

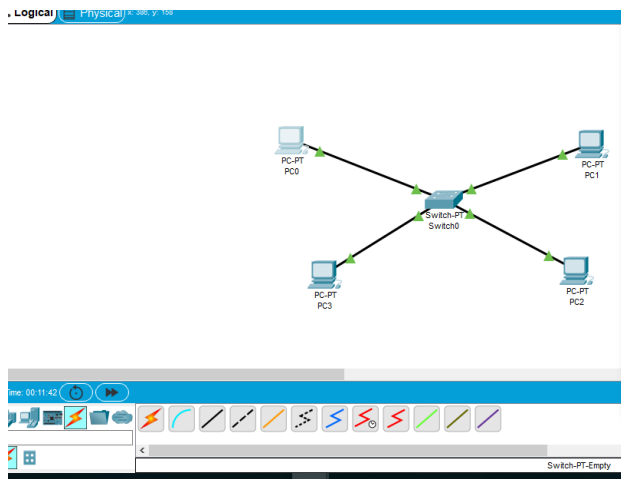
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MODUL 3

SUBNETTING

Kegiatan Praktikum

Kegiatan 1. Desain dan konfigurasi subnetting



Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 380, y: 158

PC0

Physical Config Desktop Programming Attributes

☐ DHCP ☒ Static

IP Address 201.222.5.1

Subnet Mask 255.255.255.248

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::2D0:97FF:FE08:DAA7

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MDS

Username

Password

Top

Time: 00:11:42

Switch-PT-Empty

17:51 08/03/2019

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 789, y: 157

PC1

Physical Config Desktop Programming Attributes

☐ DHCP ☒ Static

IP Address 201.222.5.2

Subnet Mask 255.255.255.248

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::20A:F3FF:FE53:DED9

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MDS

Username

Password

Top

Time: 00:11:49

Switch-PT-Empty

17:52 08/03/2019

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 434, y: 334

Time: 00:12:00

Switch-PT-Empty

PC3

Physical Config Desktop Programming Attributes

☐ DHCP ☒ Static

IP Address 201.222.5.9

Subnet Mask 255.255.255.248

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::201:42FF:FEBC:808E

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 762, y: 327

Time: 00:12:07

Switch-PT-Empty

PC2

Physical Config Desktop Programming Attributes

☐ DHCP ☒ Static

IP Address 201.222.5.10

Subnet Mask 255.255.255.248

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::206:2AFF:FE95:2653

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

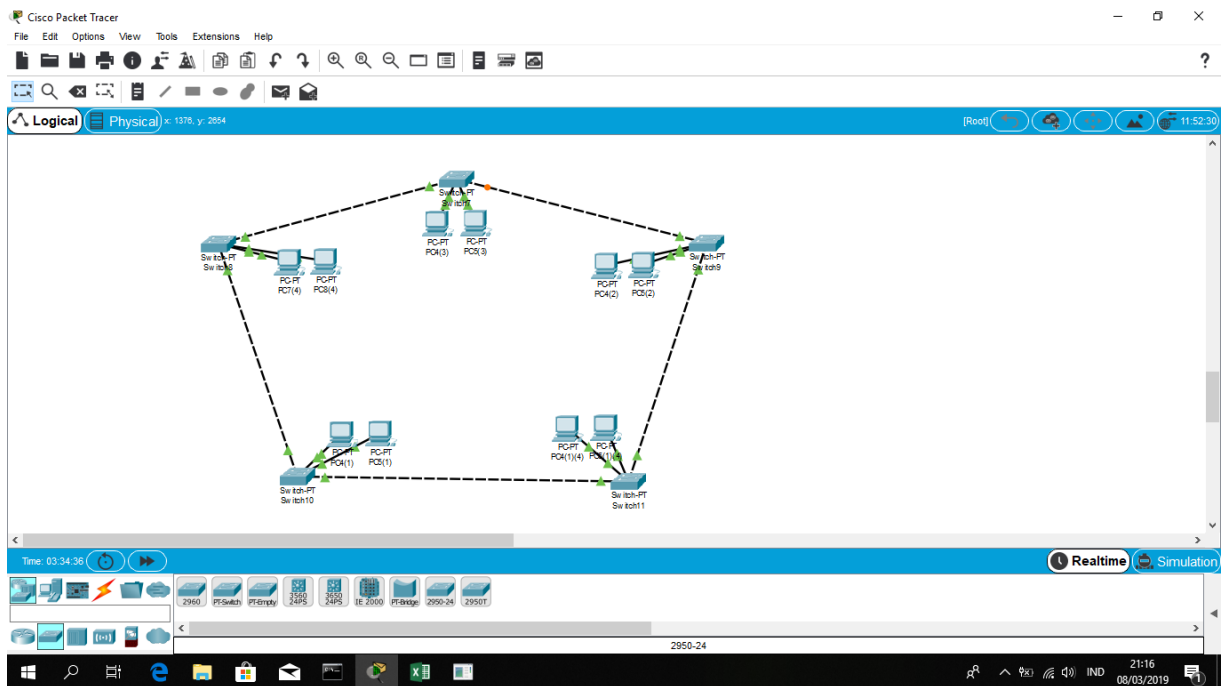
Username

Password

☐ Top

Tugas

#generic



Menentukan Subnet Mask dan Subnet Address

IP Address : 202.155.19.0/27

11111111 11111111 11111111 11100000

Subnet Mask : 255.255.255.224

1. Jumlah Subnet : $2^x = 2^3 = 8$
2. Jumlah Host / Subnet : $2^y - 2 = 2^5 - 2 = 32 - 2 = 30$
3. Block Subnet : $256 - 224 = 32$

4. Tabel Subnet

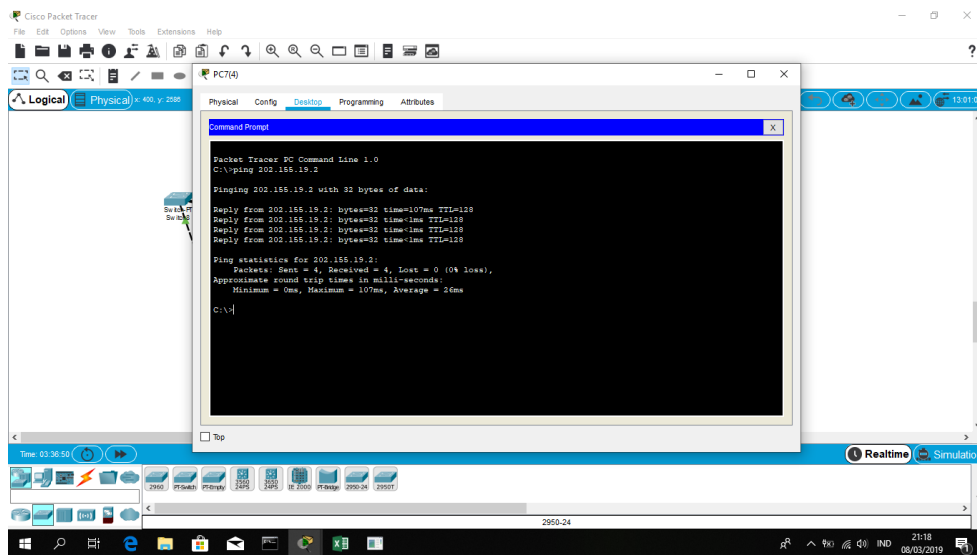
Netw ork	202.155.19.0	202.155.19.3 2	202.155.19.6 4	202.155.19.96	202.155.19.128	202.155.19.160	202.155.19.192	202.155.19.224
Host Min	202.155.19.1	202.155.19.3 3	202.155.19.6 5	202.155.19.97	202.155.19.129	202.155.19.161	202.155.19.193	202.155.19.225
Host Max	202.155.19.3 0	202.155.19.6 2	202.155.19.9 4	202.155.19.126	202.155.19.158	202.155.19.190	202.155.19.222	202.155.19.254
Broad cast	202.155.19.3 1	202.155.19.6 3	202.155.19.9 5	202.155.19.127	202.155.19.159	202.155.19.191	202.155.19.223	202.155.19.255

Keterangan Tabel :

1. Tabel subnet terdiri dari 8 Subnetting.
2. Hanya ada 7 Subnet yang bisa digunakan.
3. Subnet yang terakhir / yang di block hitam tidak bisa digunakan.
4. Setiap Subnetting tersedia 30 IP Address untuk user.

Melakukan tes antar komputer

1. Tes antar komputer di dalam satu switch
 - Melakukan ping dari PC dengan IP Address 202.155.19.1 ke PC dengan IP Address 202.155.19.2



2. Tes antar komputer yang ada di switch satu dengan komputer yang ada di switch lain
 - Melakukan ping dari PC dengan IP Address 202.155.19.38 ke PC dengan IP Address 202.155.19.1

