

Computer Networks

Home Activity

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Task 01

1. Configuration commands

```
Router#  
Router#  
Router#  
Router#  
Router#  
Router#enable  
Router#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Router(config)#int fa0/0  
Router(config-if)#ip add 192.168.1.1 255.255.255.0  
Router(config-if)#no shutdown  
Router(config-if)#exit  
Router(config)#
```

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```
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#ip dhcp pool MY_LAN  
Router(dhcp-config)#network 192.168.1.0 255.255.255.0  
Router(dhcp-config)#default-router 192.168.1.1  
Router(dhcp-config)#dns-server 192.168.1.10  
Router(dhcp-config)#  
Router(dhcp-config)#
```

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```
Router(dhcp-config)#  
Router(dhcp-config)#ip dhcp excluded-address 192.168.1.1 192.168.1.10  
Router(config)#
```

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For PC 0:

The screenshot shows the configuration window for PC0. The 'Desktop' tab is selected. Under 'IP Configuration', the 'Interface' is 'FastEthernet0'. The 'IP Configuration' section has 'DHCP' selected, with a status message 'DHCP request successful.'. The 'IPv4 Address' is '192.168.1.11', 'Subnet Mask' is '255.255.255.0', 'Default Gateway' is '192.168.1.1', and 'DNS Server' is '192.168.1.10'. The 'IPv6 Configuration' section has 'Static' selected. The 'Link Local Address' is 'FE80::201:C9FF:FEE3:CA65'. The '802.1X' section has 'Use 802.1X Security' unchecked, 'Authentication' set to 'MD5', and 'Username' and 'Password' fields are empty.

Field	Value
Interface	FastEthernet0
IP Configuration	DHCP (selected)
Static	(unselected)
DHCP request successful.	(status)
IPv4 Address	192.168.1.11
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS Server	192.168.1.10
IPv6 Configuration	Static (selected)
Automatic	(unselected)
IPv6 Address	
Link Local Address	FE80::201:C9FF:FEE3:CA65
Default Gateway	
DNS Server	
802.1X	
Use 802.1X Security	(unchecked)
Authentication	MD5
Username	
Password	

For PC 1:

The screenshot shows the configuration window for PC1. The 'Desktop' tab is selected. Under 'IP Configuration', the 'Interface' is 'FastEthernet0'. The 'IP Configuration' section has 'DHCP' selected, with a status message 'DHCP request successful.'. The 'IPv4 Address' is '192.168.1.12', 'Subnet Mask' is '255.255.255.0', 'Default Gateway' is '192.168.1.1', and 'DNS Server' is '192.168.1.10'. The 'IPv6 Configuration' section is visible but not fully configured.

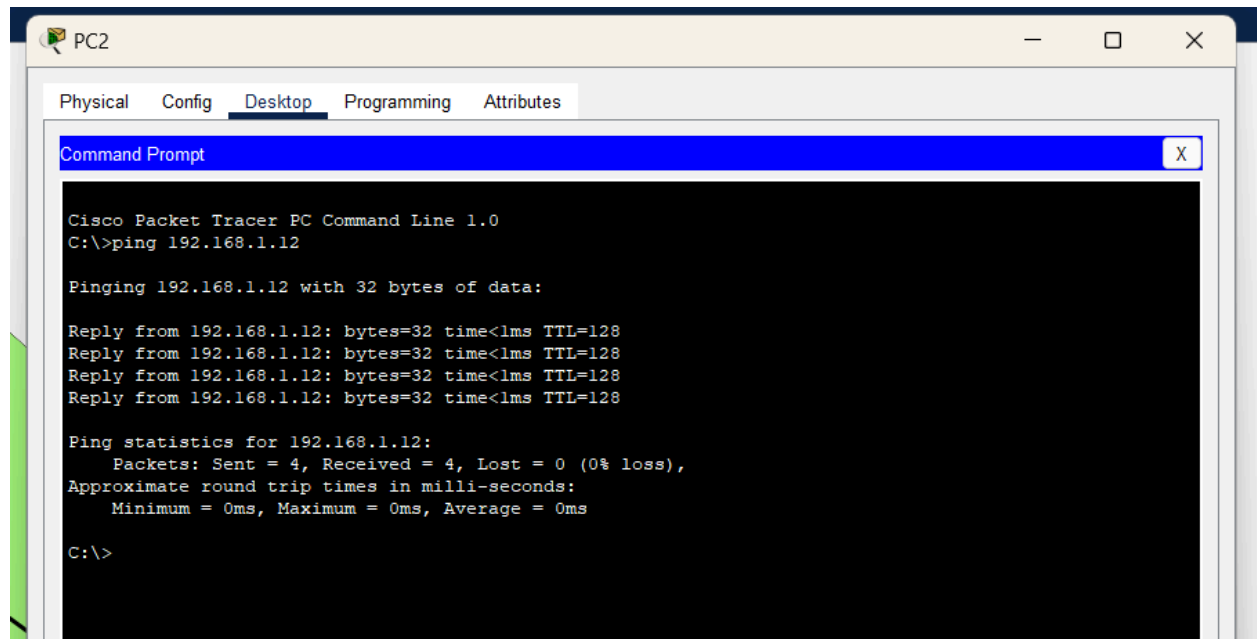
Field	Value
Interface	FastEthernet0
IP Configuration	DHCP (selected)
Static	(unselected)
DHCP request successful.	(status)
IPv4 Address	192.168.1.12
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS Server	192.168.1.10
IPv6 Configuration	

For PC 2:

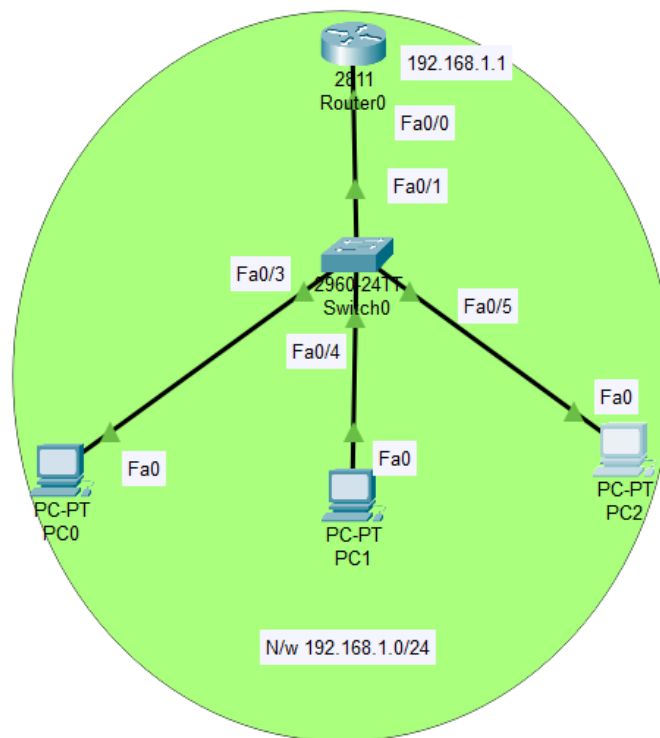
The screenshot shows the configuration window for PC2. The 'Desktop' tab is selected. Under 'IP Configuration', the 'Interface' is 'FastEthernet0'. The 'IP Configuration' section has 'DHCP' selected, with a status message 'DHCP request successful.'. The 'IPv4 Address' is '192.168.1.13', 'Subnet Mask' is '255.255.255.0', 'Default Gateway' is '192.168.1.1', and 'DNS Server' is '192.168.1.10'. The 'IPv6 Configuration' section is visible but not fully configured.

Field	Value
Interface	FastEthernet0
IP Configuration	DHCP (selected)
Static	(unselected)
DHCP request successful.	(status)
IPv4 Address	192.168.1.13
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS Server	192.168.1.10
IPv6 Configuration	

2. Testing commands

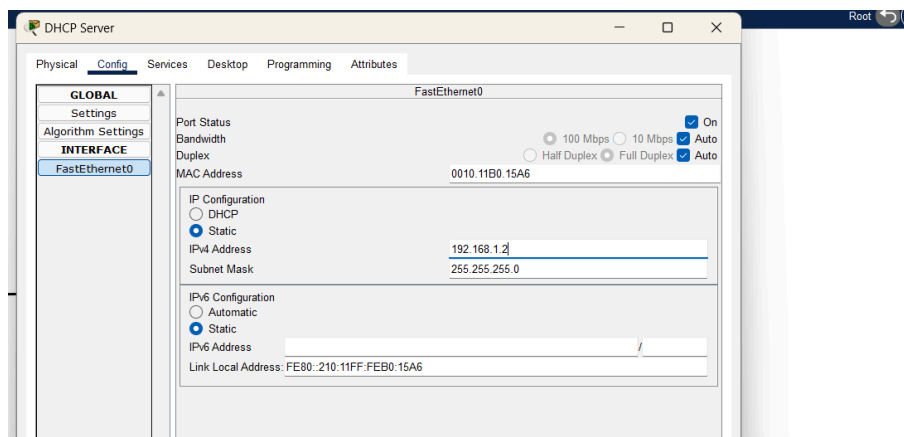


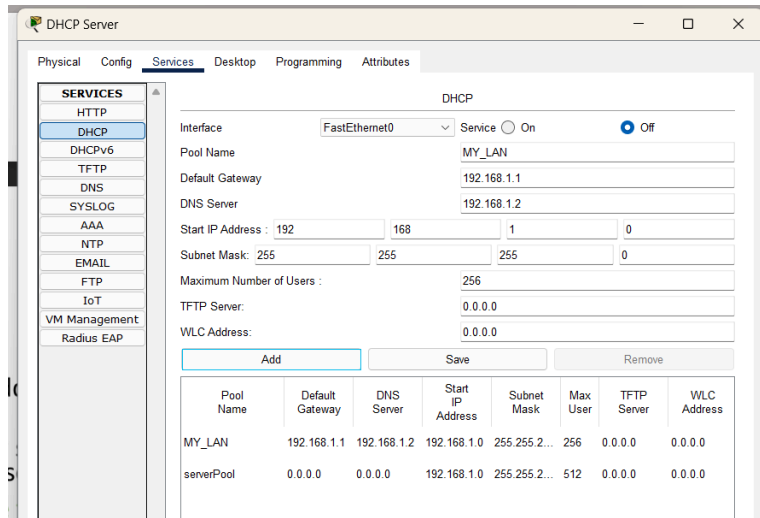
3. Topology with IP addresses labelled.



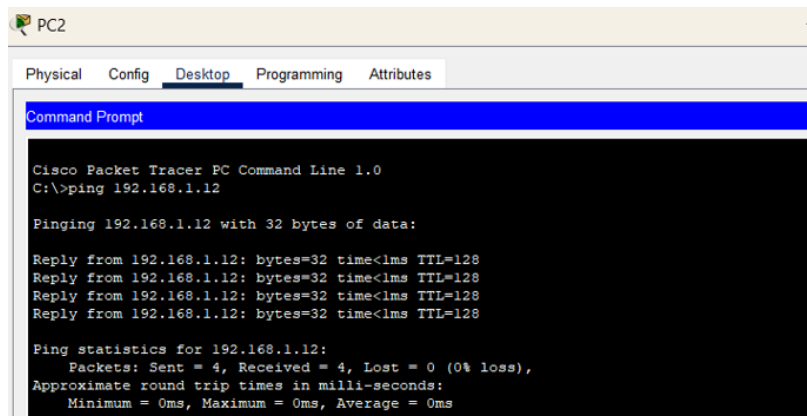
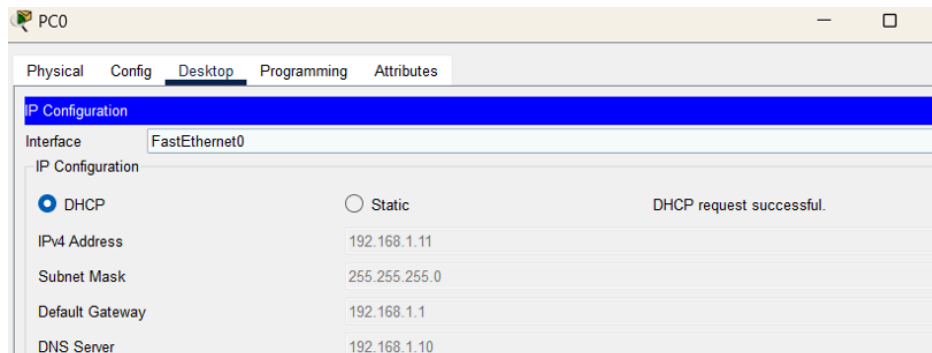
Task 02

1. Configuration commands

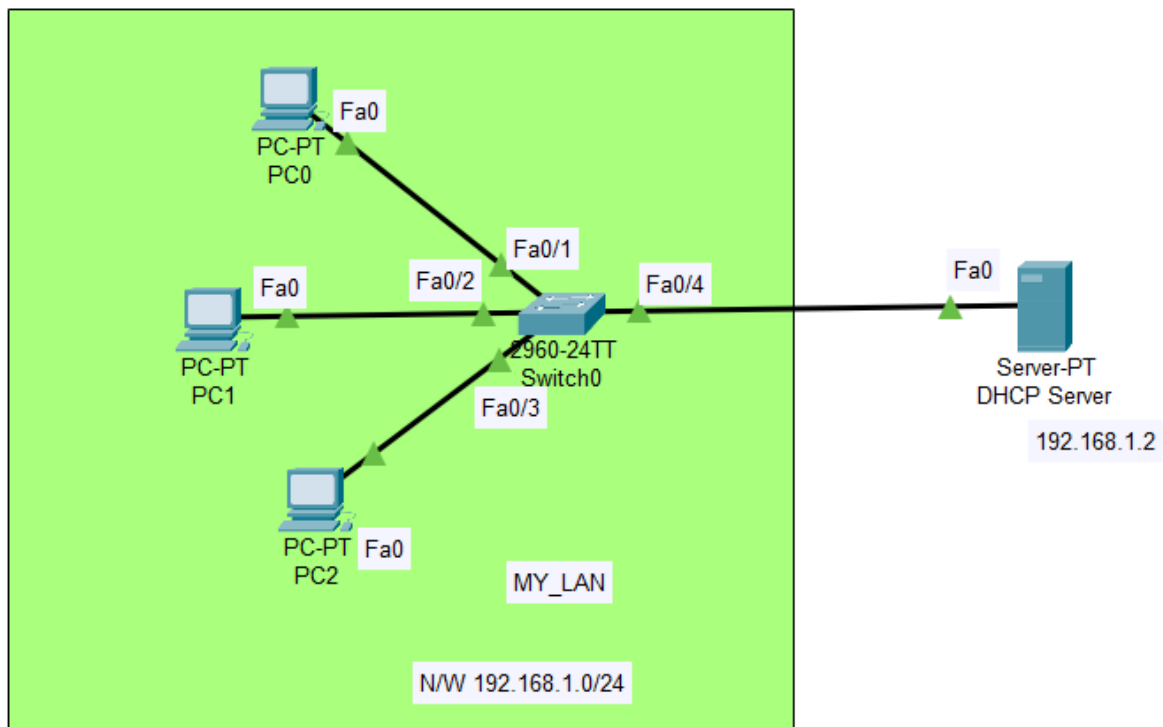




2. Testing commands



3. Topology with IP addresses labelled.



Task 03

```
Router#
Router#
Router#
Router#enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#line vty 0
Router(config-line)#password Pass123
Router(config-line)#login
Router(config-line)#logging synchronous
Router(config-line)#exec-timeout 40
Router(config-line)#motd-banner
Router(config-line)#exit
Router(config)#
```

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

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```
C:\>telnet 192.168.10.1
Trying 192.168.10.1 ...Open

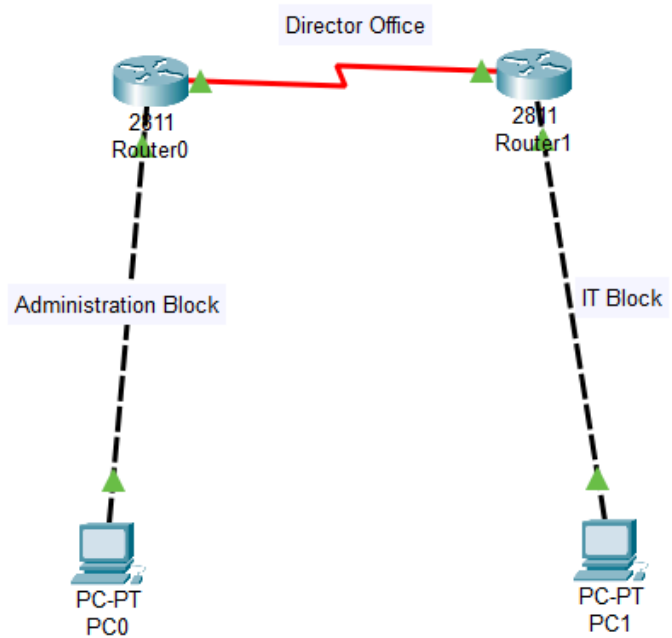
User Access Verification

Password:
Router>en
Password:
Router#show protocol
Global values:
  Internet Protocol routing is enabled
FastEthernet0/0 is up, line protocol is up
Internet Protocol is 10.0.0.1/0
```


IP Address: 192.168.10.0
Subnet Mask: 255.255.255.0

OR

192.168.10.0/24



Task 04

```
Router>enable
Password:
Password:
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip ssh version 2
Please create RSA keys (of at least 768 bits size) to enable SSH v2.
Router(config)#ip ssh time-out 50
Router(config)#ip ssh authentication-retries 4
Router(config)#
```

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```
Router(config)#
Router(config)#
Router(config)#line vty 0
Router(config-line)#transport input ssh
Router(config-line)#password Pass123
Router(config-line)#login
Router(config-line)#logging synchronous
Router(config-line)#motd-banner
Router(config-line)#exit
Router(config)#
```

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Physical Config **Desktop** Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ssh -l Shaish 192.168.10.1

Password:

R1>enable
Password:
R1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#
```

IP Address: 192.168.10.0
Subnet Mask: 255.255.255.0

OR

192.168.10.0/24

