

**LAPORAN UAS
JARINGAN KOMPUTER**

UAS – 2



Disusun Oleh :
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**JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
2024/2025**

SOAL

PT Activity: 00:41:49

1. Konfigurasi alamat IP dan gateway setiap PC pada topologi dengan data sebagai berikut :

	Alamat	Subnet	Gateway
PC0 (4 poin)	192.168.0.23	255.255.255.0	192.168.0.1
PC1 (4 poin)	192.168.0.52	255.255.255.0	192.168.0.1
PC2 (4 poin)	172.16.0.251	255.255.0.0	172.16.0.1
PC3 (4 poin)	172.16.1.122	255.255.0.0	172.16.0.1

2. Konfigurasi Router0 dengan setting sebagai berikut :

- Ganti nama router dengan : **LPR2** (5 poin)
- Beri password tanpa enkripsi : **jarkom** (5 poin)
- Setting interface :
 - FastEthernet 0/0 : **192.168.0.1 /24** (5 poin)
 - FastEthernet 0/1 : **10.10.10.7 /28** (5 poin)
- Static route ke network **172.16.0.0 /16** melalui **10.10.10.9** (15 poin)
- Simpan Konfigurasi (5 poin)

3. Konfigurasi Router1 dengan setting sebagai berikut :

- Ganti nama router dengan : **JTI-Lt6** (5 poin)
- Beri password tanpa enkripsi : **jarkom** (5 poin)
- Setting interface :
 - FastEthernet 0/0 : **172.16.0.1 /16** (5 poin)
 - FastEthernet 0/1 : **10.10.10.9 /28** (5 poin)
- Static route ke network **192.168.0.0 /24** melalui **10.10.10.7** (15 poin)
- Simpan Konfigurasi (5 poin)

4. Pastikan konektivitas dari setiap PC pada topologi dengan melakukan ping dari PC0 ke PC lain. (4 poin)

Time Left: 00:41:49

Completion: 0/96*

☐ Top ☐ Dock 1/1

PENGERJAAN

- Konfigurasi alamat IP dan gateway setiap PC pada topologi dengan data sebagai berikut :

The image shows four screenshots of the IP configuration windows for PC0, PC1, PC2, and PC3. Each window displays the following configuration:

- PC0:** Interface FastEthernet0, Static IP 192.168.0.23, Subnet Mask 255.255.255.0, Default Gateway 192.168.0.1, DNS Server 0.0.0.0.
- PC1:** Interface FastEthernet0, Static IP 192.168.0.52, Subnet Mask 255.255.255.0, Default Gateway 192.168.0.1, DNS Server 0.0.0.0.
- PC2:** Interface FastEthernet0, Static IP 172.16.0.251, Subnet Mask 255.255.0.0, Default Gateway 172.16.0.1, DNS Server 0.0.0.0.
- PC3:** Interface FastEthernet0, Static IP 172.16.1.122, Subnet Mask 255.255.0.0, Default Gateway 172.16.0.1, DNS Server 0.0.0.0.

- Konfigurasi Router0 dengan setting sebagai berikut :

```

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname LPR2
LPR2(config)#enable secret jarkom
LPR2(config)#interface fastethernet0/0
LPR2(config-if)#ip address 192.168.0.1 255.255.255.0
LPR2(config-if)#no shutdown

LPR2(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

LPR2(config-if)#exit
LPR2(config)#interface fastethernet0/1 10.10.10.7 255.255.255.240

% Invalid input detected at '^' marker.

LPR2(config)#interface fastethernet0/1
LPR2(config-if)#ip address 10.10.10.7 255.255.255.240
LPR2(config-if)#no shutdown

LPR2(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

LPR2(config-if)#exit
LPR2(config)#ip route 172.16.0.0 255.255.0.0 10.10.10.9
LPR2(config)#exit
LPR2#
%SYS-5-CONFIG_I: Configured from console by console

LPR2#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
LPR2#

```

```

LPR2(config)#no enable secret
LPR2(config)#enable password jarkom

```

3. Konfigurasi Router1 dengan setting sebagai berikut :

```

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname JTI-Lt6
JTI-Lt6(config)#enable secret jarkom
JTI-Lt6(config)#interface fastethernet0/0
JTI-Lt6(config-if)#ip address 172.16.0.1 255.255.0.0
JTI-Lt6(config-if)#no shutdown

JTI-Lt6(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

JTI-Lt6(config-if)#exit
JTI-Lt6(config)#interface fastethernet0/1
JTI-Lt6(config-if)#ip address 10.10.10.9 255.255.255.240
JTI-Lt6(config-if)#no shutdown

JTI-Lt6(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

JTI-Lt6(config-if)#exit
JTI-Lt6(config)#ip route 192.168.0.0 255.255.255.0 10.10.10.7
JTI-Lt6(config)#exit
JTI-Lt6#
%SYS-5-CONFIG_I: Configured from console by console

JTI-Lt6#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
JTI-Lt6#

```

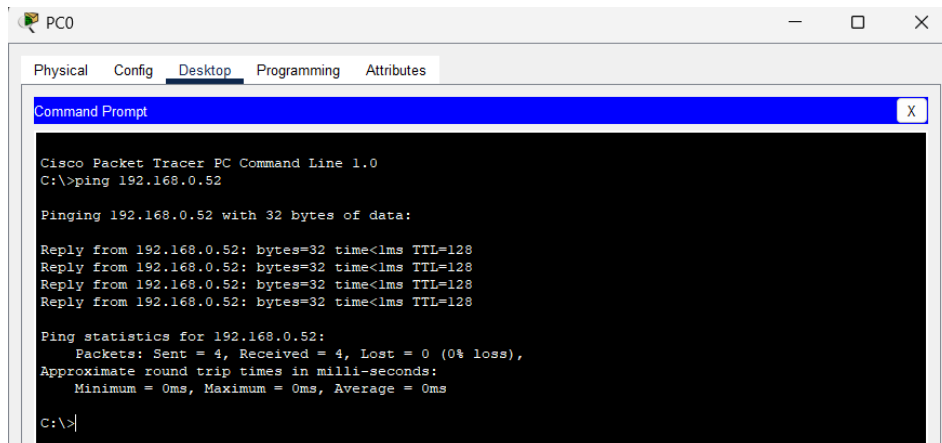
```

JTI-Lt6(config)#no enable secret
JTI-Lt6(config)#enable password jarkom

```

4. Pastikan konektifitas dari setiap PC pada topologi dengan melakukan ping dari PC0 ke PC lain. (4 poin)

- Ping ke PC 1



PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.52

Pinging 192.168.0.52 with 32 bytes of data:

Reply from 192.168.0.52: bytes=32 time<1ms TTL=128
Reply from 192.168.0.52: bytes=32 time<1ms TTL=128
Reply from 192.168.0.52: bytes=32 time<1ms TTL=128
Reply from 192.168.0.52: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.52:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

- **Ping ke PC 2**

```
C:\>ping 172.16.0.251

Pinging 172.16.0.251 with 32 bytes of data:

Reply from 172.16.0.251: bytes=32 time<1ms TTL=126
Reply from 172.16.0.251: bytes=32 time<1ms TTL=126
Reply from 172.16.0.251: bytes=32 time<1ms TTL=126
Reply from 172.16.0.251: bytes=32 time<1ms TTL=126

Ping statistics for 172.16.0.251:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

- **Ping ke PC 3**

```
C:\>ping 172.16.1.122

Pinging 172.16.1.122 with 32 bytes of data:

Reply from 172.16.1.122: bytes=32 time<1ms TTL=126
Reply from 172.16.1.122: bytes=32 time<1ms TTL=126
Reply from 172.16.1.122: bytes=32 time<1ms TTL=126
Reply from 172.16.1.122: bytes=32 time=1ms TTL=126

Ping statistics for 172.16.1.122:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

RESULT

Cisco Packet Tracer - C:\Users\UAG\Downloads\T12F_13_Ghoffer Abdul Ja'far_UAS Praktikum Jarkom.pka - Guest - 2024-05-22 08:42:31

FileEditOptionsViewToolsExtensionsWindowHelp

Activity Results

Congratulations Guest! You completed the activity.

Overall FeedbackAssessment ItemsConnectivity Tests

Expand/Collapse AllShow Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
Network				
PC0				
Default Gateway	Correct	1	Ip	
Ports				
FastEthernet0				
IP Address	Correct	2	Ip	
Subnet Mask	Correct	1	Ip	
PC1				
Default Gateway	Correct	1	Ip	
Ports				
FastEthernet0				
IP Address	Correct	2	Ip	
Subnet Mask	Correct	1	Ip	
PC2				
Default Gateway	Correct	1	Ip	
Ports				
FastEthernet0				
IP Address	Correct	2	Ip	
Subnet Mask	Correct	1	Ip	
PC3				
Default Gateway	Correct	1	Ip	
Ports				
FastEthernet0				
IP Address	Correct	2	Ip	
Subnet Mask	Correct	1	Ip	
Router0				
Enable Password	Correct	5	Other	
Host Name	Correct	5	Other	
Ports				
FastEthernet0/0				
IP Address	Correct	2	Ip	
Port Status	Correct	2	Physical	
Subnet Mask	Correct	1	Ip	
FastEthernet0/1				
IP Address	Correct	2	Ip	
Port Status	Correct	1	Physical	
Subnet Mask	Correct	2	Ip	
Routes				
Static Routes				
Route0	Correct	15	Routing	
Startup Config	Correct	5	Other	
Router1				
Enable Password	Correct	5	Other	
Host Name	Correct	5	Other	
Ports				
FastEthernet0/0				

Score: 100/100

Item Count: 35/36

Component	Items/Total	Score
Ip	29/29	30/30
Other	6/6	30/30
Physical	4/4	6/6
Routing	2/2	30/30

Connectivity

Connectivity Tests	3/3	4/4
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Close

