LAB 4

SIMULATION/LAB FORTIGATE FUNDAMENTAL

Allow Zone DMZ (Server) to LAN (Office)

- ✓ Configuration IP Address on Interfaces Zone DMZ
- ✓ Configuration Firewall Policy Zone DMZ for Allow Communicated Between LAN Office

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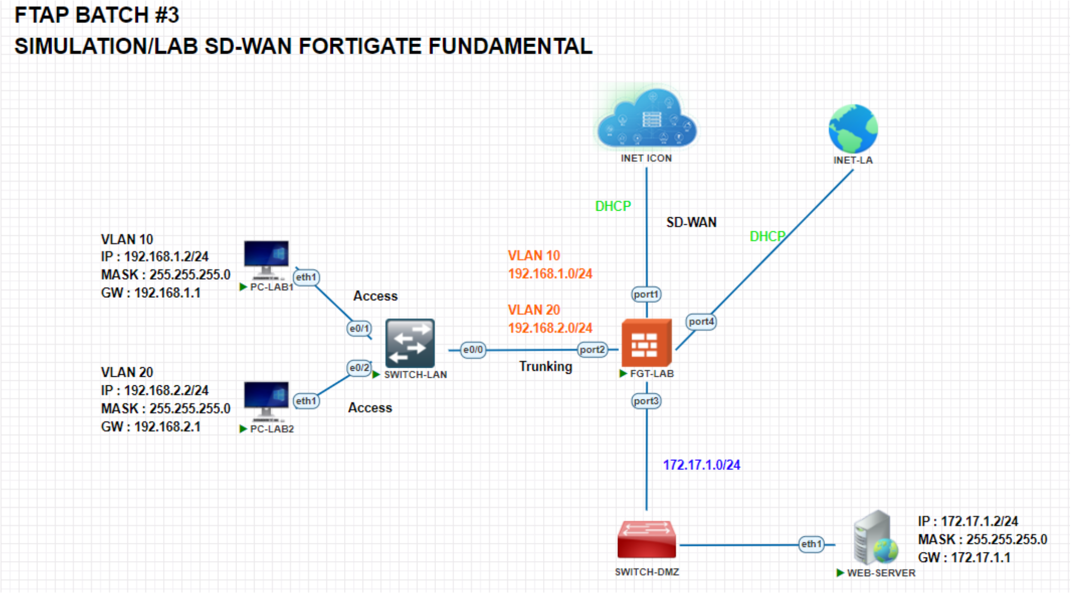
1. Topology

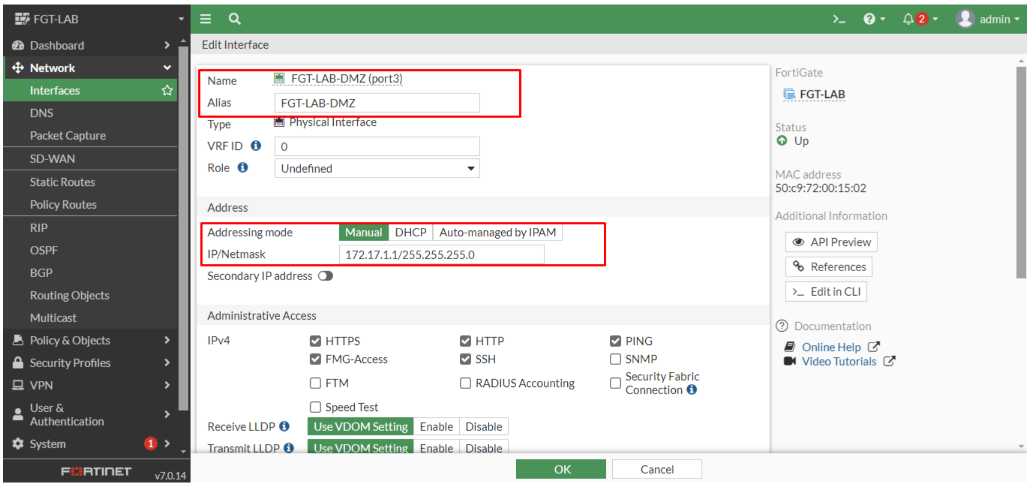


2. Task

Lab keempat bertujuan untuk mengizinkan akses dari zona DMZ ke zona LAN di jaringan. Hal ini memungkinkan PC-LAB1 dan PC-LAB2 untuk berinteraksi atau berkomunikasi di zona DMZ.

#Configuration IP Address on Interfaces Zone DMZ

Konfigurasi ini bertujuan untuk menyiapkan interface “port3” pada FortiGate dengan semua pengaturan yang diperlukan untuk menghubungkan dan mengelola zona DMZ (Demilitarized Zone).



Edit Interface

Name FGT-LAB-DMZ (port3)

Alias FGT-LAB-DMZ

Type Physical Interface

VRF ID 0

Role Undefined

Address

Addressing mode [✓ Manual] DHCP Auto-managed by IPAM

IP/Netmask 172.17.1.1/255.255.255.0

Secondary IP address

Administrative Access

IPv4 ☑ HTTPS ☑ HTTP ☑ PING ☑ FMG-Access ☑ SSH □ SNMP □ FTM □ RADIUS Accounting □ Security Fabric Connection □ Speed Test

Receive LLDP [✓ Use VDOM Setting] Enable Disable

Transmit LLDP [✓ Use VDOM Setting] Enable Disable

FortiGate FGT-LAB

Status Up

MAC address 50:c9:72:00:15:02

Additional Information

API Preview

References

Edit in CLI

Documentation

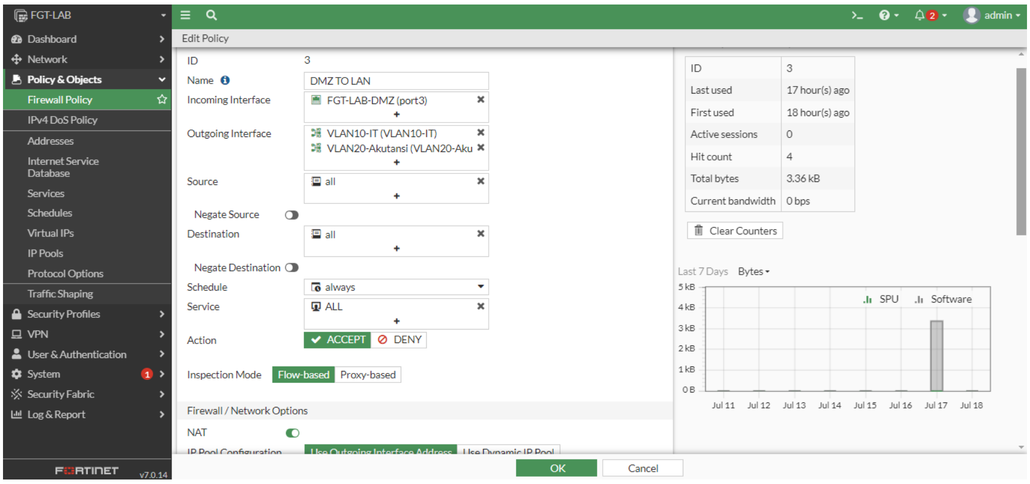
Online Help

Video Tutorials

OK Cancel

#Configuration Firewall Policy Zone DMZ

Konfigurasi ini bertujuan untuk mengatur kebijakan firewall yang spesifik agar lalu lintas dari zona DMZ (melalui interface "port3") dapat mengakses zona LAN (VLAN10-IT dan VLAN20-Akutansi). Dengan konfigurasi ini, DMZ diizinkan berkomunikasi dengan zona LAN yang dituju.



Edit Policy

ID: 3
Name: DMZ TO LAN
Incoming Interface: FGT-LAB-DMZ (port3)
Outgoing Interface: VLAN10-IT (VLAN10-IT), VLAN20-Akutansi (VLAN20-Aku
Source: all
Negate Source: ○
Destination: all
Negate Destination: ○
Schedule: always
Service: ALL
Action: [✓ ACCEPT] DENY
Inspection Mode: [✓ Flow-based] Proxy-based

Firewall / Network Options

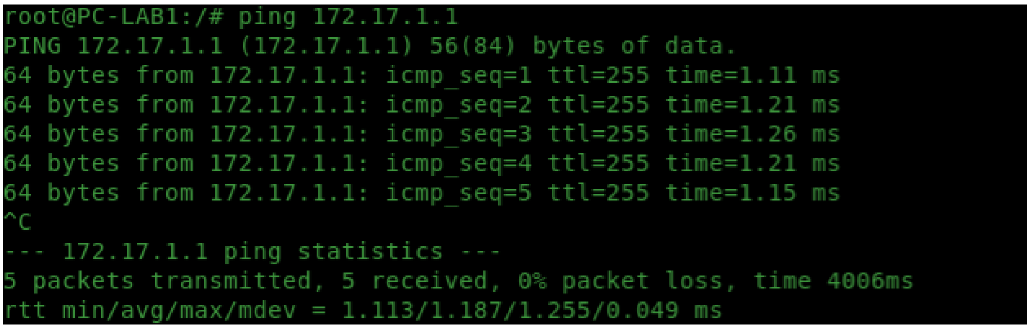
NAT: ●
IP Pool Configuration: [✓ Use Outgoing Interface Address] Use Dynamic IP Pool

ID	3
Last used	17 hour(s) ago
First used	18 hour(s) ago
Active sessions	0
Hit count	4
Total bytes	3.36 kB
Current bandwidth	0 bps

3. Pengujian

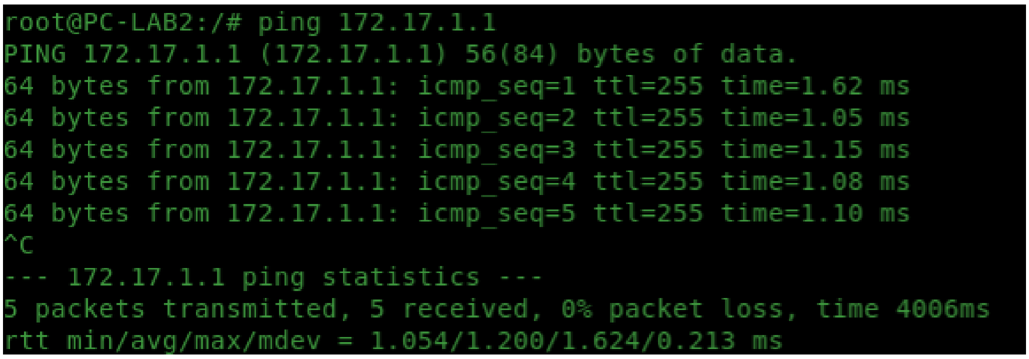
- **Testing Ping from PC-LAB1 & PC-LAB2 to WEB-SERVER**

PC-LAB1 to WEB-SERVER



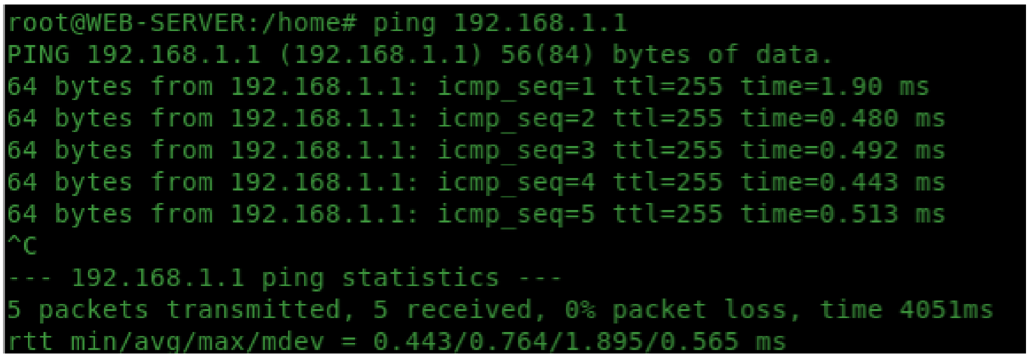
```
root@PC-LAB1:/# ping 172.17.1.1
PING 172.17.1.1 (172.17.1.1) 56(84) bytes of data.
64 bytes from 172.17.1.1: icmp_seq=1 ttl=255 time=1.11 ms
64 bytes from 172.17.1.1: icmp_seq=2 ttl=255 time=1.21 ms
64 bytes from 172.17.1.1: icmp_seq=3 ttl=255 time=1.26 ms
64 bytes from 172.17.1.1: icmp_seq=4 ttl=255 time=1.21 ms
64 bytes from 172.17.1.1: icmp_seq=5 ttl=255 time=1.15 ms
^C
--- 172.17.1.1 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 1.113/1.187/1.255/0.049 ms
```

PC-LAB2 to WEB-SERVER



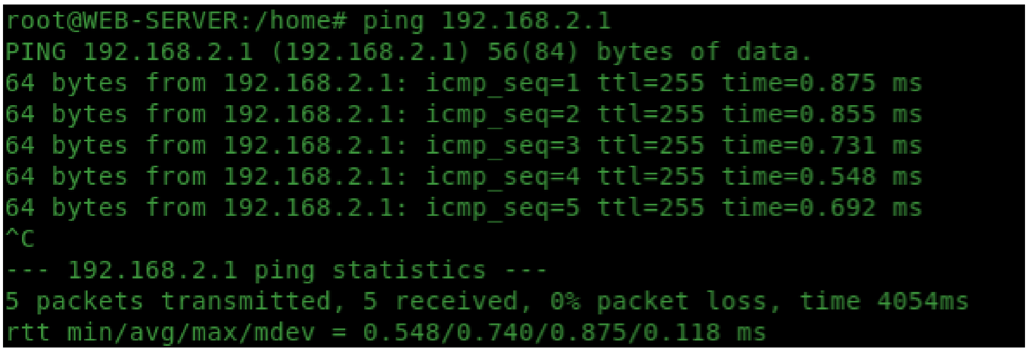
```
root@PC-LAB2:/# ping 172.17.1.1
PING 172.17.1.1 (172.17.1.1) 56(84) bytes of data.
64 bytes from 172.17.1.1: icmp_seq=1 ttl=255 time=1.62 ms
64 bytes from 172.17.1.1: icmp_seq=2 ttl=255 time=1.05 ms
64 bytes from 172.17.1.1: icmp_seq=3 ttl=255 time=1.15 ms
64 bytes from 172.17.1.1: icmp_seq=4 ttl=255 time=1.08 ms
64 bytes from 172.17.1.1: icmp_seq=5 ttl=255 time=1.10 ms
^C
--- 172.17.1.1 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 1.054/1.200/1.624/0.213 ms
```

WEB-SERVER to PC-LAB1



```
root@WEB-SERVER:/home# ping 192.168.1.1
PING 192.168.1.1 (192.168.1.1) 56(84) bytes of data.
64 bytes from 192.168.1.1: icmp_seq=1 ttl=255 time=1.90 ms
64 bytes from 192.168.1.1: icmp_seq=2 ttl=255 time=0.480 ms
64 bytes from 192.168.1.1: icmp_seq=3 ttl=255 time=0.492 ms
64 bytes from 192.168.1.1: icmp_seq=4 ttl=255 time=0.443 ms
64 bytes from 192.168.1.1: icmp_seq=5 ttl=255 time=0.513 ms
^C
--- 192.168.1.1 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4051ms
rtt min/avg/max/mdev = 0.443/0.764/1.895/0.565 ms
```

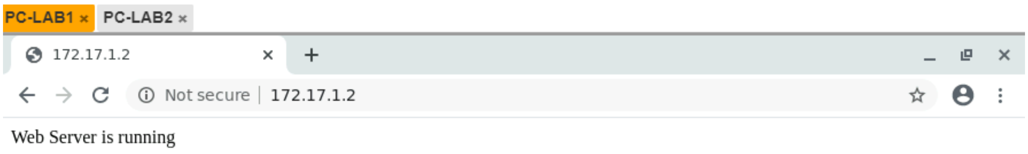
WEB-SERVER to PC-LAB2



```
root@WEB-SERVER:/home# ping 192.168.2.1
PING 192.168.2.1 (192.168.2.1) 56(84) bytes of data.
64 bytes from 192.168.2.1: icmp_seq=1 ttl=255 time=0.875 ms
64 bytes from 192.168.2.1: icmp_seq=2 ttl=255 time=0.855 ms
64 bytes from 192.168.2.1: icmp_seq=3 ttl=255 time=0.731 ms
64 bytes from 192.168.2.1: icmp_seq=4 ttl=255 time=0.548 ms
64 bytes from 192.168.2.1: icmp_seq=5 ttl=255 time=0.692 ms
^C
--- 192.168.2.1 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4054ms
rtt min/avg/max/mdev = 0.548/0.740/0.875/0.118 ms
```

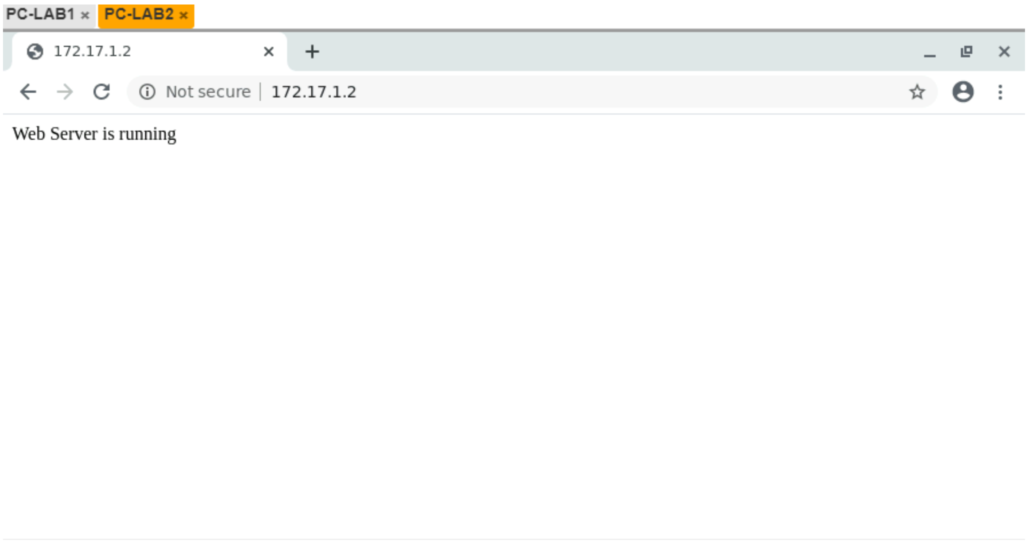
- **Testing Access URL from PC-LAB1 & PC-LAB2 to WEB-SERVER**

PC-LAB1 to WEB-SERVER



Web Server is running

PC-LAB2 to WEB-SERVER



Web Server is running