

NAMA : DITA DENITA PRAMESTI

NIM : L200170139

KELAS : C

MODUL: 3

1. Supermarket akan memasang jaringan computer yang menggunakan Network ID 202.155.19.0/24 dengan subnet mask default 255.255.255.0 mempunyai 5 divisi yang berisi 25 pc per divisi

Berikut proses menghitung :

Cari subnet 2^3 dengan subnet mask 255.255.255.224/27 atau

11111111.11111111.11111111.11100000 (mempunyai 5 host)

Mencari jumlah host $2^5 - 2 = 32 - 2$

= 30 host, 2 terdiri dari 1 NA dan 1 BC

202.155.19.0 = 11001010.10011011.00010011.00000000

255.255.255.224 = 11111111.11111111.11111111.11100000 AND
11001010.10011011.00010011.00000000 → 202.155.19.0

SUBNET1 → NA 202.155.19.0

Host/range 202.155.19.1-202.155.19.30

BC 202.155.19.31

SUBNET2 → NA 202.155.19.32

Host/range 202.155.19.33-202.155.19.62

BC 202.155.19.63

SUBNET3 → NA 202.155.19.64

Host/range 202.155.19.65-202.155.19.94

BC 202.155.19.95

SUBNET4 → NA 202.155.19.96

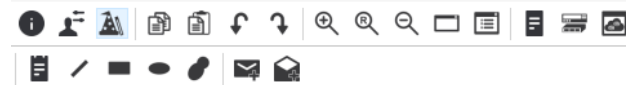
Host/range 202.155.19.97-202.155.19.126

BC 202.155.19.127

SUBNET5 → NA 202.155.19.128

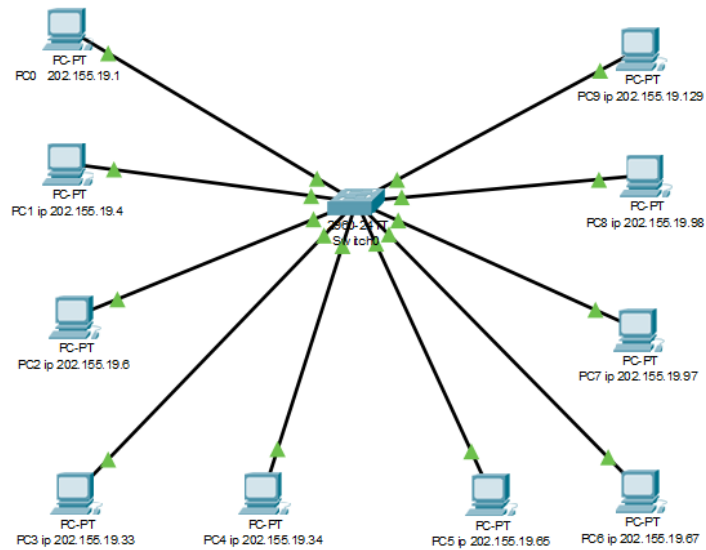
Host/range 202.155.19.129-202.155.19.158

BC 202.155.19.159



physical x: 1042, y: 500

[Ro



PC0

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address 202.155.19.1

Subnet Mask 255.255.255.224

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::20B:BEFF:FE5B:A93D

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

PC1 ip 202.155.19.4

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address 202.155.19.4

Subnet Mask 255.255.255.224

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::209:7CFF:FE55:489E

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

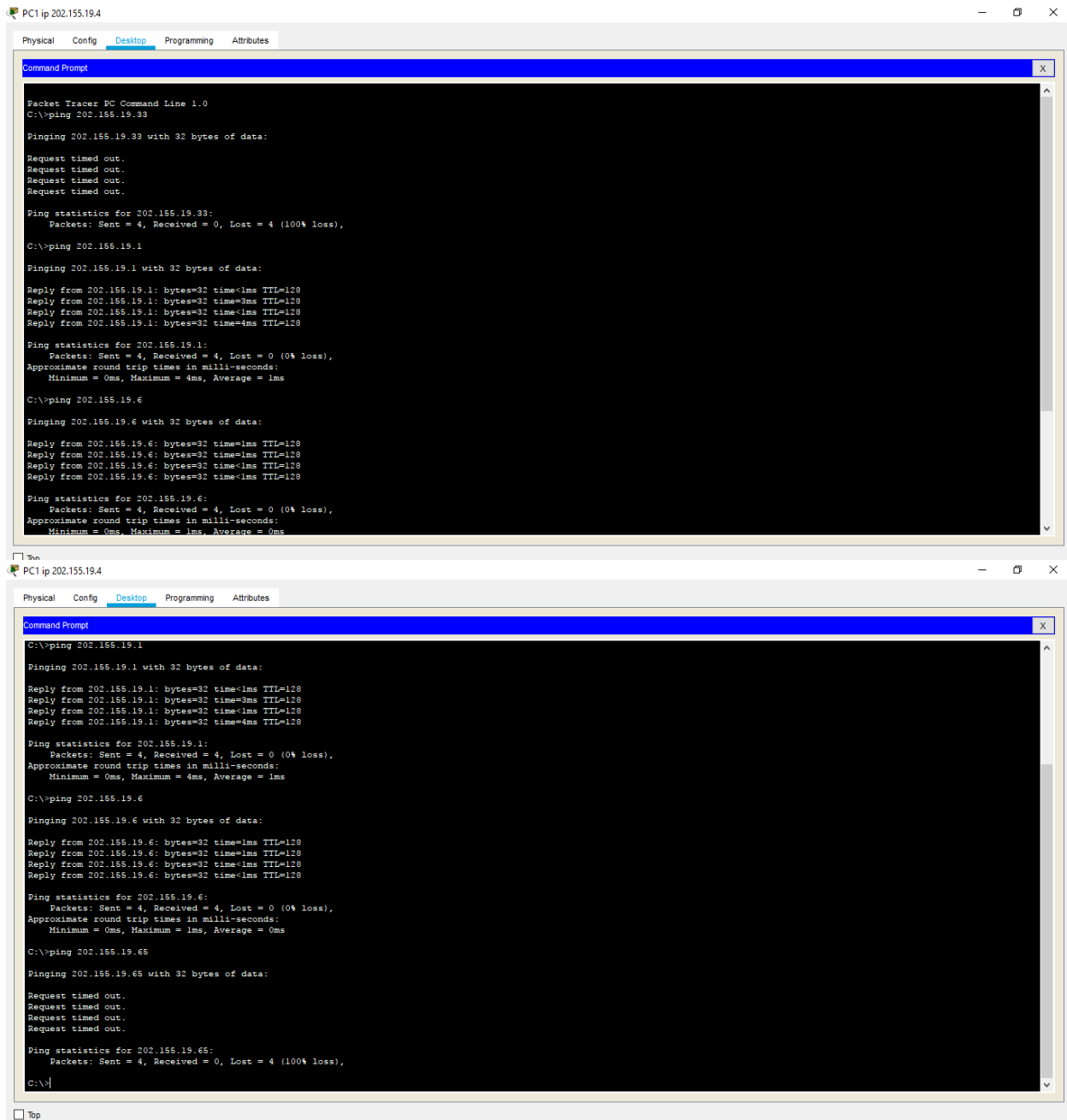
Authentication MD5

Username

Password

☐ Top

Setelah memasukkan IP address kemudian di cek dengan ping.



The image displays two screenshots of a Packet Tracer PC configuration window for a PC with IP 202.155.19.4. The 'Desktop' tab is active, showing a 'Command Prompt' window. The first screenshot shows the results of a ping test to 202.155.19.33, which failed with 100% loss, and a successful ping test to 202.155.19.1. The second screenshot shows the results of a ping test to 202.155.19.1, which was successful, and a ping test to 202.155.19.6, which also failed with 100% loss.

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Packet Tracer PC Command Line 1.0
C:\>ping 202.155.19.33

Pinging 202.155.19.33 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 202.155.19.33:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 202.155.19.1

Pinging 202.155.19.1 with 32 bytes of data:

Reply from 202.155.19.1: bytes=32 time<1ms TTL=128
Reply from 202.155.19.1: bytes=32 time=3ms TTL=128
Reply from 202.155.19.1: bytes=32 time<1ms TTL=128
Reply from 202.155.19.1: bytes=32 time=4ms TTL=128

Ping statistics for 202.155.19.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms

C:\>ping 202.155.19.6

Pinging 202.155.19.6 with 32 bytes of data:

Reply from 202.155.19.6: bytes=32 time<1ms TTL=128
Reply from 202.155.19.6: bytes=32 time<1ms TTL=128
Reply from 202.155.19.6: bytes=32 time<1ms TTL=128
Reply from 202.155.19.6: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 202.155.19.1

Pinging 202.155.19.1 with 32 bytes of data:

Reply from 202.155.19.1: bytes=32 time<1ms TTL=128
Reply from 202.155.19.1: bytes=32 time=3ms TTL=128
Reply from 202.155.19.1: bytes=32 time<1ms TTL=128
Reply from 202.155.19.1: bytes=32 time=4ms TTL=128

Ping statistics for 202.155.19.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms

C:\>ping 202.155.19.6

Pinging 202.155.19.6 with 32 bytes of data:

Reply from 202.155.19.6: bytes=32 time<1ms TTL=128
Reply from 202.155.19.6: bytes=32 time<1ms TTL=128
Reply from 202.155.19.6: bytes=32 time<1ms TTL=128
Reply from 202.155.19.6: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 202.155.19.65

Pinging 202.155.19.65 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 202.155.19.65:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

Dari sini bisa dijelaskan bahwa PC yang bisa saling terhubung hanya setiap PC di divisi masing masing, karena berbeda subnet address.