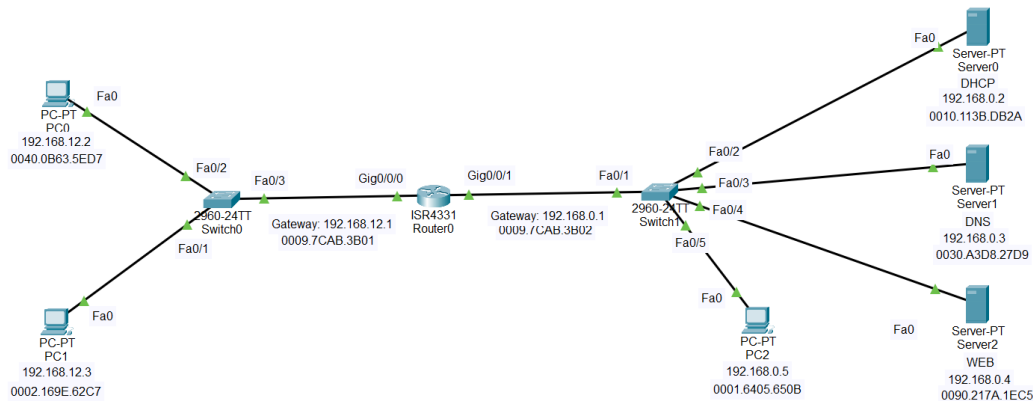


## LAB#04 – TASK#01



## ROUTER CONFIGURATION

Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#enable
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface gig0/0/0
Router(config-if)#ip address 192.168.12.1 255.255.255.0
Router(config-if)#no shut

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

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up

Router(config-if)#interface gig0/0/1
Router(config-if)#ip address 192.168.0.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up
Router(config-if)#
```

Copy Pa:

## DHCP SERVER CONFIGURATION (STATIC)

Server0

Physical Config **Services** Desktop Programming Attributes

**SERVICES**

- HTTP
- DHCP**
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

**DHCP**

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 192.168.0.1

DNS Server: 192.168.0.3

Start IP Address: 192 168 0 4

Subnet Mask: 255 255 255 0

Maximum Number of Users: 252

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.0.1	192.168.0.3	192.168.0.4	255.255.2...	252	0.0.0.0	0.0.0.0

Server0

Physical Config Services **Desktop** Programming Attributes

**IP Configuration** X

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.0.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.1

DNS Server: 192.168.0.3

IPv6 Configuration

☒ Automatic ☐ Static

IPv6 Address: /

Link Local Address: FE80::210:11FF:FE3B:DB2A

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

## DNS SERVER CONFIGURATION (STATIC)

Server1

Physical Config **Services** Desktop Programming Attributes

**SERVICES**

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS**
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

DNS

DNS Service ☒ On ☐ Off

Resource Records

Name  Type

Address

No.	Name	Type	Detail
0	nabira.com	A Record	192.168.0.3

Server1

Physical Config Services **Desktop** Programming Attributes

**IP Configuration**

IP Configuration

☐ DHCP ☒ Static

IPv4 Address

Subnet Mask

Default Gateway

DNS Server

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address

Default Gateway

DNS Server

## REST DHCP SETTINGS FOR OTHER DEVICES

Server2

Physical Config Services **Desktop** Programming Attributes

**IP Configuration**

IP Configuration

☒ DHCP ☐ Static

IPv4 Address

Subnet Mask

Default Gateway

DNS Server

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address

Default Gateway

PC2

Physical Config **Desktop** Programming Attributes

**IP Configuration**

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 192.168.0.5

Subnet Mask 255.255.255.0

Default Gateway 192.168.0.1

DNS Server 192.168.0.3

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80::201:64FF:FE05:650B

## SECOND NETWORK IPS MANUAL CONFIGURATION + DNS CHECK

PC0

Physical Config **Desktop** Programming Attributes

**IP Configuration**

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.12.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.12.1

DNS Server 192.168.0.3

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80::240:BFF:FE63:5ED7

PC1

Physical Config **Desktop** Programming Attributes

**Web Browser**

< > URL http://nabira.com

Cisco Packet Tracer

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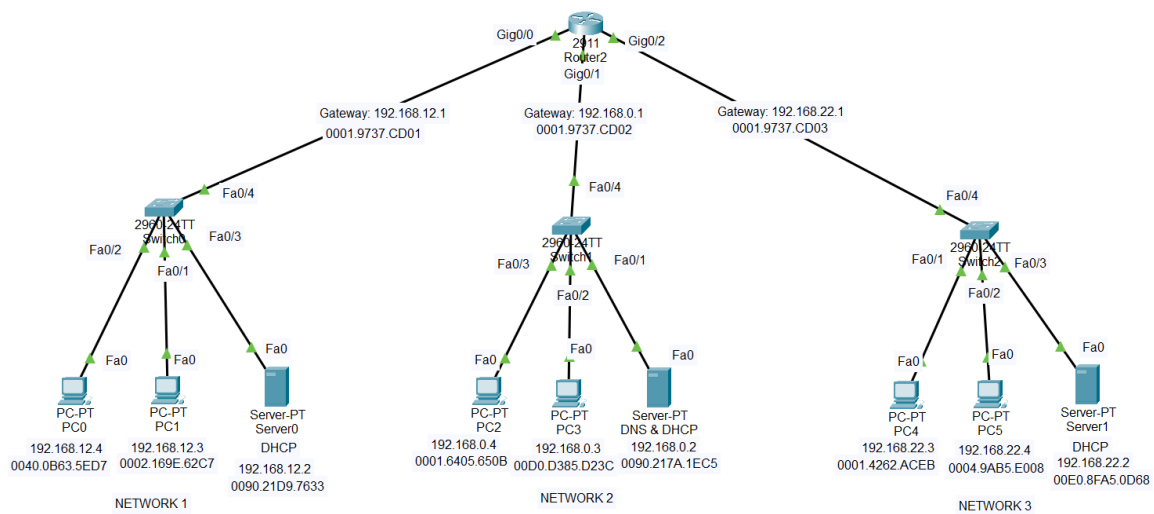
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## LAB#04 – TASK#02



```
Router2
Physical Config CLI Attributes
IOS Command Line Interface

--- System Configuration Dialog ---
Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>enable
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface gig0/0
Router(config-if)#ip address 192.168.12.1
% Incomplete command.
Router(config-if)#ip address 192.168.12.1 255.255.255.0
Router(config-if)#no shut

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

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Router(config-if)#interface gig0/1
Router(config-if)#ip address 192.168.0.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

Router(config-if)#interface gig0/2
Router(config-if)#ip address 192.168.22.1
% Incomplete command.
Router(config-if)#ip address 192.168.22.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up
```

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Paste

## NETWORK 2 CONFIGURATION WITH DHCP AND DNS

DNS & DHCP

Physical Config **Services** Desktop Programming Attributes

**SERVICES**

- HTTP
- DHCP**
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

**DHCP**

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 192.168.0.1

DNS Server: 192.168.0.2

Start IP Address: 192 168 0 3

Subnet Mask: 255 255 255 0

Maximum Number of Users: 253

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.0.1	192.168.0.2	192.168.0.3	255.255.255.0	253	0.0.0.0	0.0.0.0

DNS & DHCP

Physical Config **Services** Desktop Programming Attributes

**SERVICES**

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS**
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

**DNS**

DNS Service: ☒ On ☐ Off

Resource Records

Name: nabira.com Type: A Record

Address: 192.168.0.2

Add Save Remove

No.	Name	Type	Detail
0	nabira.com	A Record	192.168.0.2

PC0

Physical Config **Desktop** Programming Attributes

Web Browser

< > URL: http://nabira.com Go Stop

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## NETWORK 1 CONFIGURATION WITH DHCP

Server0

Physical Config Services Desktop Programming Attributes

**SERVICES**  
HTTP  
**DHCP**  
DHCPv6  
TFTP  
DNS  
SYSLOG  
AAA  
NTP  
EMAIL  
FTP  
IoT  
VM Management  
Radius EAP

### DHCP

Interface FastEthernet0 Service ☒ On ☐ Off

Pool Name serverPool

Default Gateway 192.168.12.1

DNS Server 192.168.0.2

Start IP Address : 192 168 12 3

Subnet Mask: 255 255 255 0

Maximum Number of Users : 512

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.12.1	192.168.0.2	192.168.12.3	255.255.2...	512	0.0.0.0	0.0.0.0

## NETWORK 3 CONFIGURATION WITH DHCP

Server1

Physical Config Services Desktop Programming Attributes

**SERVICES**  
HTTP  
**DHCP**  
DHCPv6  
TFTP  
DNS  
SYSLOG  
AAA  
NTP  
EMAIL  
FTP  
IoT  
VM Management  
Radius EAP

### DHCP

Interface FastEthernet0 Service ☒ On ☐ Off

Pool Name serverPool

Default Gateway 192.168.22.1

DNS Server 192.168.0.2

Start IP Address : 192 168 22 3

Subnet Mask: 255 255 255 0

Maximum Number of Users : 253

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.22.1	192.168.0.2	192.168.22.3	255.255.2...	253	0.0.0.0	0.0.0.0