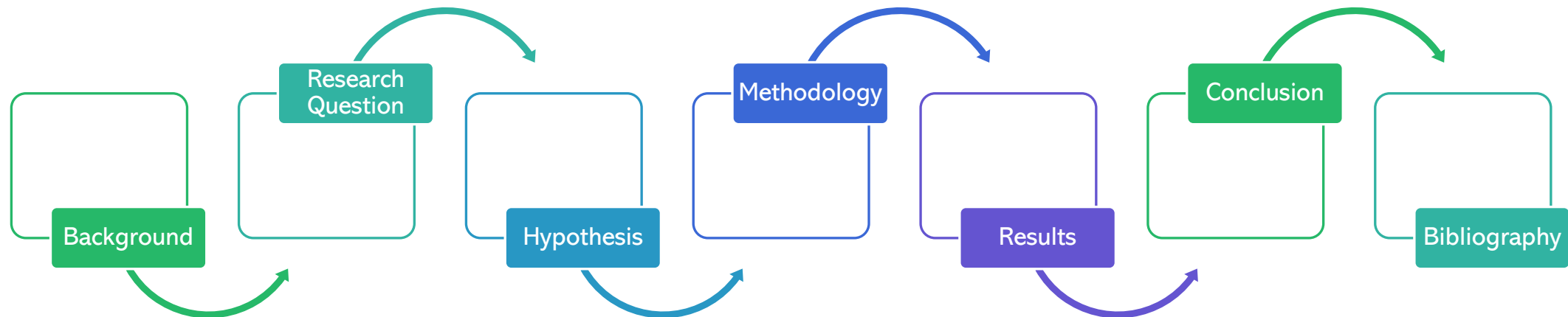




Mobile-based Network Monitoring System Using Zabbix and Telegram

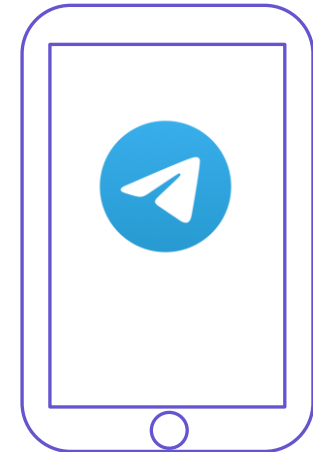
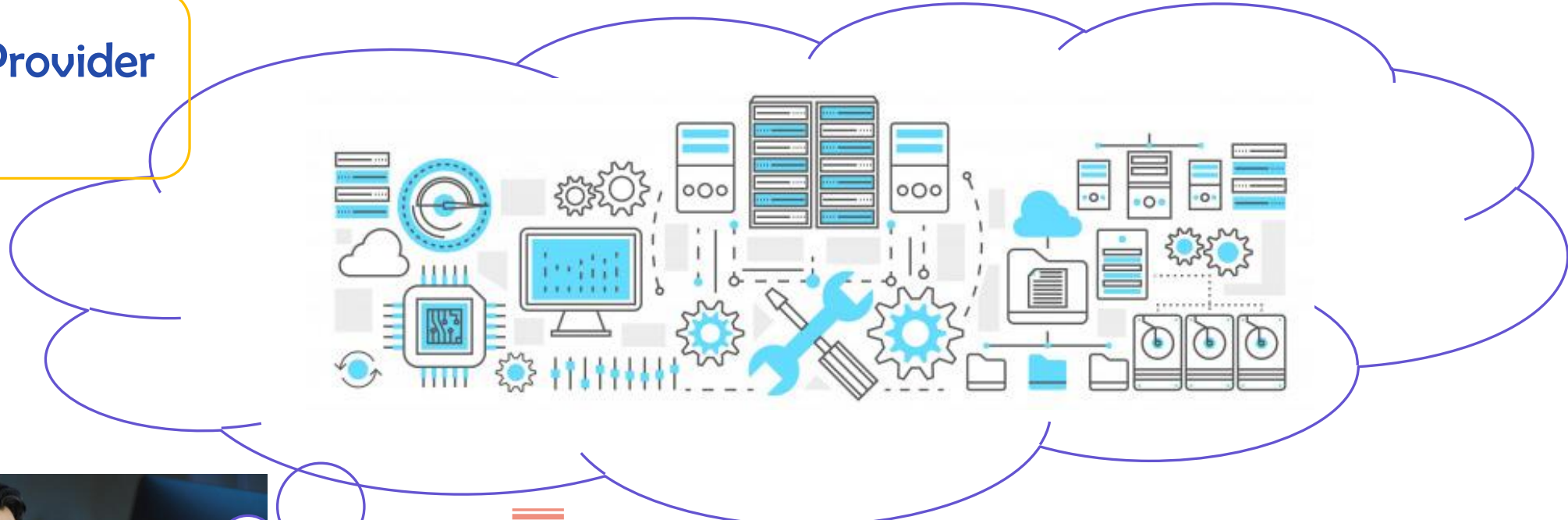
ANGGI MARDIYONO

Outline

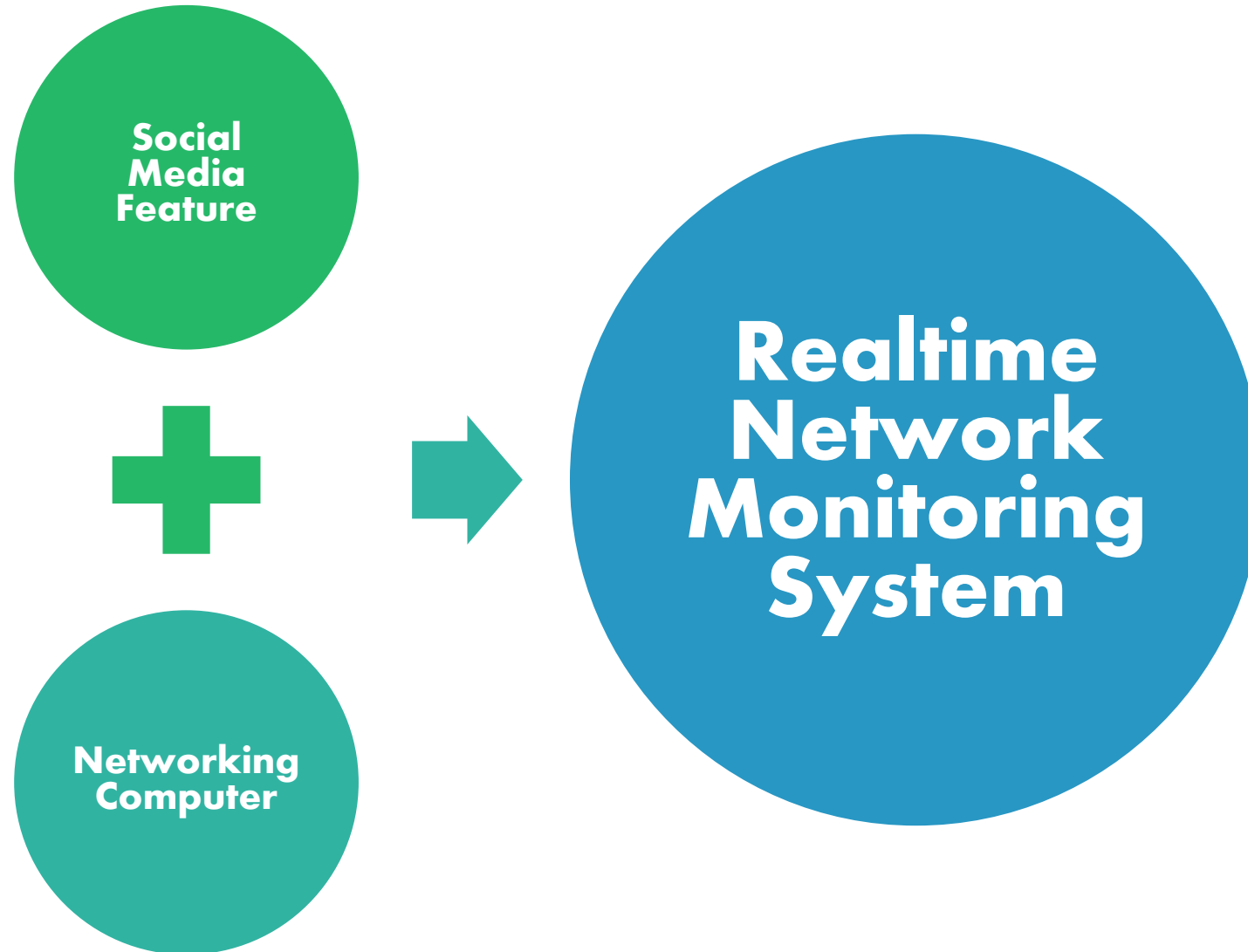


Background

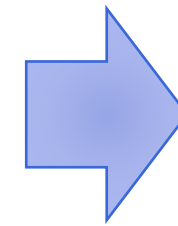
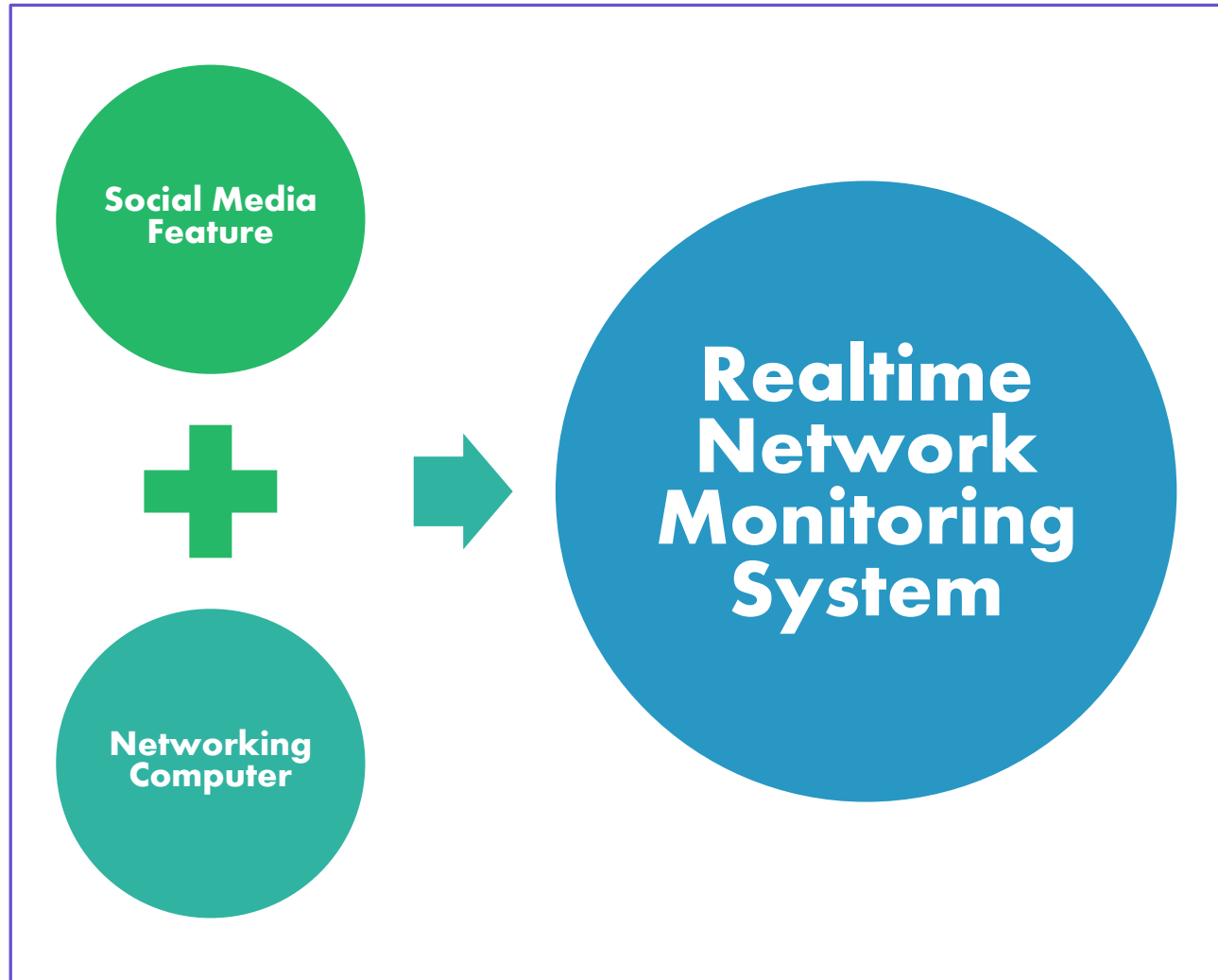
Internet Service Provider
APJII



Research Question

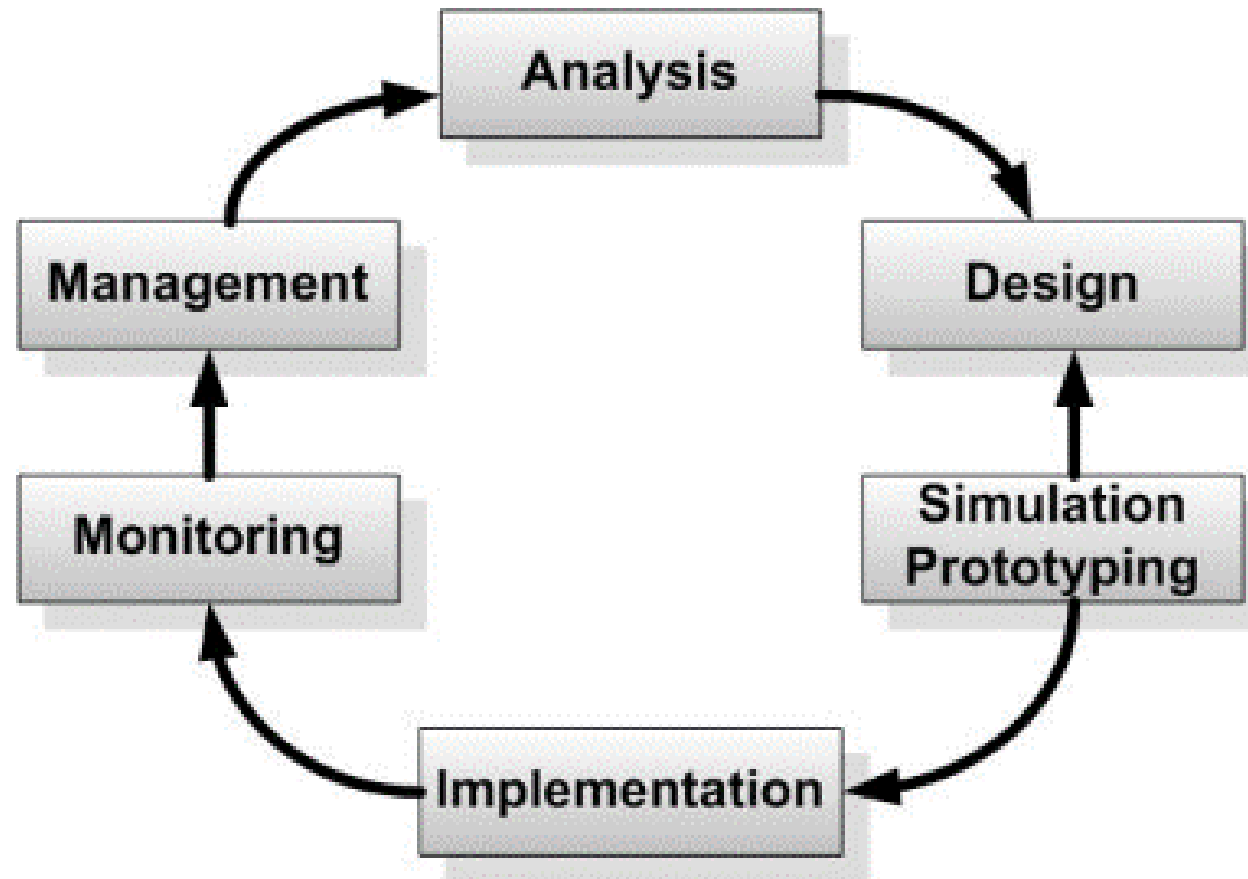


Hyphotesis



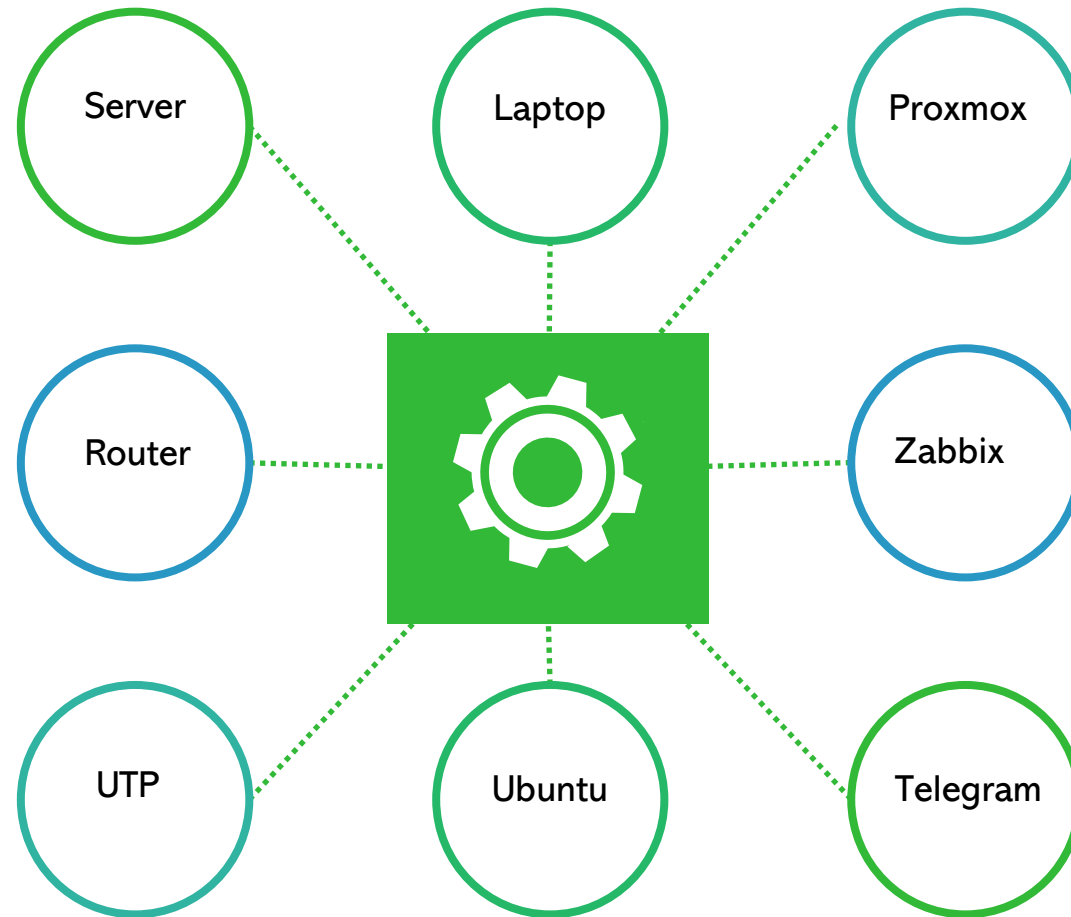
Messenger application

Methodology

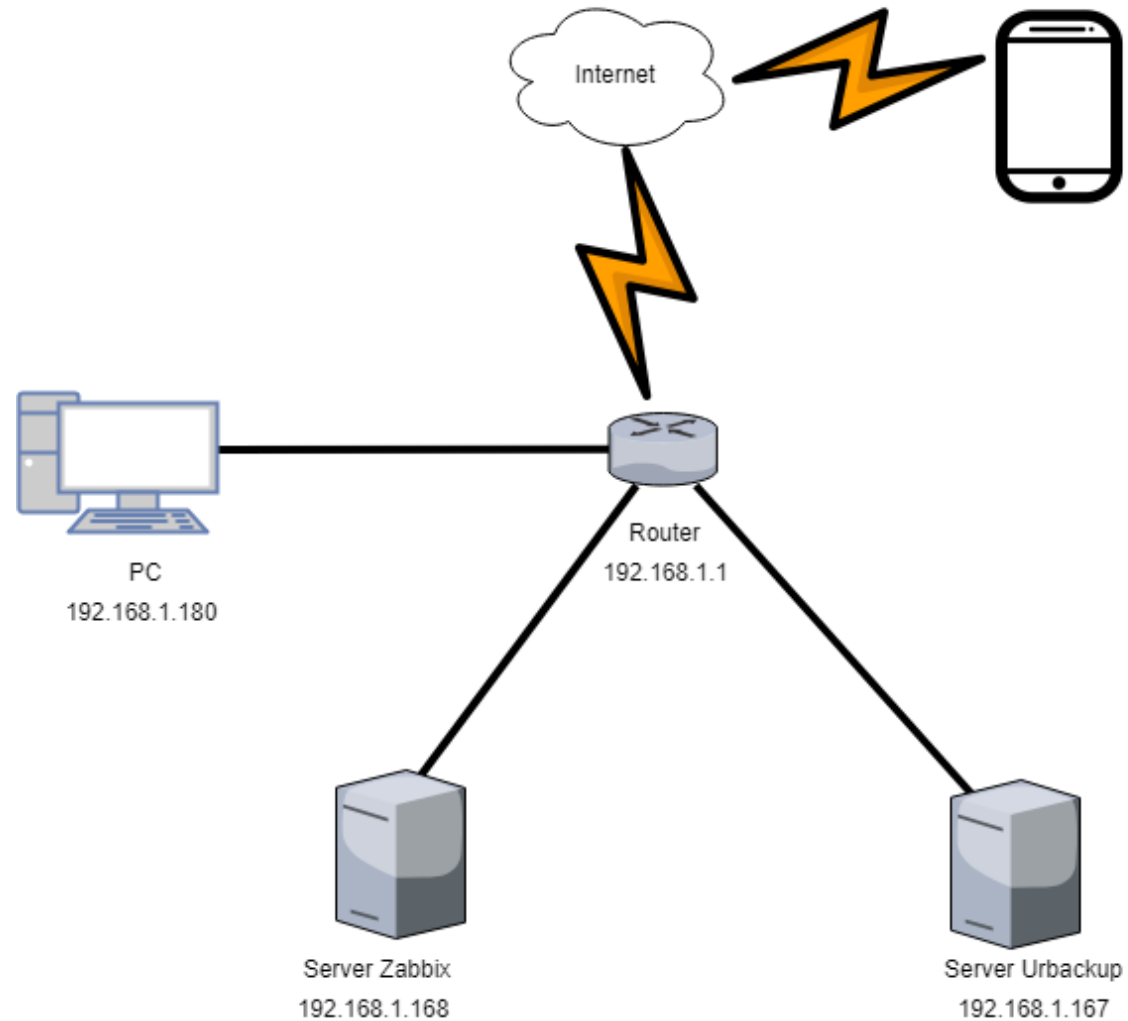


Network Development Life Cycle [8]

Result



Result



Result



ZABBIX

Username

Password

Remember me for 30 days

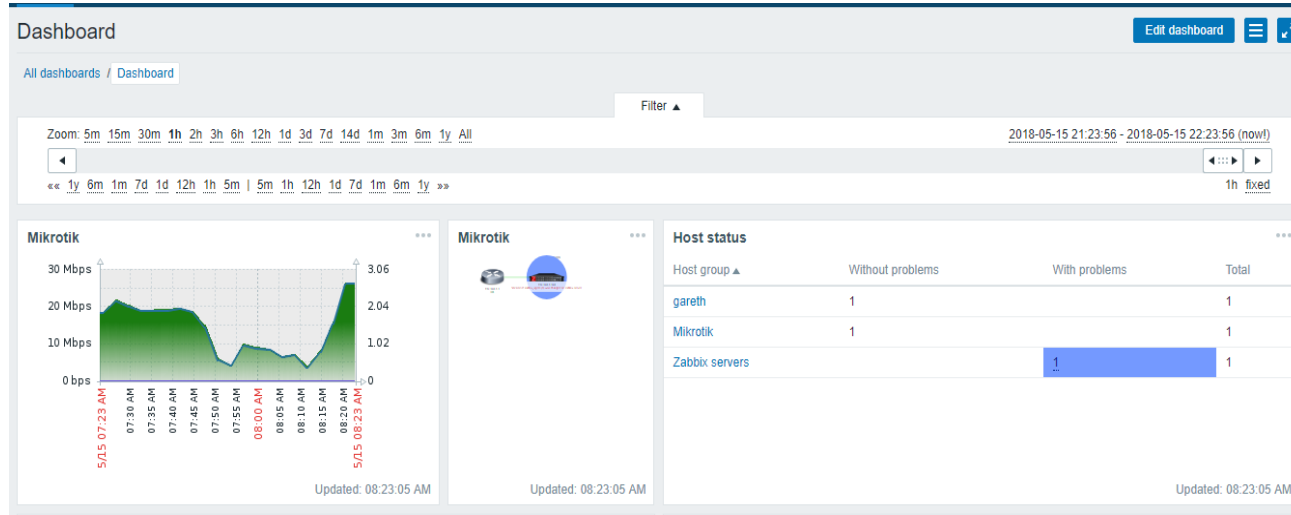
[Sign in](#)

or sign in as guest

[Help](#) • [Support](#)

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Login page



Dashboard page

Host Templates IPMI Macros Host inventory Encryption

Host name

Visible name

Groups In groups

Other groups

- Discovered hosts
- Hypervisors
- Linux servers
- Mikrotik
- Templates
- Templates/Applications
- Templates/Databases
- Templates/Modules
- Templates/Network Devices
- Templates/Operating Systems

New group

Agent interfaces

IP address	DNS name	Connect to	Port	Default
127.0.0.1		IP DNS	10050	<input checked="" type="radio"/> Remove

[Add](#)

SNMP interfaces [Add](#)

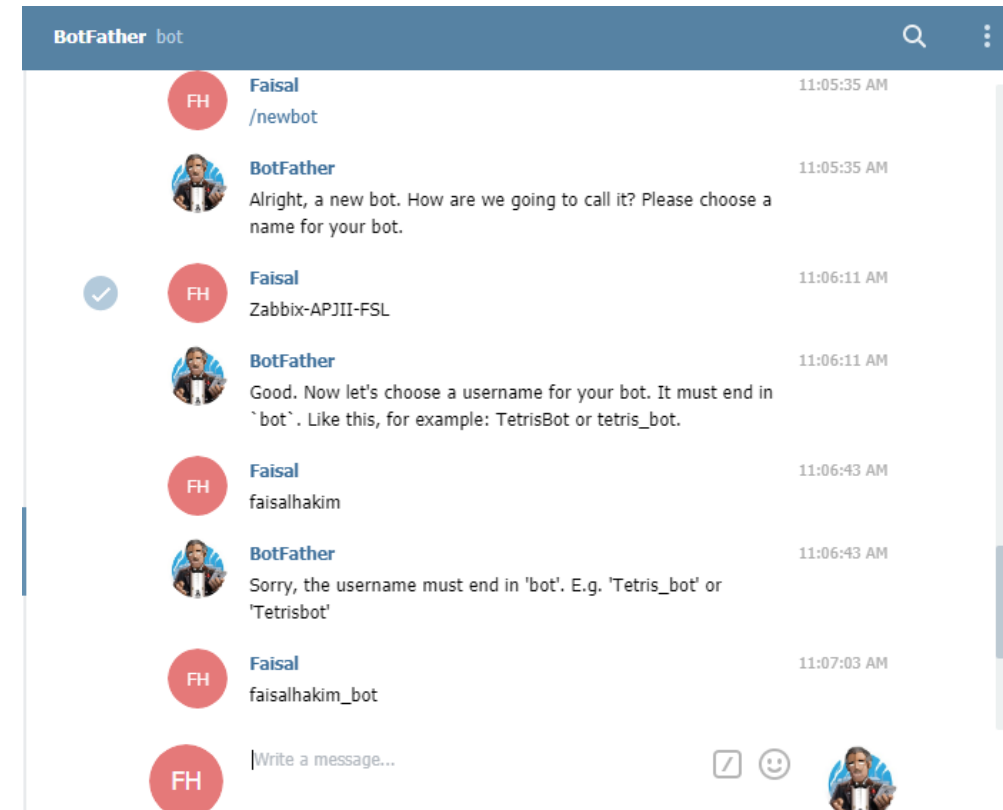
JMX interfaces [Add](#)

IPMI interfaces [Add](#)

Adding New Host



The Bot Messenger



Result



reth) on node 'magang' ▶ Start ⏻ Shutdown

gareth Notes ⚙️

Status	stopped
HA State	none
Node	magang
CPU usage	0.00% of 4 CPU(s)
Memory usage	0.00% (0 B of 2.00 GiB)
Bootdisk size	1.00 TiB

The host is off

Mikrotik ***

Updated: 09:46:30 PM

Mikrotik ***

Updated: 09:46:30 PM

Host status ***

Host group	Without problems	With problems	Total
gareth		1	1
Mikrotik	1		1
Zabbix servers	1		1

Updated: 09:46:31 P

Problems ***

Time	Recovery time	Status	Info	Host	Problem • Severity	Duration	Ack	Actions
09:46:06 PM				gareth dummy	Unavailable by ICMP ping	25s	No	Done 3

System status ***

Host group	Disaster	High	Average	Warning	Information	Not classified
gareth		1				
Mikrotik						
Zabbix servers						

Status of Zabbix

Zabbix-AJIII-FSL

Problem: Unavailable by ICMP ping
Problem started at 21:46:06 on 2018.05.18
Problem name: Unavailable by ICMP ping
Host: gareth dummy
Severity: High...

web.telegram.org

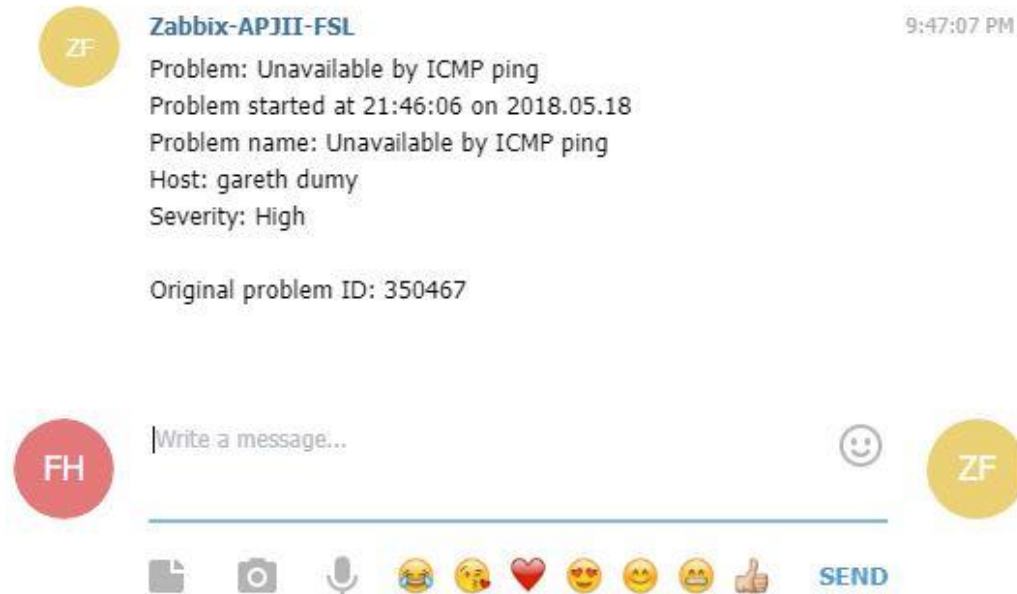
Mute background alerts for 1 day

Background alerts settings

Zabbix detects one the host is down



Result



Telegram will send notification if the host is down

Conclusion

Network monitoring using Zabbix with Telegram notification has been successfully implemented



The most common problem is overloaded Disk I/O. The solution is to delete the cache on the linux or add the hardware specifications used to install Zabbix

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Thank you