

PRAKTIKUM 1

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1. Lokal Area Network IP Network 192.168.10.16/24

A. Hasil pengisian IP Address.

Cancel Lab.InPro Apply

Details Identity IPv4 IPv6 Security

IPv4 Method

☐ Automatic (DHCP) ☐ Link-Local Only
☒ Manual ☐ Disable

Addresses

Address	Netmask	Gateway
192.168.10.16	255.255.255.0	

DNS Automatic ☒

Separate IP addresses with commas

Routes Automatic ☒

Address	Netmask	Gateway	Metric

```
wlp4s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.10.16 netmask 255.255.255.0 broadcast 192.168.10.255
inet6 fd8c:f71e:6843:0:b0ed:317:b2a5:eb49 prefixlen 64 scopeid 0x0<global>
inet6 fe80::ab39:2c58:5e4c:b704 prefixlen 64 scopeid 0x20<link>
inet6 fd8c:f71e:6843::7d1 prefixlen 128 scopeid 0x0<global>
inet6 fd8c:f71e:6843:0:fbaf:8d23:5475:4a9d prefixlen 64 scopeid 0x0<global>
ether 80:a5:89:ab:83:9b txqueuelen 1000 (Ethernet)
RX packets 101100 bytes 11562452 (11.5 MB)
RX errors 0 dropped 195 overruns 0 frame 0
TX packets 12211 bytes 1515267 (1.5 MB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

x@Panda:~$
```

B. Hasil test ping IP sendiri ping 192.168.10.16 -c 10

```
x@Panda:~$ ping 192.168.10.16 -c 10
PING 192.168.10.16 (192.168.10.16) 56(84) bytes of data.
64 bytes from 192.168.10.16: icmp_seq=1 ttl=64 time=0.077 ms
64 bytes from 192.168.10.16: icmp_seq=2 ttl=64 time=0.053 ms
64 bytes from 192.168.10.16: icmp_seq=3 ttl=64 time=0.068 ms
64 bytes from 192.168.10.16: icmp_seq=4 ttl=64 time=0.060 ms
64 bytes from 192.168.10.16: icmp_seq=5 ttl=64 time=0.070 ms
64 bytes from 192.168.10.16: icmp_seq=6 ttl=64 time=0.055 ms
64 bytes from 192.168.10.16: icmp_seq=7 ttl=64 time=0.076 ms
64 bytes from 192.168.10.16: icmp_seq=8 ttl=64 time=0.073 ms
64 bytes from 192.168.10.16: icmp_seq=9 ttl=64 time=0.054 ms
64 bytes from 192.168.10.16: icmp_seq=10 ttl=64 time=0.075 ms

--- 192.168.10.16 ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9196ms
rtt min/avg/max/mdev = 0.053/0.066/0.077/0.009 ms
x@Panda:~$
```

C. Hasil test ping IP 192.168.10.254-c 10

```
x@Panda:~$ ping 192.168.10.254 -c 10
PING 192.168.10.254 (192.168.10.254) 56(84) bytes of data.
64 bytes from 192.168.10.254: icmp_seq=1 ttl=128 time=67.2 ms
64 bytes from 192.168.10.254: icmp_seq=2 ttl=128 time=141 ms
64 bytes from 192.168.10.254: icmp_seq=3 ttl=128 time=1.68 ms
64 bytes from 192.168.10.254: icmp_seq=4 ttl=128 time=77.5 ms
64 bytes from 192.168.10.254: icmp_seq=5 ttl=128 time=124 ms
64 bytes from 192.168.10.254: icmp_seq=6 ttl=128 time=1.66 ms
64 bytes from 192.168.10.254: icmp_seq=7 ttl=128 time=1.66 ms
64 bytes from 192.168.10.254: icmp_seq=8 ttl=128 time=1.58 ms
64 bytes from 192.168.10.254: icmp_seq=9 ttl=128 time=2.15 ms
64 bytes from 192.168.10.254: icmp_seq=10 ttl=128 time=1.61 ms

--- 192.168.10.254 ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9015ms
rtt min/avg/max/mdev = 1.580/42.097/141.389/53.207 ms
x@Panda:~$
```

D. Hasil test ping IP teman sebelah 192.168.10.19 -c 10

```
x@Panda:~$ ping 192.168.10.19 -c 10
PING 192.168.10.19 (192.168.10.19) 56(84) bytes of data.
64 bytes from 192.168.10.19: icmp_seq=1 ttl=64 time=15.6 ms
64 bytes from 192.168.10.19: icmp_seq=2 ttl=64 time=2.13 ms
64 bytes from 192.168.10.19: icmp_seq=3 ttl=64 time=2.16 ms
64 bytes from 192.168.10.19: icmp_seq=4 ttl=64 time=2.06 ms
64 bytes from 192.168.10.19: icmp_seq=5 ttl=64 time=3.60 ms
64 bytes from 192.168.10.19: icmp_seq=6 ttl=64 time=2.20 ms
64 bytes from 192.168.10.19: icmp_seq=7 ttl=64 time=7.69 ms
64 bytes from 192.168.10.19: icmp_seq=8 ttl=64 time=137 ms
64 bytes from 192.168.10.19: icmp_seq=9 ttl=64 time=2.54 ms
64 bytes from 192.168.10.19: icmp_seq=10 ttl=64 time=78.1 ms

--- 192.168.10.19 ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9014ms
rtt min/avg/max/mdev = 2.062/25.393/137.780/43.564 ms
x@Panda:~$
```

PRAKTIKUM 2

2. Lokal Area Network IP Network 192.168.20.25/29

A. Hasil pengisian IP Address.

Cancel Lab.InPro Apply

Details Identity IPv4 IPv6 Security

IPv4 Method

☐ Automatic (DHCP) ☐ Link-Local Only

☒ Manual ☐ Disable

Addresses

Address	Netmask	Gateway
192.168.20.25	255.255.255.248	

DNS Automatic ☒

Separate IP addresses with commas

Routes Automatic ☒

Address	Netmask	Gateway	Metric

```
wlp4s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.20.25 netmask 255.255.255.248 broadcast 192.168.20.31
inet6 fe80::ab39:2c58:5e4c:b704 prefixlen 64 scopeid 0x20<link>
ether 80:a5:89:ab:83:9b txqueuelen 1000 (Ethernet)
RX packets 145159 bytes 16911755 (16.9 MB)
RX errors 0 dropped 340 overruns 0 frame 0
TX packets 18274 bytes 2238896 (2.2 MB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

x@Panda:~\$

B. Hasil test ping IP sendiri ping 192.168.20.25 -c 10

```
x@Panda:~$ ping 192.168.20.20 -c 2
connect: Network is unreachable
x@Panda:~$ ping 192.168.20.30 -c 2
PING 192.168.20.30 (192.168.20.30) 56(84) bytes of data.
64 bytes from 192.168.20.30: icmp_seq=1 ttl=128 time=204 ms
64 bytes from 192.168.20.30: icmp_seq=2 ttl=128 time=1.62 ms

--- 192.168.20.30 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1000ms
rtt min/avg/max/mdev = 1.620/102.947/204.275/101.328 ms
x@Panda:~$ ping 192.168.20.25 -c 2
PING 192.168.20.25 (192.168.20.25) 56(84) bytes of data.
64 bytes from 192.168.20.25: icmp_seq=1 ttl=64 time=0.065 ms
64 bytes from 192.168.20.25: icmp_seq=2 ttl=64 time=0.054 ms

--- 192.168.20.25 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1027ms
rtt min/avg/max/mdev = 0.054/0.059/0.065/0.009 ms
x@Panda:~$
```

C. Hasil test ping IP 192.168.10.30-c 10

```
x@Panda:~$ ping 192.168.20.30 -c 10
PING 192.168.20.30 (192.168.20.30) 56(84) bytes of data.
64 bytes from 192.168.20.30: icmp_seq=1 ttl=128 time=87.2 ms
64 bytes from 192.168.20.30: icmp_seq=2 ttl=128 time=1.61 ms
64 bytes from 192.168.20.30: icmp_seq=3 ttl=128 time=1.48 ms
64 bytes from 192.168.20.30: icmp_seq=4 ttl=128 time=7.29 ms
64 bytes from 192.168.20.30: icmp_seq=5 ttl=128 time=1.60 ms
64 bytes from 192.168.20.30: icmp_seq=6 ttl=128 time=1.64 ms
64 bytes from 192.168.20.30: icmp_seq=7 ttl=128 time=1.58 ms
64 bytes from 192.168.20.30: icmp_seq=8 ttl=128 time=1.60 ms
64 bytes from 192.168.20.30: icmp_seq=9 ttl=128 time=1.99 ms
64 bytes from 192.168.20.30: icmp_seq=10 ttl=128 time=1.57 ms

--- 192.168.20.30 ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9013ms
rtt min/avg/max/mdev = 1.482/10.765/87.268/25.557 ms
x@Panda:~$
```

D. Hasil test ping IP Group Sebelah 192.168.20.17-c 10

```
x@Panda:~$ ping 192.168.20.17 -c 10
connect: Network is unreachable
x@Panda:~$
```

E. Hasil test ping IP teman sebelah 192.168.20.29 -c 10

```
x@Panda:~$ ping 192.168.20.29 -c 10
PING 192.168.20.29 (192.168.20.29) 56(84) bytes of data.
64 bytes from 192.168.20.29: icmp_seq=1 ttl=64 time=2.06 ms
64 bytes from 192.168.20.29: icmp_seq=2 ttl=64 time=2.45 ms
64 bytes from 192.168.20.29: icmp_seq=3 ttl=64 time=1.96 ms
64 bytes from 192.168.20.29: icmp_seq=4 ttl=64 time=3.60 ms
64 bytes from 192.168.20.29: icmp_seq=5 ttl=64 time=137 ms
64 bytes from 192.168.20.29: icmp_seq=7 ttl=64 time=1.91 ms
64 bytes from 192.168.20.29: icmp_seq=8 ttl=64 time=1.95 ms
64 bytes from 192.168.20.29: icmp_seq=9 ttl=64 time=2.01 ms
64 bytes from 192.168.20.29: icmp_seq=10 ttl=64 time=1.88 ms

--- 192.168.20.29 ping statistics ---
10 packets transmitted, 9 received, 10% packet loss, time 9032ms
rtt min/avg/max/mdev = 1.885/17.221/137.134/42.398 ms
x@Panda:~$
```