COMPUTER NETWORKS PRACTICUM PRACTICUM 11



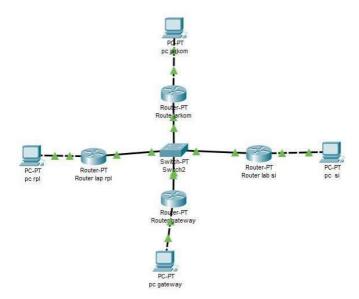
By:

Motwkel Mhmoud Mohmed

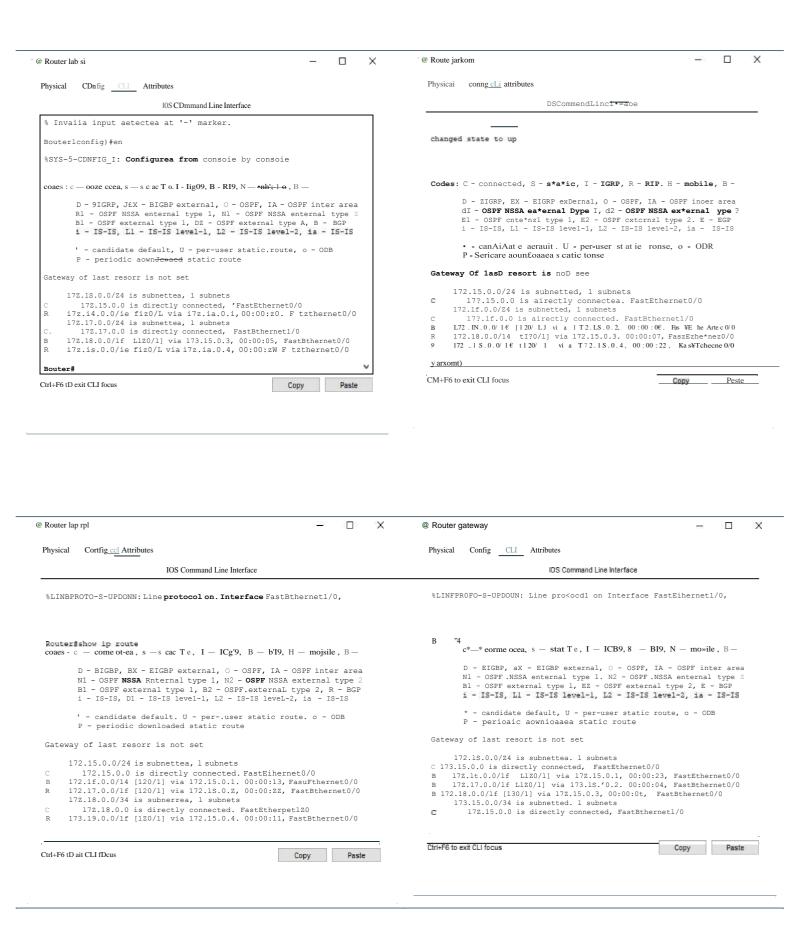
NIM: L200184220

INFORMATION TECHNOLOGY FACULTY OF COMMUNICATION AND INFORMATICS UNIVERSITY OF MUHAMMADIYAH SURAKARTA 2020

1. Activity

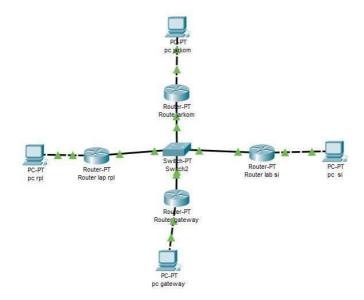


) DHCP	Static				
PAddress	172.17.0.2				
DH CP	Auto Config	Static			
				[7]	
	FE80::20B:BEFF:	ECC:E929			
@ U se 802.1X 5ecMrrty					
s o se ooz. In security					
Douter leb -:					×
Router lab si			- \$.	.45	^
Physical: <u>"</u> -}	DLI Attributes				
riiysicai	DEI Attributes				
GLOBAL		Fas	tEth ernet0/0		
Setfings	Port Status			V	On
Algorithm S ettin g s)B80d\Vidth		100 Mbps () 10 Mb	ops 🗸 A	uto
ROUTING	Dupex			lex 🗸 Aı	
Static	II.IAW Address		0001.9708.UDP		
RIP					_
INTERFACE	IP hon figuration IPAd1ress		172.15.0.2		-
F tEthe rn et0/0					-
FastEthernet1/0	Subnet I.task		255.255.255.0		
E erial2/0			33.		
S erial3/0	Tx Rin g Limit		10		
Fa stEthern et4/0					
Fa stEthe rn et5/0					
Equivalent IO * C a mman	le.				
Equivalent IO * C a mman					^
chsngei stste t: u	У				P.S.
Roucer:enahle					
âouter# âcuter#configure	terminal				
enter configuration		er line. :nd	with CHIL.ZZ.		
âouter(con?ig)#int	er*ace Festothern	eto/O	 -		
9cuter{ccn:ia-iJ					



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pc si
                                                                                                                                                                                                                                                     Config Desktop Programming Attributes
   Physical
    Command Prompt
          eply from 172.19.0.2: bytes=32 time<1ms TTL=126
    Ping statistics for 172.19.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 4ms, Average = 1ms
      C:\>ping 172.16.0.2
     Pinging 172.16.0.2 with 32 bytes of data:
    Reply from 172.16.0.2: bytes=32 time=lms TTL=126
Reply from 172.16.0.2: bytes=32 time<lms TTL=126
Reply from 172.16.0.2: bytes=32 time<lms TTL=126
Reply from 172.16.0.2: bytes=32 time<lms TTL=126
    Ping statistics for 172.16.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
     C:\>ping 172.17.0.2
     Pinging 172.17.0.2 with 32 bytes of data:
    Reply from 172.17.0.2: bytes=32 time<lms TTL=128
Reply from 172.17.0.2: bytes=32 time=19ms TTL=128
Reply from 172.17.0.2: bytes=32 time=12ms TTL=128
Reply from 172.17.0.2: bytes=32 time<lms TTL=128
    Ping statistics for 172.17.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 19ms, Average = 7ms
✓ Тор
```

2. Assignment



) DHCP	Static				
PAddress	172.17.0.2				
DH CP	Auto Config	Static			
				[7]	
	FE80::20B:BEFF:	ECC:E929			
@ U se 802.1X 5ecMrrty					
s o se ooz. In security					
Douter leb -:					×
Router lab si			- \$.	.45	^
Physical: <u>"</u> -}	DLI Attributes				
riiysicai	DEI Attributes				
GLOBAL		Fas	tEth ernet0/0		
Setfings	Port Status			V	On
Algorithm S ettin g s)B80d\Vidth		100 Mbps () 10 Mb	ops 🗸 A	uto
ROUTING	Dupex			lex 🗸 Aı	
Static	II.IAW Address		0001.9708.UDP		
RIP					_
INTERFACE	IP hon figuration IPAd1ress		172.15.0.2		-
F tEthe rn et0/0					-
FastEthernet1/0	Subnet I.task		255.255.255.0		<u></u>
E erial2/0			33.		
S erial3/0	Tx Rin g Limit		10		
Fa stEthern et4/0					
Fa stEthe rn et5/0					
Equivalent IO * C a mman	le.				
Equivalent IO * C a mman					^
chsngei stste t: u	У				P.S.
Roucer:enahle					
âouter# âcuter#configure	terminal				
enter configuration		er line. :nd	with CHIL.ZZ.		
âouter(con?ig)#int	er*ace Festothern	eto/O	 -		
9cuter{ccn:ia-iJ					

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Router GATE\YAY1
                                                                                                          X
                                                                                                                                                                                                                       @ Router LAB 511
 Physical Config CLI Attributes
                                                                                                                               Physical Config
                                                                                                                                                            Attributes
                                                                                                                                                                 10SComrsétnñTer(sce
                                        IOS Command Line Interface
                                                                                                                                Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - 1
    LINiPAOIO-9-UPZOWW: Line protocol on Interface Fast=thernetJ/O,
   changed state to up
                                                                                                                                         D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
                                                                                                                                     i - is-is. si - is-is refer-i. z: - zs-is refer-z, ia - is-zs
                                                                                                                                inner area
' - candiAaze ae•ault, U - per-user szazic roure. c - ODS
  Router#show ip route
   Codes: C - connected, S - stetic, I - IGMP, fl - AIP, N - mcbile, B -
            N''SP'NSA e 1"typ 1 N'OSPFNS e a'type•
                                                                                                                                Gateway of last resort is not set
                                                                                                                                       1 I li '.' J.£4 is subnetted. 1 subnets
            i - IS-IS, L1 - IS-IS IeveI-1, Li - IS-IS Ievel-?, ia - IS-IS
              * - candidate default, U - per-user static route, o - ODS
                                                                                                                                          172.16.0.0 [1/0] via 172.15.0.1
             P - periodic dcwnloaded static route
                                                                                                                                      172.17.0.0/24 is subnetted, 1 subnets
1"..1".>.*.'.> is directly conneoved, Fasz thernevl.".'
172.18.0.0/16 is variably subnetted, 2 subnets, 2 masks
  Gateway of last resort is not set
         Iz.B3.0.0/c4 is subnetted, 1 subnets
   172.I5.0.0 is directly connected, FastBthernetJ/J
let.lé.'J.'J.Y?4s subnetted, 1 subnets
                                                                                                                                FastEthernet0/0
                                                                                                                                        172.18.0.0/24 [1/0] via 172.15.0.3 ?.1?.*-' *.* lf is °'ariably subnetted, ? sVnets, ? masks
         1 Z.19.J.J./?4 is subnetted, 1 subnets
172.19.0.0 is directly connected, FastEthernet1/0
                                                                                                                                Router#
  С
 Ctrl+F6 to exit CLI facus
                                                                                 Сору
                                                                                                  Paste
                                                                                                              X Router RPL
                                                                                                                                                                                                                        П
                                                                                                    @ Routejarkom(1)
 Physical Config CL Attributes
                                          10 S Comman d Line Interfa ce
                                                                                                                                     D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
  jarkom>en
                                                                                                                                     E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, is - IS-IS inter area
- candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
  Codes: C - connected, S - static. I - UDP, 9 - SIB, H - mcbile, B -
  AGP
            D - iIGRP, OX - OIGRP external, O - OSPF, IA - OSPF inter area N1 - OSEF NSSA external type f, NI - OSEF NSSA external type f = 1 - OSPF external type 1. =I - OSEF external type Z, : - OGP i - IS-IS, L1 - IS-IS level-1, L= - IS-IS level-=, ia - IS-IS
                                                                                                                                   172.15.0.0/24 is subnetted, I subnets
             ^{*\prime} - candidate default, U - per-user static rcute, o - ODS E - periodic aownloa3ed static route
                                                                                                                                   172.16.0.0/24 is subnetted, I subnets
                                                                                                                                   172.17.0.0/16 is variably subnetted, 2 subnets, 2 masks
                                                                                                                                  172.17.0.0/24 [1/0] vis 172.15.0.2
172.18.0.0/24 is submetted, 1 submets
172.18.0.0 is directly connected, FastEthernet1/0
172.19.0.0/16 is variably submetted, 2 submets, 2 masks
172.19.0.0/16 [120/1] via 172.15.0.4, 00:00:05, FastEthernet0/0
  Gateway of last resort is not set
          172.15.0.0/24 is subnetted, 1 subnets
          172.15.0.0 is directly connected, FastEthernet0/0
              1 2.1f.0.0 is directly connected, Fast:thernet1/0
            172.18.0.0 [1/0] via 172.15.0.3
              172.19.0.0 [1/0] via 172.15.0.4
                                                                                                                           Top
                                                                                                    Paste
 Ctrl+F6 to exit CLI facus
                                                                                   CopY
```

```
Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0
C:\ping 172.19.0.2

Pinging 172.19.0.2 with 32 bytes of data:

Request timed out.
Reply from 172.19.0.2: bytes=32 time<lms TTL=126
Reply from 172.19.0.2: bytes=32 time<lms TTL=126
Reply from 172.19.0.2: bytes=32 time<lms TTL=126
Ping statistics for 172.19.0.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1lms, Average = 3ms

C:\ping 172.17.0.2

Pinging 172.17.0.2 with 32 bytes of data:

Reply from 172.17.0.2: bytes=32 time=3ms TTL=128
Reply from 172.17.0.2: bytes=32 time=7ms TTL=128
Reply from 172.17.0.2: bytes=32 time=7ms TTL=128
Reply from 172.17.0.2: bytes=32 time</pre>
Ping statistics for 172.17.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 23ms, Average = 9ms

C:\ping 172.16.0.2

Pinging 172.16.0.2 with 32 bytes of data:
```