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Kelas : TI 3

Manajemen Router

Praktik 1

- Pilih device router, tempatkan pada editor gambar, seperti pada gambar berikut :



1944
Router

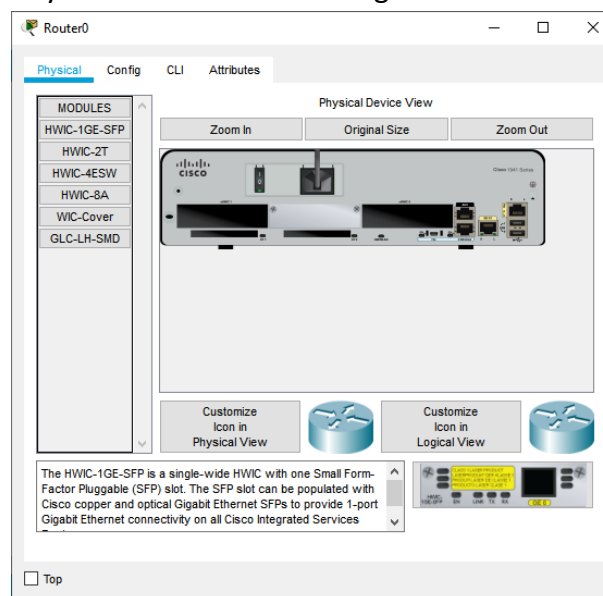
Port	Link	VLAN	IP Address	IPv6 Address	MAC Address
GigabitEthernet0/0	Down	--	<not set>	<not set>	0001.434A.8E01
GigabitEthernet0/1	Down	--	<not set>	<not set>	0001.434A.8E02
Vlan1	Down	1	<not set>	<not set>	00D0.FF84.7392

Hostname: Router

Physical Location: Intercity, Home City, Corporate Office, Main Wiring Closet

○ Konfigurasi Router

- Klik Router0
- Tap Physical
- Modul beberapa pilihan untuk menambah modul (Interface)
- Physical Device View: berisi gambar fisik router seperti terlihat pada



gambar

○ CLI (Command Line Interface)

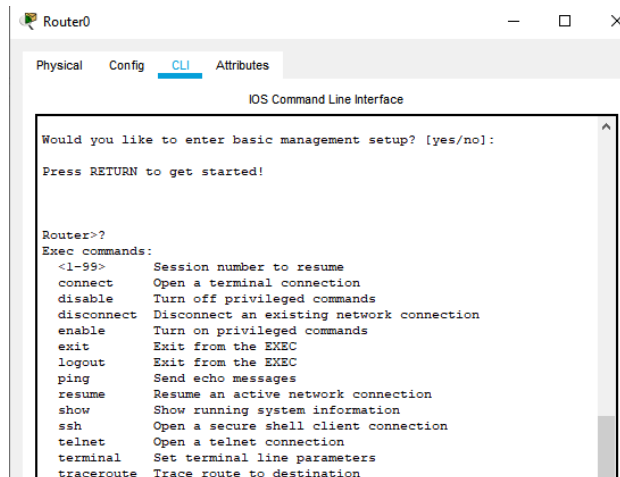
IOS Command Line Interface adalah untuk melihat proses boot pada saat router tersebut dihidupkan dan melakukan perintah dengan mengetikkan secara teks.

○ Login dengan CLI

Router > enable

```
Router>enable
Router#
```

- Melihat petunjuk perintah



- Memberikan nama host

```
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname LAB_JARKOM
LAB_JARKOM(config)#exit
LAB_JARKOM#
%SYS-5-CONFIG_I: Configured from console by console
```

- Menampilkan konfigurasi yang tersimpan ke dalam RAM

```
LAB_JARKOM#show running-config
Building configuration...

Current configuration : 614 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname LAB_JARKOM
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
--More--
```

- Melihat versi IOS software

```
LAB_JARKOM#show version
Cisco IOS Software, C1900 Software (C1900-UNIVERSALK9-M), Version
15.1(4)M4, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 23-Feb-11 14:19 by pt_team

ROM: System Bootstrap, Version 15.1(4)M4, RELEASE SOFTWARE (fc1)
cisco1941 uptime is 11 minutes, 33 seconds
System returned to ROM by power-on
System image file is "flash0:c1900-universalk9-mz.SPA.151-1.M4.bin"
Last reload type: Normal Reload

This product contains cryptographic features and is subject to United
States and local country laws governing import, export, transfer and
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use
encryption.
Importers, exporters, distributors and users are responsible for
compliance with U.S. and local country laws. By using this product
you
agree to comply with applicable laws and regulations. If you are
unable
to comply with U.S. and local laws, return this product immediately.
```

- Menyimpan konfigurasi ke NVRAM

```
LAB_JARKOM#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
LAB_JARKOM#
```

- Melihat konfigurasi

```
LAB_JARKOM#show startup-config
Using 614 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname LAB_JARKOM
!
!
!
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
!
!
!
--More--
```

Ctrl+F6 to exit CLI focus

Copy Paste

- Menambahkan password

```
LAB_JARKOM(config)#enable password akakom
LAB_JARKOM(config)#exit
LAB_JARKOM#
%SYS-5-CONFIG_I: Configured from console by console
```

Ctrl+F6 to exit CLI focus

Copy Paste

- Menguji login menggunakan password

```
LAB_JARKOM#disable
LAB_JARKOM>enable
Password:
```

- Mengenkripsi password

```
LAB_JARKOM#configure t
Enter configuration commands, one per line. End with CNTL/Z.
LAB_JARKOM(config)#service password-encryption
LAB_JARKOM(config)#exit
LAB_JARKOM#
%SYS-5-CONFIG_I: Configured from console by console
LAB_JARKOM#show running-config
^
% Invalid input detected at '^' marker.

LAB_JARKOM#show running-config
Building configuration...

Current configuration : 659 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
```

- Memberikan IP address pada port FastEthernet0/0

```
LAB_JARKOM(config)#interface GigabitEthernet0/0
LAB_JARKOM(config-if)#ip address 192.168.10.1 225.225.225.0
Bad mask 0xE1E1E100 for address 192.168.10.1
LAB_JARKOM(config-if)#
```

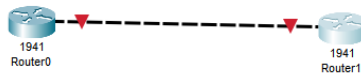
- Mengaktifkan port FastEthernet0/0

```
LAB_JARKOM(config-if)#no shutdown

LAB_JARKOM(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
```

Tugas

1. Hubungkan dua router seperti pada gambar, hubungkan FastEthernet0/0 Router0 ke FastEthernet0/0 dengan kabel Copper Cross-Over.



2. Tambahkan, Konfigurasi Router1 Nama host : LAB_PEMROGRAMAN

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname
% Incomplete command.
Router(config)#
Router(config)#hostname
% Incomplete command.
Router(config)#hostname LAB_PEMROGRAMAN
LAB_PEMROGRAMAN(config)#exit
LAB_PEMROGRAMAN#
%SYS-5-CONFIG_I: Configured from console by console
```

Ctrl+F6 to exit CLI focus

Copy Paste

3. Tambahkan konfigurasi FastEthernet0/0 dengan IP address 192.168.10.2 255.255.255.0 tambahkan konfigurasi.

```
LAB_PEMROGRAMAN#configure t
Enter configuration commands, one per line. End with CNTL/Z.
LAB_PEMROGRAMAN(config)#interface GigabitEthernet0/0
LAB_PEMROGRAMAN(config-if)#ip address 192.168.10.2 255.255.255.0
LAB_PEMROGRAMAN(config-if)#no shutdown

LAB_PEMROGRAMAN(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
LAB_PEMROGRAMAN(config-if)#
```

4. Lakukan uji koneksi dengan PING, amati hasilnya

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num
	Failed	Router1	Router1	ICMP		0.000	N	5
	Failed	Router0	Router0	ICMP		0.000	N	6