

Laporan Resmi Workshop Administrasi Jaringan

– Pretest –



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RIP

Konfigurasi Core Router

Hostname	Core Router
IP Address	192.168.1.2 (Fa0/0) 192.168.7.2 (Gig9/0) 192.168.2.1 (Gig7/0)
Subnet mask	255.255.255.0
Gateway	192.168.2.2 192.168.7.1
DNS Server	192.168.9.53

Routing Table Core-Router

Network Destination	Netmask	Gateway	Interface	Metric
192.168.1.0	255.255.255.0		Fa0/0	0
192.168.2.0	255.255.255.0		Gig7/0	0
192.168.3.0	255.255.255.0	192.168.2.2	Gig7/0	1
192.168.4.0	255.255.255.0	192.168.2.2	Gig7/0	1
192.168.5.0	255.255.255.0	192.168.2.2	Gig7/0	1
192.168.6.0	255.255.255.0	192.168.2.2	Gig7/0	1
192.168.7.0	255.255.255.0		Gig9/0	0
192.168.9.0	255.255.255.0	192.168.7.1	Gig9/0	1

Konfigurasi Router 8

Hostname	Router 8
IP Address	192.168.7.1 (Gig0/0/0) 192.168.9.1 (Gig0/0/1)
Subnet mask	255.255.255.0
Gateway	192.168.7.2
DNS Server	192.168.9.53

Routing Table Router 8

Network Destination	Netmask	Gateway	Interface	Metric
192.168.1.0	255.255.255.0	192.168.7.2	Gig0/0/0	1
192.168.2.0	255.255.255.0	192.168.7.2	Gig0/0/0	1
192.168.3.0	255.255.255.0	192.168.7.2	Gig0/0/0	1
192.168.4.0	255.255.255.0	192.168.7.2	Gig0/0/0	1
192.168.5.0	255.255.255.0	192.168.7.2	Gig0/0/0	1
192.168.6.0	255.255.255.0	192.168.7.2	Gig0/0/0	1
192.168.7.0	255.255.255.0		Gig0/0/0	0
192.168.9.0	255.255.255.0		Gig0/0/1	0

Konfigurasi Distribution Router

Hostname	Distribution Router
IP Address	192.168.2.2 (Gig6/0) 192.168.3.2 (Fa0/0) 192.168.4.2 (Fa1/0)
Subnet mask	255.255.255.0
Gateway	192.168.2.1 192.168.3.1 192.168.4.1
DNS Server	192.168.9.53

Routing Table Distribution Router

Network Destination	Netmask	Gateway	Interface	Metric
192.168.1.0	255.255.255.0	192.168.2.1	Gig6/0	1
192.168.2.0	255.255.255.0		Gig6/0	0
192.168.3.0	255.255.255.0		Fa0/0	0
192.168.4.0	255.255.255.0		Fa1/0	0
192.168.5.0	255.255.255.0	192.168.3.1	Fa0/0	1
192.168.6.0	255.255.255.0	192.168.4.1	Fa1/0	1
192.168.7.0	255.255.255.0	192.168.2.1	Gig6/0	1
192.168.9.0	255.255.255.0	192.168.2.1	Gig6/0	1

Konfigurasi Access Router A-1

Hostname	Access Router A-1
IP Address	192.168.3.1 (Gig0/0) 192.168.5.1 (Gig0/1)
Subnet mask	255.255.255.0
Gateway	192.168.3.2
DNS Server	192.168.9.53

Routing Table Access Router A-1

Network Destination	Netmask	Gateway	Interface	Metric
192.168.1.0	255.255.255.0	192.168.3.2	Gig0/0	1
192.168.2.0	255.255.255.0	192.168.3.2	Gig0/0	1
192.168.3.0	255.255.255.0		Gig0/0	0
192.168.4.0	255.255.255.0	192.168.3.2	Gig0/0	1
192.168.5.0	255.255.255.0		Gig0/1	0
192.168.6.0	255.255.255.0	192.168.3.2	Gig0/0	1
192.168.7.0	255.255.255.0	192.168.3.2	Gig0/0	1
192.168.9.0	255.255.255.0	192.168.3.2	Gig0/0	1

Konfigurasi Access Router A-2

Hostname	Access Router A-2
IP Address	192.168.4.1 (Gig0/0) 192.168.6.1 (Gig0/1)
Subnet mask	255.255.255.0
Gateway	192.168.4.2
DNS Server	192.168.9.53

Routing Table Access Router A-2

Network Destination	Netmask	Gateway	Interface	Metric
192.168.1.0	255.255.255.0	192.168.4.2	Gig0/0	1
192.168.2.0	255.255.255.0	192.168.4.2	Gig0/0	1
192.168.3.0	255.255.255.0	192.168.4.2	Gig0/0	0
192.168.4.0	255.255.255.0		Gig0/0	1
192.168.5.0	255.255.255.0	192.168.4.2	Gig0/0	0
192.168.6.0	255.255.255.0		Gig0/1	1
192.168.7.0	255.255.255.0	192.168.4.2	Gig0/0	1
192.168.9.0	255.255.255.0	192.168.4.2	Gig0/0	1

Konfigurasi Main Web Server

Hostname	<u>www.jarkom.org</u>
IP Address	192.168.9.80
Subnet mask	255.255.255.0
Gateway	192.168.9.1
DNS Server	192.168.9.53

Konfigurasi DNS Server

Hostname	ns.jarkom.org
IP Address	192.168.9.53
Subnet mask	255.255.255.0
Gateway	192.168.9.1
DNS Server	192.168.9.53

Konfigurasi DHCP Server A-2

Hostname	dhcp-a2.jarkom.org
IP Address	192.168.6.4
Subnet mask	255.255.255.0
Gateway	192.168.6.1
DNS Server	192.168.9.53

Konfigurasi PC0

Hostname	
IP Address	192.168.5.3
Subnet mask	255.255.255.0
Gateway	192.168.5.1
DNS Server	192.168.9.53

Konfigurasi PC1

Hostname	
IP Address	192.168.5.2
Subnet mask	255.255.255.0
Gateway	192.168.5.1
DNS Server	192.168.9.53

Konfigurasi PC0(2)

Hostname	
IP Address	192.168.6.2
Subnet mask	255.255.255.0
Gateway	192.168.6.1
DNS Server	192.168.9.53

Konfigurasi PC1(2)

Hostname	
IP Address	192.168.6.3
Subnet mask	255.255.255.0
Gateway	192.168.6.1
DNS Server	192.168.9.53

Konfigurasi AP-1

Hostname	AP-1
IP Address	
Subnet mask	255.255.255.0
Gateway	192.168.5.1
DNS Server	192.168.9.53
WLAN Security	WPA2-PSK
SSID	Fajrul
SSID Key	87654321

Konfigurasi AP-2

Hostname	AP-2
IP Address	
Subnet mask	255.255.255.0
Gateway	192.168.6.1
DNS Server	192.168.9.53
WLAN Security	WPA2-PSK
SSID	Falah
SSID Key	12345678

PC0

Ping:

```
C:\>ping www.jarkom.org

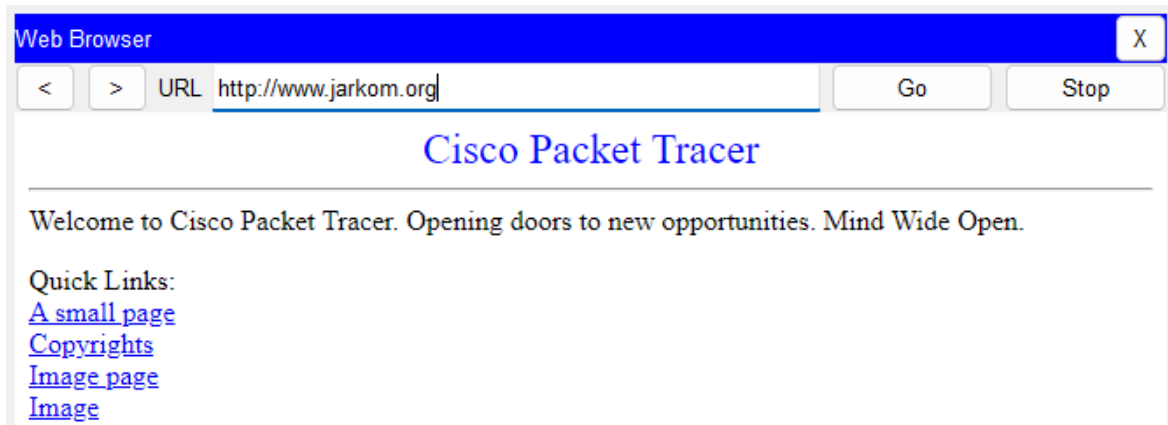
Pinging 192.168.9.80 with 32 bytes of data:

Reply from 192.168.9.80: bytes=32 time=14ms TTL=124
Reply from 192.168.9.80: bytes=32 time<1ms TTL=124
Reply from 192.168.9.80: bytes=32 time<1ms TTL=124
Reply from 192.168.9.80: bytes=32 time<1ms TTL=124

Ping statistics for 192.168.9.80:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 14ms, Average = 3ms

C:\>
```

Browser:



PC0(2)

Ping:

```
C:\>ping www.jarkom.org

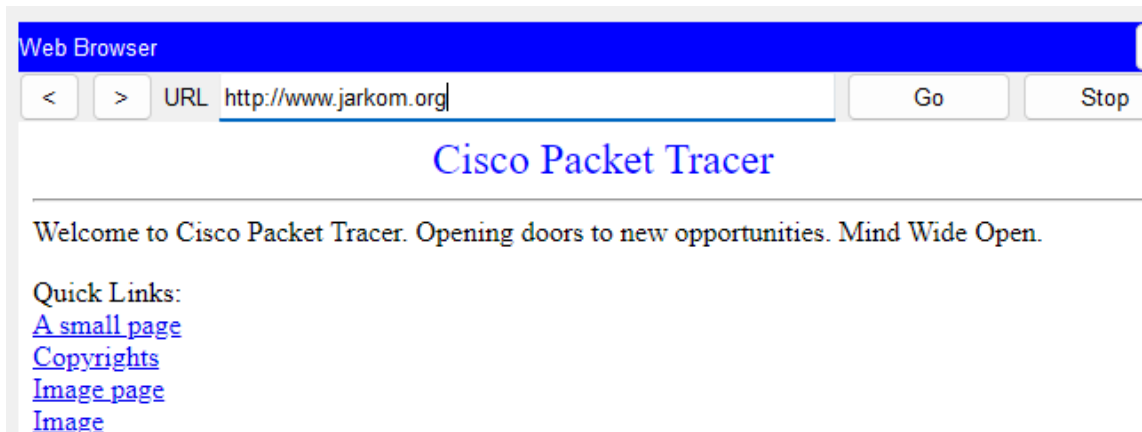
Pinging 192.168.9.80 with 32 bytes of data:

Reply from 192.168.9.80: bytes=32 time<1ms TTL=124
Reply from 192.168.9.80: bytes=32 time<1ms TTL=124
Reply from 192.168.9.80: bytes=32 time<1ms TTL=124
Reply from 192.168.9.80: bytes=32 time<1ms TTL=124

Ping statistics for 192.168.9.80:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Browser:



Static

Konfigurasi Core Router

Hostname	Core Router
IP Address	192.168.1.1 (Fa0/0) 192.168.7.1 (Gig9/0) 192.168.2.1 (Gig7/0)
Subnet mask	255.255.255.0
Gateway	192.168.2.2 192.168.7.2
DNS Server	192.168.9.53

Routing Table Core-Router

Network Destination	Netmask	Gateway	Interface	Metric
192.168.1.0	255.255.255.0		Fa0/0	0
192.168.2.0	255.255.255.0		Gig7/0	0
192.168.3.0	255.255.255.0	192.168.2.2	Gig7/0	1
192.168.4.0	255.255.255.0	192.168.2.2	Gig7/0	1
192.168.5.0	255.255.255.0	192.168.2.2	Gig7/0	1
192.168.6.0	255.255.255.0	192.168.2.2	Gig7/0	1
192.168.7.0	255.255.255.0		Gig9/0	0
192.168.9.0	255.255.255.0	192.168.7.2	Gig9/0	1

Konfigurasi Router 8

Hostname	Router 8
IP Address	192.168.7.2 (Gig0/0/0) 192.168.9.1 (Gig0/0/1)
Subnet mask	255.255.255.0
Gateway	192.168.7.1
DNS Server	192.168.9.53

Routing Table Router 8

Network Destination	Netmask	Gateway	Interface	Metric
192.168.1.0	255.255.255.0	192.168.7.1	GigabitEthernet0/0/0	1
192.168.2.0	255.255.255.0	192.168.7.1	GigabitEthernet0/0/0	1
192.168.3.0	255.255.255.0	192.168.7.1	GigabitEthernet0/0/0	1
192.168.4.0	255.255.255.0	192.168.7.1	GigabitEthernet0/0/0	1
192.168.5.0	255.255.255.0	192.168.7.1	GigabitEthernet0/0/0	1
192.168.6.0	255.255.255.0	192.168.7.1	GigabitEthernet0/0/0	1
192.168.7.0	255.255.255.0		GigabitEthernet0/0/0	0
192.168.9.0	255.255.255.0		GigabitEthernet0/0/1	0

Konfigurasi Distribution Router

Hostname	Distribution Router
IP Address	192.168.2.2 (GigabitEthernet6/0) 192.168.3.1 (FastEthernet0/0) 192.168.4.1 (FastEthernet1/0)
Subnet mask	255.255.255.0
Gateway	192.168.2.1 192.168.3.2 192.168.4.2
DNS Server	192.168.9.53

Routing Table Distribution Router

Network Destination	Netmask	Gateway	Interface	Metric
192.168.1.0	255.255.255.0	192.168.2.1	GigabitEthernet6/0	1
192.168.2.0	255.255.255.0		GigabitEthernet6/0	0
192.168.3.0	255.255.255.0		FastEthernet0/0	0
192.168.4.0	255.255.255.0		FastEthernet1/0	0
192.168.5.0	255.255.255.0	192.168.3.2	FastEthernet0/0	1
192.168.6.0	255.255.255.0	192.168.4.2	FastEthernet1/0	1
192.168.7.0	255.255.255.0	192.168.2.1	GigabitEthernet6/0	1
192.168.9.0	255.255.255.0	192.168.2.1	GigabitEthernet6/0	1

Konfigurasi Access Router A-1

Hostname	Access Router A-1
IP Address	192.168.3.2 (GigabitEthernet0/0) 192.168.5.1 (GigabitEthernet0/1)
Subnet mask	255.255.255.0
Gateway	192.168.3.1
DNS Server	192.168.9.53

Routing Table Access Router A-1

Network Destination	Netmask	Gateway	Interface	Metric
192.168.1.0	255.255.255.0	192.168.3.1	GigabitEthernet0/0	1
192.168.2.0	255.255.255.0	192.168.3.1	GigabitEthernet0/0	1
192.168.3.0	255.255.255.0		GigabitEthernet0/0	0
192.168.4.0	255.255.255.0	192.168.3.1	GigabitEthernet0/0	1
192.168.5.0	255.255.255.0		GigabitEthernet0/1	0
192.168.6.0	255.255.255.0	192.168.3.1	GigabitEthernet0/0	1
192.168.7.0	255.255.255.0	192.168.3.1	GigabitEthernet0/0	1
192.168.9.0	255.255.255.0	192.168.3.1	GigabitEthernet0/0	1

Konfigurasi Access Router A-2

Hostname	Access Router A-2
IP Address	192.168.4.2 (GigabitEthernet0/0) 192.168.6.1 (GigabitEthernet0/1)
Subnet mask	255.255.255.0
Gateway	192.168.4.1
DNS Server	192.168.9.53

Routing Table Access Router A-2

Network Destination	Netmask	Gateway	Interface	Metric
192.168.1.0	255.255.255.0	192.168.4.1	GigabitEthernet0/0	1
192.168.2.0	255.255.255.0	192.168.4.1	GigabitEthernet0/0	1
192.168.3.0	255.255.255.0	192.168.4.1	GigabitEthernet0/0	0
192.168.4.0	255.255.255.0		GigabitEthernet0/0	1
192.168.5.0	255.255.255.0	192.168.4.1	GigabitEthernet0/0	0
192.168.6.0	255.255.255.0		GigabitEthernet0/1	1
192.168.7.0	255.255.255.0	192.168.4.1	GigabitEthernet0/0	1
192.168.9.0	255.255.255.0	192.168.4.1	GigabitEthernet0/0	1

Konfigurasi Main Web Server

Hostname	<u>www.jarkom.org</u>
IP Address	192.168.9.80
Subnet mask	255.255.255.0
Gateway	192.168.9.1
DNS Server	192.168.9.53

Konfigurasi DNS Server

Hostname	ns.jarkom.org
IP Address	192.168.9.53
Subnet mask	255.255.255.0
Gateway	192.168.9.1
DNS Server	192.168.9.53

Konfigurasi DHCP Server A-2

Hostname	dhcp-a2.jarkom.org
IP Address	192.168.6.2
Subnet mask	255.255.255.0
Gateway	192.168.6.1
DNS Server	192.168.9.53

Konfigurasi PC0

Hostname	
IP Address	192.168.5.3
Subnet mask	255.255.255.0
Gateway	192.168.5.1
DNS Server	192.168.9.53

Konfigurasi PC1

Hostname	
IP Address	192.168.5.2
Subnet mask	255.255.255.0
Gateway	192.168.5.1
DNS Server	192.168.9.53

Konfigurasi PC0(2)

Hostname	
IP Address	192.168.6.5
Subnet mask	255.255.255.0
Gateway	192.168.6.1
DNS Server	192.168.9.53

Konfigurasi PC1(2)

Hostname	
IP Address	192.168.6.4
Subnet mask	255.255.255.0
Gateway	192.168.6.1
DNS Server	192.168.9.53

Konfigurasi AP-1

Hostname	AP-1
IP Address	
Subnet mask	255.255.255.0
Gateway	192.168.5.1
DNS Server	192.168.9.53
WLAN Security	WPA2-PSK
SSID	Fajrul
SSID Key	87654321

Konfigurasi AP-2

Hostname	AP-2
IP Address	
Subnet mask	255.255.255.0
Gateway	192.168.6.1
DNS Server	192.168.9.53
WLAN Security	WPA2-PSK
SSID	Falah
SSID Key	12345678

PC0

Ping:

```
C:\>ping www.jarkom.org

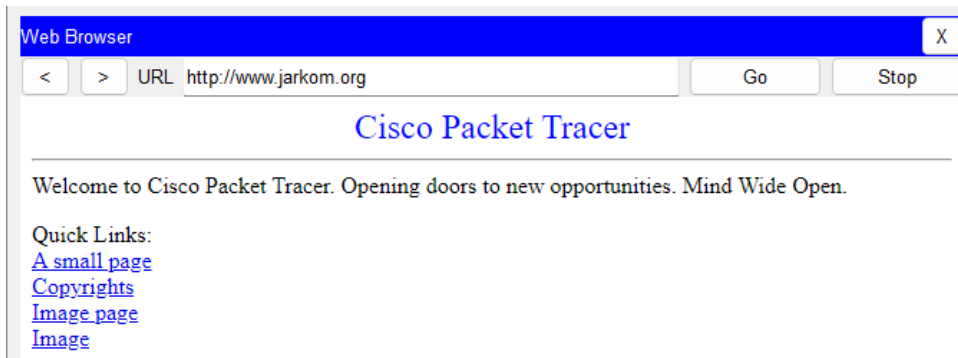
Pinging 192.168.9.80 with 32 bytes of data:

Reply from 192.168.9.80: bytes=32 time=14ms TTL=124
Reply from 192.168.9.80: bytes=32 time<1ms TTL=124
Reply from 192.168.9.80: bytes=32 time<1ms TTL=124
Reply from 192.168.9.80: bytes=32 time<1ms TTL=124

Ping statistics for 192.168.9.80:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 14ms, Average = 3ms

C:\>|
```

Browser:



PC0(2)

Ping:

```
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping www.jarkom.org

Pinging 192.168.9.80 with 32 bytes of data:

Reply from 192.168.9.80: bytes=32 time=13ms TTL=124
Reply from 192.168.9.80: bytes=32 time<1ms TTL=124
Reply from 192.168.9.80: bytes=32 time=1ms TTL=124
Reply from 192.168.9.80: bytes=32 time=10ms TTL=124

Ping statistics for 192.168.9.80:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 13ms, Average = 6ms

C:\>|
```

Browser:

