

IMAM HIDAYAT

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ACTIVITY 5

A. Kerjakan soal teori dibawah ini ! (bobot 20 point)

1. Jelaskan pengertian dari cisco packet tracer ?

Jawab :

Packet Tracer adalah sebuah software simulasi jaringan. Sebelum melakukan konfigurasi jaringan yang sesungguhnya (mengaktifkan fungsi masing-masing device hardware) terlebih dahulu dilakukan simulasi menggunakan software ini. Simulasi ini sangat bermanfaat jika membuat sebuah jaringan yang kompleks namun hanya memiliki komponen fisik yang terbatas.

2. Jelaskan sejarah secara singkat kenapa cisco packet tracer itu diciptakan dan siapa penciptanya ?

Jawab :

Packet Tracer adalah produk simulasi buatan Cisco System, vendor peralatan jaringan yang terkenal di dunia. Packet Tracer biasa digunakan untuk pelatihan dan pendidikan mengenai konfigurasi dan routing jaringan. Packet tracer dibuat oleh Cisco System untuk pembelajaran di Cisco System Academy. Namun disebarluaskan secara bebas untuk digunakan oleh umum.

Cisco atau tepatnya Cisco Systems adalah sebuah perusahaan yang didirikan pada tahun 1984 oleh dua orang eks-staf Stanford University, yang bernama Leonard Bosack dan Sandy K. Lerner. Bisnis utama Cisco meliputi berbagai perangkat networking, seperti router, bridge, hub, dan switch. Kisah tentang Cisco System dimulai sekitar tahun 1980 hingga 1981, yaitu setelah Xerox PARC (Palo Alto Research) menghibahkan beberapa komputer Alto dan Ethernet Card kepada Universitas Stanford.

3. sebutkan beberapa simulator jaringan komputer selain cisco packet tracer ?

Jawab :

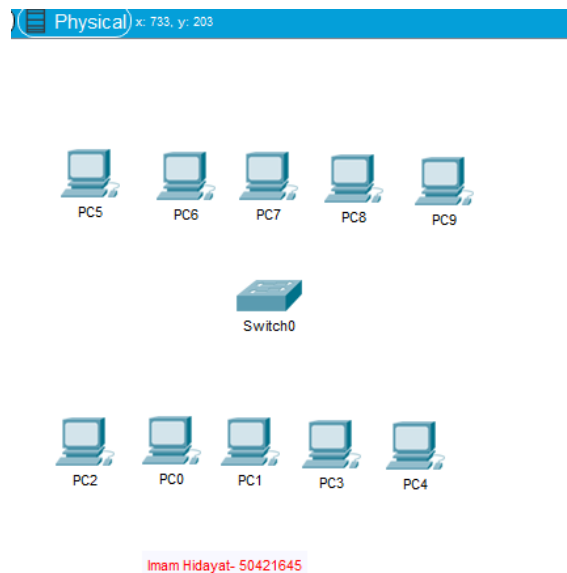
- | | |
|-----------------------------|-------------------------|
| - GNS3 | - Netnotep Simulator |
| - Cisco Aspire CCNA Edition | - Boson Netsim |
| - IPSims | - Virtualbox & Mikrotik |
| - iNetwork | |

Screenshoot

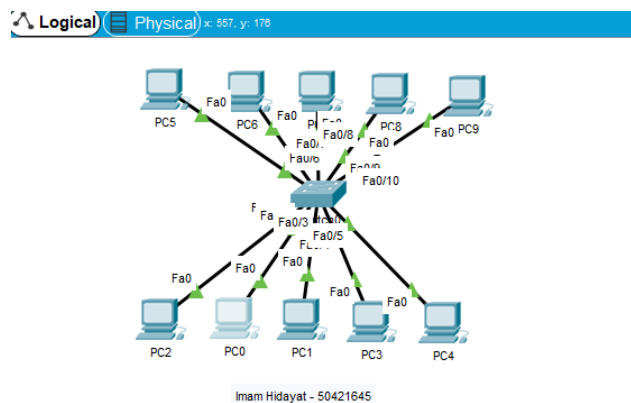
B. Kerjakan soal praktek dibawah ini

Activity 5.1

1. SS topologi sebelum dihubungkan kabel



2. SS topologi setelah dihubungkan kabel



3. SS Config IP PC Client = 5 PC

The image displays three screenshots of PC configuration windows, each showing the 'Desktop' tab with static IP configuration. The windows are for PC2, PC0, and PC1.

PC2 Configuration:

- Static IP:** IP Address: 192.168.1.2, Subnet Mask: 255.255.255.0, Default Gateway: 0.0.0.0, DNS Server: 0.0.0.0.
- IPv6 Configuration:** Static. IPv6 Address: (empty), Link Local Address: FE80::201:63FF:FE8E:6668, IPv6 Gateway: (empty), IPv6 DNS Server: (empty).
- 802.1X:** Use 802.1X Security: (unchecked), Authentication: MD5, Username: (empty).

PC0 Configuration:

- Static IP:** IP Address: 192.168.1.3, Subnet Mask: 255.255.255.0, Default Gateway: 0.0.0.0, DNS Server: 0.0.0.0.
- IPv6 Configuration:** Static. IPv6 Address: (empty), Link Local Address: (empty), IPv6 Gateway: (empty), IPv6 DNS Server: (empty).
- 802.1X:** Use 802.1X Security: (unchecked), Authentication: MD5, Username: (empty).

PC1 Configuration:

- Static IP:** IP Address: 192.168.1.4, Subnet Mask: 255.255.255.0, Default Gateway: 0.0.0.0, DNS Server: 0.0.0.0.
- IPv6 Configuration:** Static. IPv6 Address: (empty), Link Local Address: (empty), IPv6 Gateway: (empty), IPv6 DNS Server: (empty).
- 802.1X:** Use 802.1X Security: (unchecked), Authentication: MD5, Username: (empty).

PC3

Physical

Config

Desktop

Programming

Attributes

☐ DHCP
☒ Static

IP Address

192.168.1.5

Subnet Mask

255.255.255.0

Default Gateway

0.0.0.0

DNS Server

0.0.0.0

IPv6 Configuration

☐ DHCP
☐ Auto Config
☒ Static

IPv6 Address

Link Local Address

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MDS

Username

PC4

Physical

Config

Desktop

Programming

Attributes

☐ DHCP
☒ Static

IP Address

192.168.1.6

Subnet Mask

255.255.255.0

Default Gateway

0.0.0.0

DNS Server

0.0.0.0

IPv6 Configuration

☐ DHCP
☐ Auto Config
☒ Static

IPv6 Address

Link Local Address

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MDS

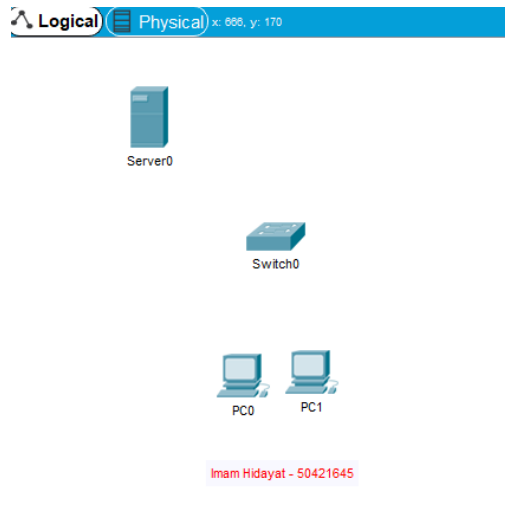
Username

4. SS hasil kirim simple PDU semua PC

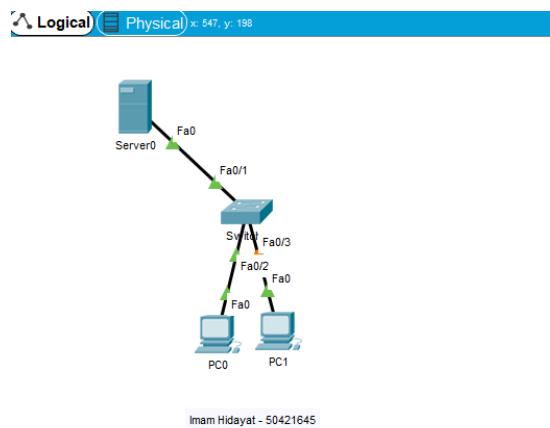
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC2	PC0	ICMP		0.000	N	4	(edit)	(delete)
	Successful	PC2	PC1	ICMP		0.000	N	5	(edit)	(delete)
	Successful	PC2	PC3	ICMP		0.000	N	6	(edit)	(delete)
	Successful	PC1	PC3	ICMP		0.000	N	7	(edit)	(delete)
	Successful	PC1	PC4	ICMP		0.000	N	8	(edit)	(delete)
	Successful	PC1	PC5	ICMP		0.000	N	9	(edit)	(delete)
	Successful	PC9	PC8	ICMP		0.000	N	10	(edit)	(delete)
	Successful	PC9	PC7	ICMP		0.000	N	11	(edit)	(delete)
	Successful	PC9	PC6	ICMP		0.000	N	12	(edit)	(delete)

Activity 5.2

1. SS topologi sebelum dihubungkan kabel



2. SS topologi setelah dihubungkan kabel



3. SS Config IP Server

The screenshot shows the configuration window for Server0. The window has tabs for Physical, Config, Services, Desktop, Programming, and Attributes. The Desktop tab is selected. Under the Desktop tab, there are two sections: IP Configuration and IPv6 Configuration. In the IP Configuration section, the Static radio button is selected, and the IP Address is set to 11.1.1.1, Subnet Mask to 255.0.0.0, Default Gateway to 0.0.0.0, and DNS Server to 0.0.0.0. In the IPv6 Configuration section, the Static radio button is selected, and the IPv6 Address is set to FE80::209:7CFF:FE9D:3A05, Link Local Address to FE80::209:7CFF:FE9D:3A05, IPv6 Gateway to 0.0.0.0, and IPv6 DNS Server to 0.0.0.0. At the bottom, there is a section for 802.1X configuration, which is currently unchecked. The window also has a "Top" button at the bottom left.

4. SS Config IP PC Client = 2 PC

PC0

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 11.1.1.2

Subnet Mask 255.0.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

PC1

Physical Config Desktop Programming Attributes

IP Configuration

☐ DHCP ☒ Static

IP Address 11.1.1.3

Subnet Mask 255.0.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

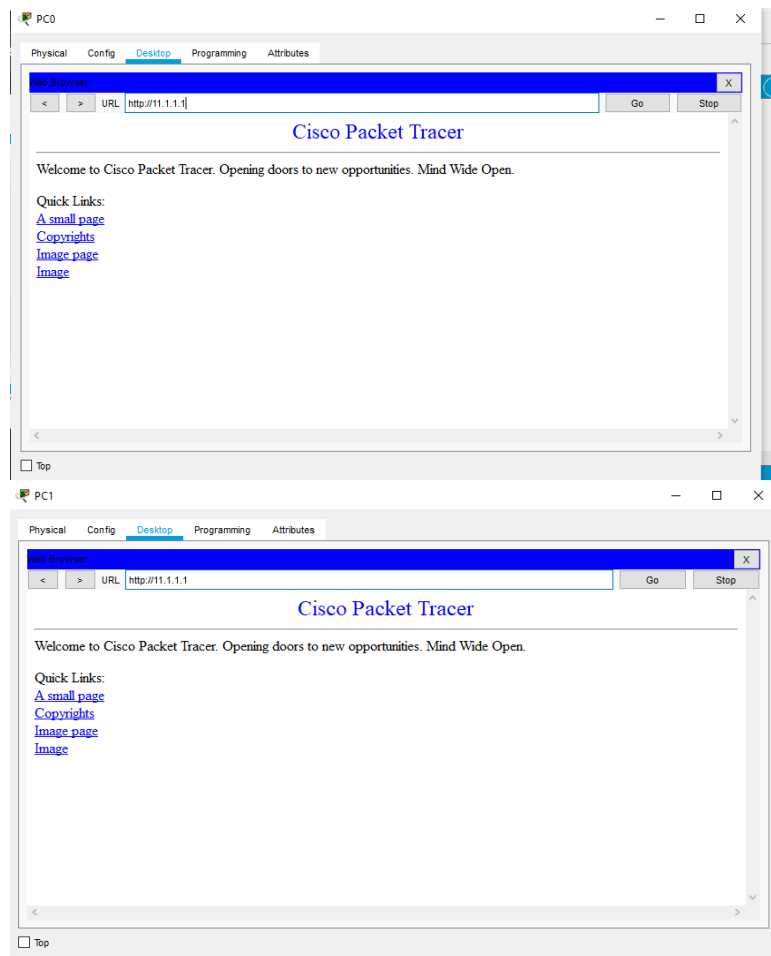
Authentication MDS

Username

Password

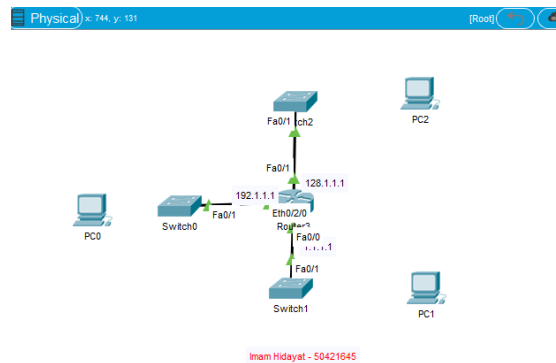
Top

5. SS Web Browser ketika akses IP Server = 2 PC

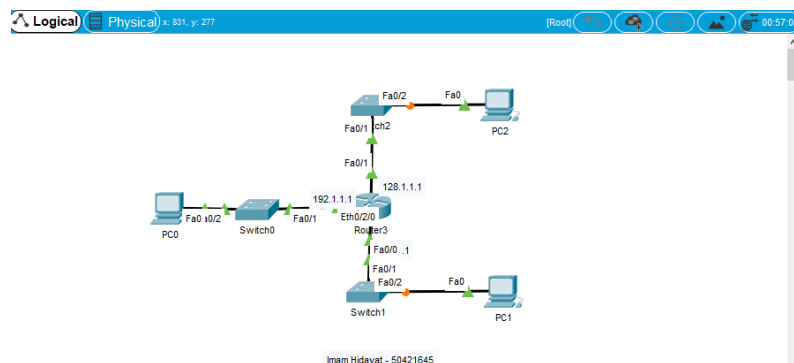


Activity 5.3

1. SS topologi sebelum dihubungkan kabel



2. SS topologi setelah dihubungkan kabel



3. SS Config IP PC Client = 3 PC

PC0

Physical Config Desktop Programming Attributes

☐ DHCP ☒ Static

IP Address: 192.1.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.1.1.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::201:43FF:FE9C:EC47

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

PC1

Physical

Config

Desktop

Programming

Attributes

☐ DHCP
 ☒ Static

IP Address: 1.1.1.2
 Subnet Mask: 255.0.0.0
 Default Gateway: 1.1.1.1
 DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP
 ☐ Auto Config
 ☒ Static

IPv6 Address: /
 Link Local Address: FE80::20C:CFFF:FE9C:B0EB
 IPv6 Gateway:
 IPv6 DNS Server:

802.1X

☐ Use 802.1X Security
 Authentication: MD5
 Username:
 Password:

☐ Top

PC2

Physical

Config

Desktop

Programming

Attributes

☐ DHCP
 ☒ Static

IP Address: 128.1.1.2
 Subnet Mask: 255.255.0.0
 Default Gateway: 128.1.1.1
 DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP
 ☐ Auto Config
 ☒ Static

IPv6 Address: /
 Link Local Address: FE80::201:97FF:FE82:3621
 IPv6 Gateway:
 IPv6 DNS Server:

802.1X

☐ Use 802.1X Security
 Authentication: MD5
 Username:
 Password:

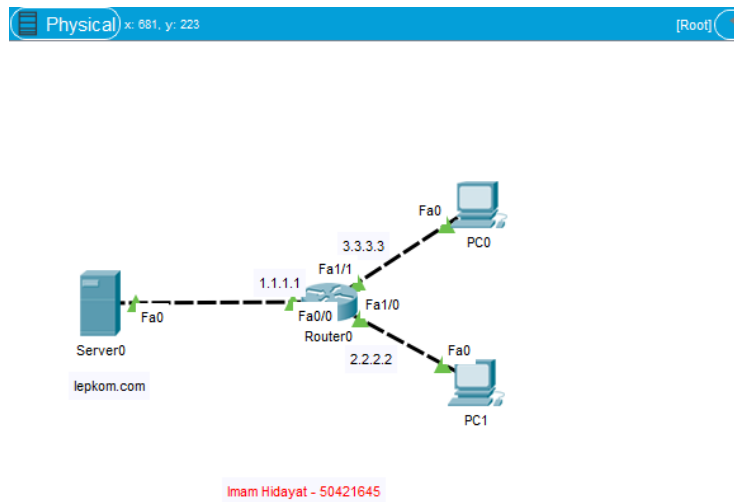
☐ Top

4. SS hasil kirim simple PDU semua PC

ire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC1	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC0	PC2	ICMP		0.000	N	1	(edit)	(delete)

Activity 5.4

1. SS topologi



2. SS Config IP PC Client = 2 PC

PC0

Physical Config Desktop Programming Attributes

☐ DHCP ☒ Static

IP Address: 3.3.3.4

Subnet Mask: 255.0.0.0

Default Gateway: 3.3.3.3

DNS Server: 1.1.1.2

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::20C:85FF:FE32:D69E

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

Top

PC1

Physical Config Desktop Programming Attributes

☐ DHCP ☒ Static

IP Address: 2.2.2.3

Subnet Mask: 255.0.0.0

Default Gateway: 2.2.2.2

DNS Server: 1.1.1.2

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:58FF:FE81:ADA6

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

Top

3. SS Web Browser ketika akses IP Server = 2 PC

