

Jaringan komputer



Nama : Wahyuni Oktarina
Nim : 09011181419027
Kelas : Sk4A
Nama dosen : Dr.Deris Setiawan, M.T.
Jurusan : Sistem Komputer
Fakultas : Ilmu Komputer

UNIVERSITAS SRIWIJAYA

TAHUN AJARAN 2016

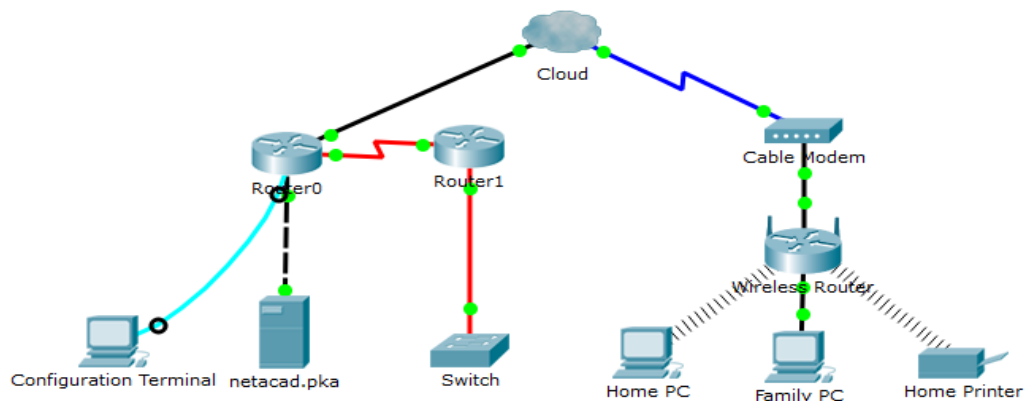
1. Identifying Network Devices and Cabling

No	Manufacturer	Model	Type	Functionality	Physical Characteristics
1.	Cisco	1941	Router	Router	2 Gigabit Ethernet Ports 2 EHWIC slots 2 CompactFlash slots 1 ISM slot 2 Console ports: USB, RJ-45
2.	Cisco	Sf302-08pp	Switch	Switch	8x 10/100 rj45 2x combo gigabit puerto consola
3.	Huawei	G532e	Modem	Router Switch Access	4 slots fast ethernet 1 puerto ADSL 1 access point
4.	Tp-link	T3700g-28tq	Switch	Switch	24/10/100/1000 mbps rj45 1 console port Auto negociasion
5.	Tp-link	Tlmr3420	Router	Router	USB wireless router 1 WAN port 4 LAN ports autonegorotation
6.	Tp-link	Tiwa701n	Acces	Acces	150 mbps speed

		d	point	point	Puerto console
--	--	---	-------	-------	----------------

2. Connecting a wired and wireless LAN

- Part 1,2 dan 3



*Part 4 : Verify Connections

Step 1 : a) Open the Family PC command prompt and ping netacad.pka.

```

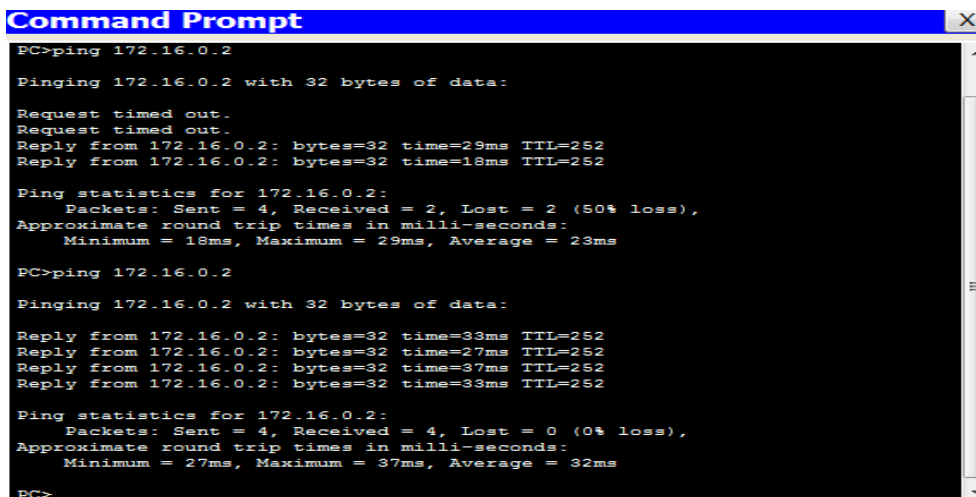
Command Prompt
Packet Tracer PC Command Line 1.0
PC>ping netacad.pka
Pinging 10.0.0.254 with 32 bytes of data:
Reply from 10.0.0.254: bytes=32 time=12ms TTL=126
Reply from 10.0.0.254: bytes=32 time=12ms TTL=126
Reply from 10.0.0.254: bytes=32 time=27ms TTL=126
Reply from 10.0.0.254: bytes=32 time=11ms TTL=126
Ping statistics for 10.0.0.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 11ms, Maximum = 27ms, Average = 15ms
PC>

```

b) Open the Web Browser and the web address <http://netacad.pka>.



Step 2 : Open the **Home PC** command prompt and ping the **Switch IP** address of to verify the connection.

A screenshot of a Windows Command Prompt window. The title bar reads "Command Prompt" with a close button (X) on the right. The window contains the following text:

```
PC>ping 172.16.0.2
Pinging 172.16.0.2 with 32 bytes of data:

Request timed out.
Request timed out.
Reply from 172.16.0.2: bytes=32 time=29ms TTL=252
Reply from 172.16.0.2: bytes=32 time=18ms TTL=252

Ping statistics for 172.16.0.2:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 18ms, Maximum = 29ms, Average = 23ms

PC>ping 172.16.0.2
Pinging 172.16.0.2 with 32 bytes of data:

Reply from 172.16.0.2: bytes=32 time=33ms TTL=252
Reply from 172.16.0.2: bytes=32 time=27ms TTL=252
Reply from 172.16.0.2: bytes=32 time=37ms TTL=252
Reply from 172.16.0.2: bytes=32 time=33ms TTL=252

Ping statistics for 172.16.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 27ms, Maximum = 37ms, Average = 32ms

PC>
```

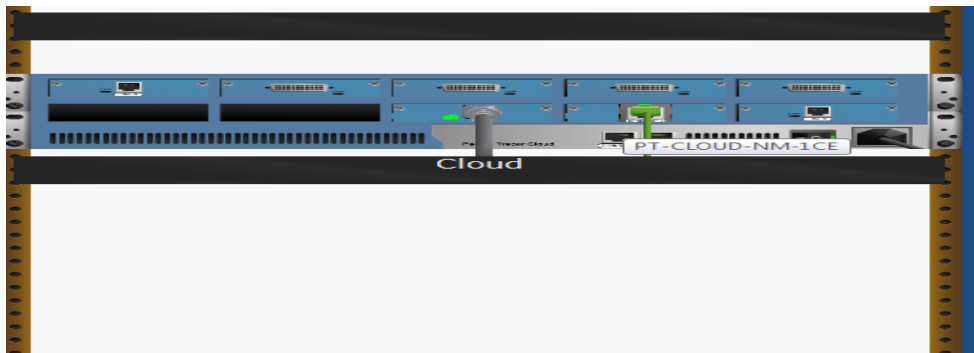
Step 3 : Show ip interface brief to view interface statuses.

```
Terminal
to up
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 172.31.0.2 (Serial0/0/0) is up: new adjacency
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%DHCPD-4-PING_CONFLICT: DHCP address conflict: server pinged 192.168.2.1.

Router0>show ip interface brief
Interface          IP-Address      OK? Method Status
Protocol
FastEthernet0/0    192.168.2.1     YES manual up
FastEthernet0/1    10.0.0.1        YES manual up
Serial0/0/0        172.31.0.1      YES manual up
Serial0/0/1        unassigned      YES unset  administratively down down
Vlan1              unassigned      YES unset  administratively down down
Router0>
```

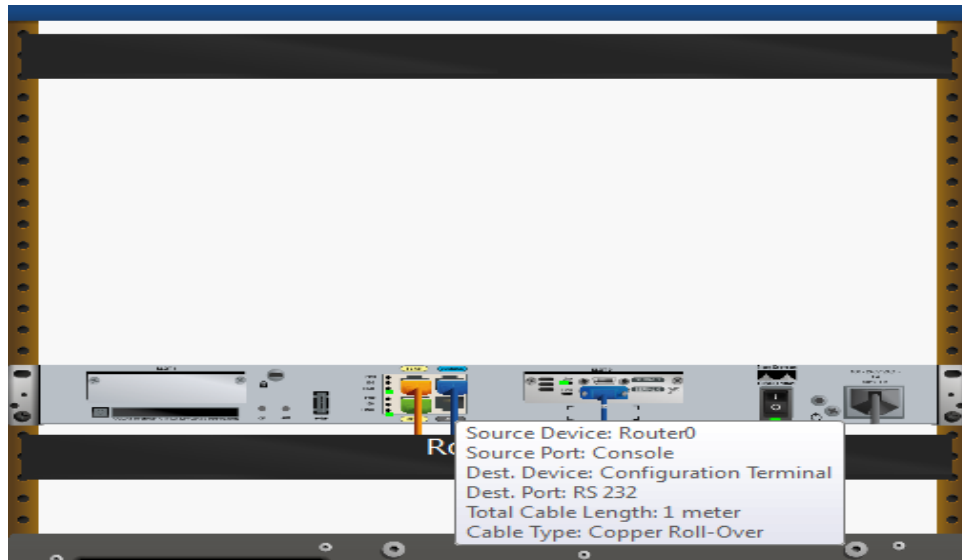
Part 5: Examine the Physical Topology

Step 1: Examine the Cloud



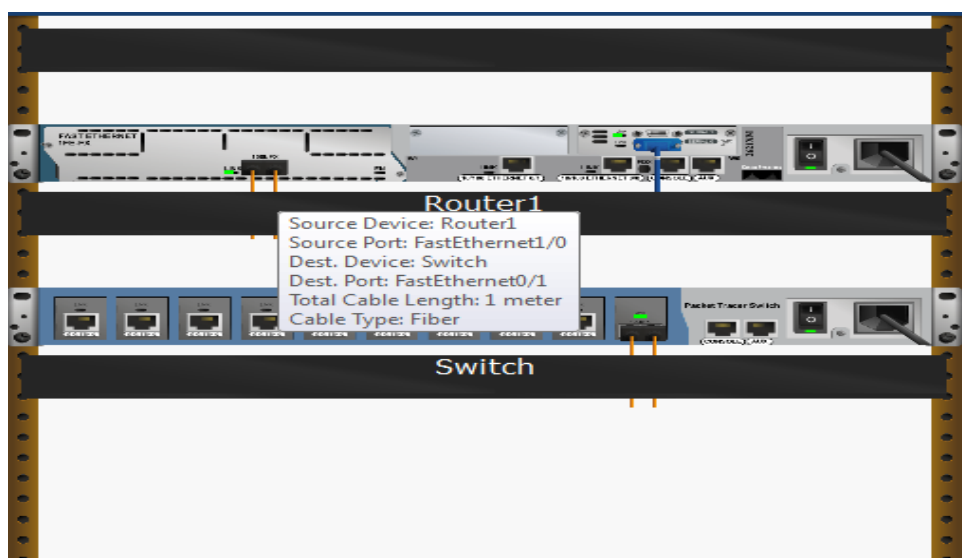
Banyak kabel yang tersambung ke switch di blue rack adalah 2

Step 2: Examine the Primary Network



Yang berada di table of the right of blue rack adalah Configuration Terminal

Step 3: Examine the Secondary Network



Kabel serat ada berpasangan, satu untuk mengirimkan dan yang satu untuk menerima

Step 4: Examine the Home Network



Karena jaringan rumah biasanya tidak memiliki rak