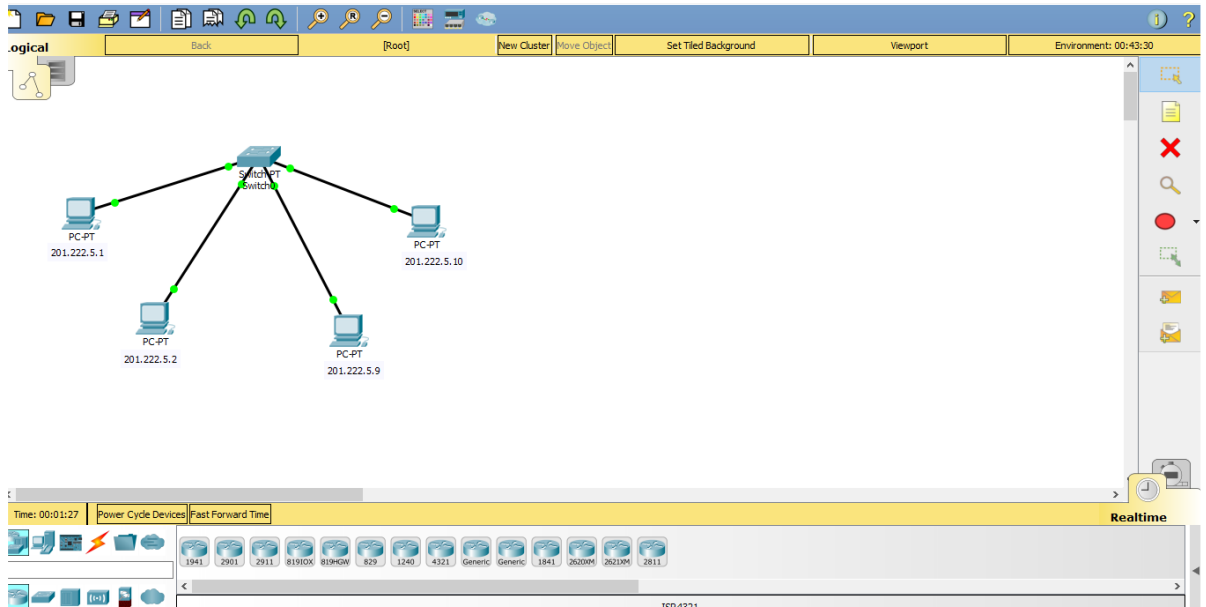


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Modul : 3

### Kegiatan

1. Rancangan jaringan dengan pembagian IP dan subnetmasknya



2. Melakukan ping dari PC yang memiliki IP 201.222.5.2 ke pc yang memiliki IP 201.222.5.1 dan IP 201.222.5.9. Dan saat ping ke PC yang ber IP 201.222.5.1 lancar tetapi saat ping ke PC yang ber IP 201.222.5.9 gagal karena beberapa jaringan atau kelompok subnet

The screenshot shows the same network diagram as above. A command prompt window is open, displaying the following output:

```
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection: (default port)

Link-local IPv6 Address . . . . . : FE80::20D:BDFF:FE41:C738
IP Address. . . . . : 201.222.5.2
Subnet Mask . . . . . : 255.255.255.248
Default Gateway . . . . . : 0.0.0.0

C:\>ping 201.222.5.1

Pinging 201.222.5.1 with 32 bytes of data:

Reply from 201.222.5.1: bytes=32 time=77ms TTL=128
Reply from 201.222.5.1: bytes=32 time<1ms TTL=128
Reply from 201.222.5.1: bytes=32 time<1ms TTL=128
Reply from 201.222.5.1: bytes=32 time<1ms TTL=128

Ping statistics for 201.222.5.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 77ms, Average = 19ms

C:\>ping 201.222.5.9

Pinging 201.222.5.9 with 32 bytes of data:

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

Ping statistics for 201.222.5.9:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

3. Melakukan ping dari PC yang memiliki IP 201.222.5.10 ke pc yang memiliki IP 201.222.5.9 dan IP 201.222.5.1. Dan saat ping ke PC yang ber IP 201.222.5.9 lancar tetapi saat ping ke PC yang ber IP 201.222.5.1 gagal karena beberapa jaringan atau kelompok subnet

The screenshot displays a network simulation in Packet Tracer. The network topology shows a central 'Switch' connected to four 'PC-PT' devices with the following IP addresses: 201.222.5.1, 201.222.5.2, 201.222.5.9, and 201.222.5.10. The interface is set to 'Logical' view. On the right, a 'Command Prompt' window is open, showing the configuration of the PC with IP 201.222.5.10 and the results of ping tests.

```
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection: (default port)

Link-local IPv6 Address . . . . . : FE80::201:C7FF:FE14:3164
IP Address. . . . . : 201.222.5.10
Subnet Mask . . . . . : 255.255.255.248
Default Gateway . . . . . : 0.0.0.0

C:\>ping 201.222.5.9

Pinging 201.222.5.9 with 32 bytes of data:

Reply from 201.222.5.9: bytes=32 time=1ms TTL=128
Reply from 201.222.5.9: bytes=32 time=3ms TTL=128
Reply from 201.222.5.9: bytes=32 time<1ms TTL=128
Reply from 201.222.5.9: bytes=32 time<1ms TTL=128

Ping statistics for 201.222.5.9:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milliseconds:
        Minimum = 0ms, Maximum = 3ms, Average = 1ms

C:\>ping 201.222.5.1

Pinging 201.222.5.1 with 32 bytes of data:

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

Ping statistics for 201.222.5.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

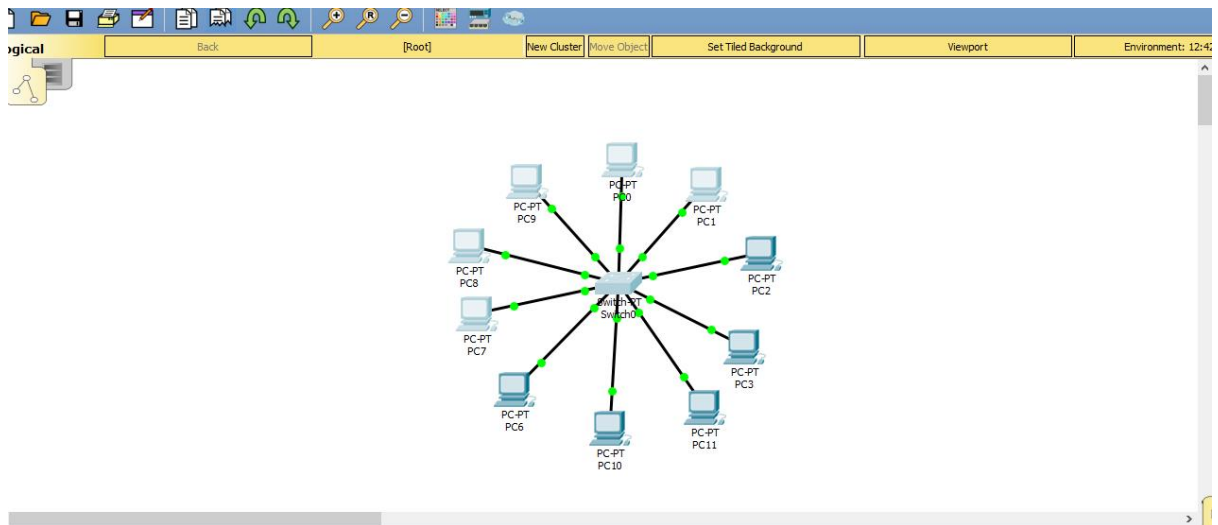
C:\>
```

## Tugas

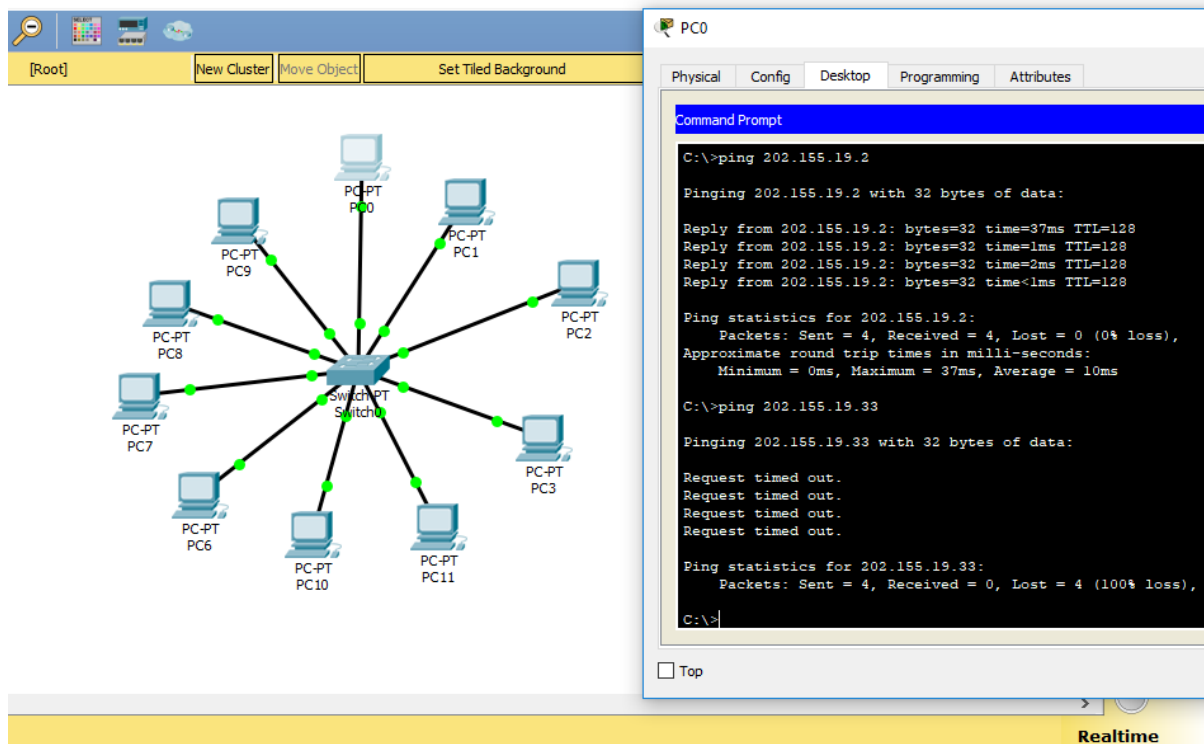
- Terdapat 5 subnet
- Subnet :  $2^3 = 8$  subnet
- Subnetmask :  
255.255.255.0  
11111111.11111111.11111111.00000000
- Subnetmask baru :  
11111111.11111111.11111111.11100000  
225.225.225.224
- Host :  
 $2^5 - 2 = 30$

NA	IP Awal	IP Akhir	Broadcast
202.155.19.0	202.155.19.1	202.155.19.30	202.155.19.31
202.155.19.32	202.155.19.33	202.155.19.62	202.155.19.63
202.155.19.64	202.155.19.65	202.155.19.94	202.155.19.95
202.155.19.96	202.155.19.97	202.155.19.126	202.155.19.127
202.155.19.128	202.155.19.129	202.155.19.158	202.155.19.159
202.155.19.160	202.155.19.161	202.155.19.190	202.155.19.191
202.155.19.192	202.155.19.193	202.155.19.222	202.155.19.223
202.155.19.224	202.155.19.225	202.155.19.254	202.155.19.255

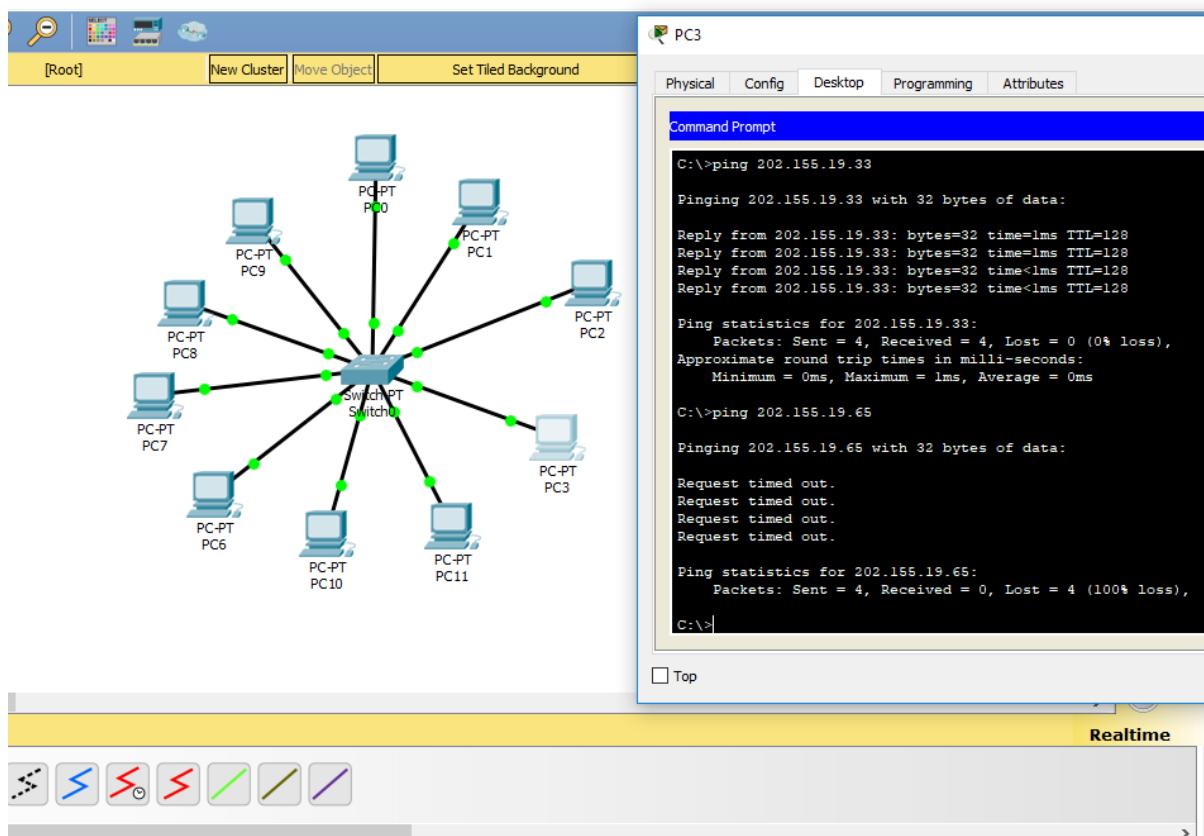
PC0 = 202.155.19.1  
PC1 = 202.155.19.2  
PC2 = 202.155.19.33  
PC3 = 202.155.19.34  
PC11 = 202.155.19.65  
PC10 = 202.155.19.66  
PC6 = 202.155.19.97  
PC7 = 202.155.19.98  
PC8 = 202.155.19.129  
PC9 = 202.155.19.130



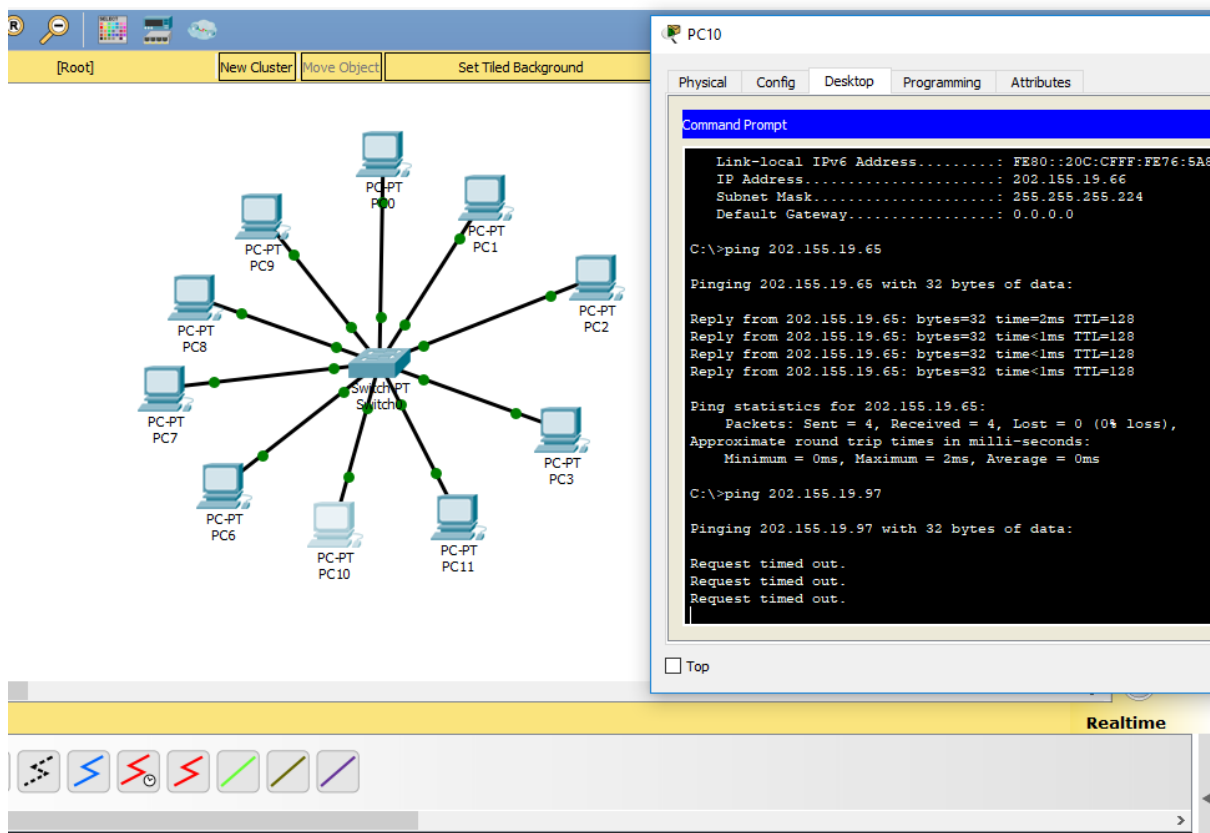
Melakukan ping dari PC yang memiliki IP 201.115.19.1 ke pc yang memiliki IP 201.115.19.2 dan IP 201.115.19.33. Dan saat ping ke PC yang ber IP 201.115.19.2 lancar tetapi saat ping ke PC yang ber IP201.115.19.33 gagal karena beberapa jaringan atau kelompok subnet



Melakukan ping dari PC yang memiliki IP 201.115.19.33 ke pc yang memiliki IP 201.115.19.34 dan IP 201.115.19.65. Dan saat ping ke PC yang ber IP 201.115.19.33 lancar tetapi saat ping ke PC yang ber IP 201.115.19.65 gagal karena beberapa jaringan atau kelompok subnet



Melakukan ping dari PC yang memiliki IP 201.115.19.65 ke pc yang memiliki IP 201.115.19.66 dan IP 201.115.19.97. Dan saat ping ke PC yang ber IP 201.115.19.66 lancar tetapi saat ping ke PC yang ber IP 201.115.19.97 gagal karena beberapa jaringan atau kelompok subnet



Melakukan ping dari PC yang memiliki IP 201.115.19.97 ke pc yang memiliki IP 201.115.19.98 dan IP 201.115.19.129. Dan saat ping ke PC yang ber IP 201.115.19.97 lancar tetapi saat ping ke PC yang ber IP 201.115.19.129 gagal karena beberapa jaringan atau kelompok subnet

The screenshot displays a network simulation environment. On the left, a central 'Switch-PT Switch0' is connected to eleven 'PC-PT' devices (PC0 through PC11) in a star topology. The interface includes a toolbar with icons for search, zoom, and object manipulation, along with buttons for 'New Cluster', 'Move Object', and 'Set Tiled Background'. On the right, a 'PC7' window is open, showing the 'Config' tab. The 'Command Prompt' within this window displays the following information:

```
Link-local IPv6 Address.....: FE80::207:ECFF:FE57:1635
IP Address.....: 202.155.19.98
Subnet Mask.....: 255.255.255.224
Default Gateway.....: 0.0.0.0

C:\>ping 202.155.19.97

Pinging 202.155.19.97 with 32 bytes of data:

Reply from 202.155.19.97: bytes=32 time<1ms TTL=128
Reply from 202.155.19.97: bytes=32 time=3ms TTL=128
Reply from 202.155.19.97: bytes=32 time<1ms TTL=128
Reply from 202.155.19.97: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.97:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 0ms

C:\>ping 202.155.19.129

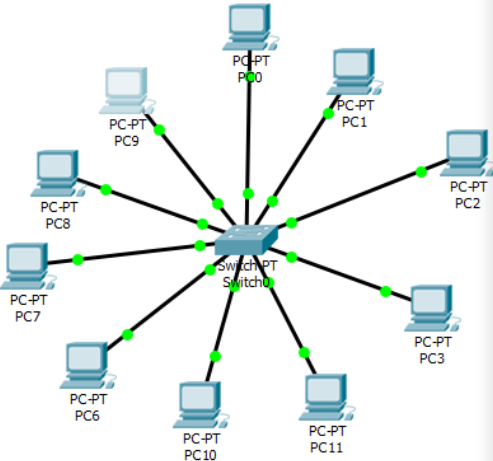
Pinging 202.155.19.129 with 32 bytes of data:

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

At the bottom of the interface, there is a 'Realtime' status bar and a taskbar showing the system clock as 16.07 on 08/03/2019.



[Root]New ClusterMove ObjectSet Tiled Background



PC9

PhysicalConfigDesktopProgrammingAttributes

Command Prompt

```
Link-local IPv6 Address.....: FE80::207:ECFF:FE4E:2515
IP Address.....: 202.155.19.130
Subnet Mask.....: 255.255.255.224
Default Gateway.....: 0.0.0.0

C:\>ping 202.155.19.129

Pinging 202.155.19.129 with 32 bytes of data:

Reply from 202.155.19.129: bytes=32 time=2ms TTL=128
Reply from 202.155.19.129: bytes=32 time<1ms TTL=128
Reply from 202.155.19.129: bytes=32 time=2ms TTL=128
Reply from 202.155.19.129: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.129:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 1ms


C:\>ping 202.155.19.1

Pinging 202.155.19.1 with 32 bytes of data:

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

☐ Top

Realtime



Automatically Choose Connection Type

