

Name=

Abubaker Attique

Roll no =

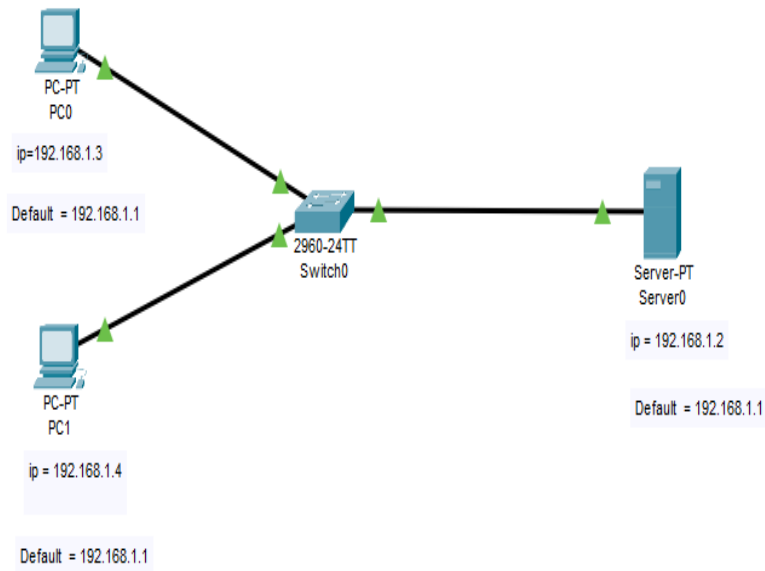
P20-0560

SECTION =

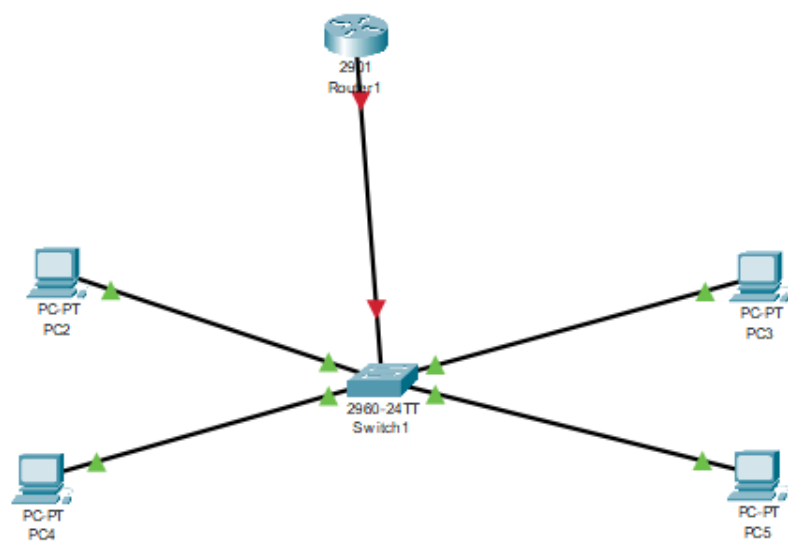
5-A

Lab 04

DNS server configuration in Packet Tracer



IP Configuration of the DNS server:



Physical Config Services **Desktop** Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.169.1.1

DNS Server: 192.168.1.2

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address:

Link Local Address: FE80::207:ECFF:FE01:20CA

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MDS

Username:

Password:

ical Physical x: 245, y: 511

0:44:54

Router1

Physical Config **CLI** Attributes

IOS Command Line Interface

If you require further assistance please contact us by sending email to export@cisco.com.

Cisco CISCO2901/K9 (revision 1.0) with 491520K/32768K bytes of memory.
 Processor board ID FTX152400KS
 2 Gigabit Ethernet interfaces
 DRAM configuration is 64 bits wide with parity disabled.
 256K bytes of non-volatile configuration memory.
 249856K bytes of ATA System CompactFlash 0 (Read/Write)

--- System Configuration Dialog ---

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

Press RETURN to get started!

Router>enable
 Router#configure terminal
 Enter configuration commands, one per line. End with CNTL/Z.
 Router(config)#interface FastEthernet0/0
 %Invalid interface type and number
 Router(config)#interface GigabitEthernet0/0
 Router(config-if)#ip address 192.168.1.1 255.255.255.0
 Router(config-if)#no shutdown
 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

Copy Pas

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
%Invalid interface type and number
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shutdown

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)#ex
Router(dhcp-config)#ip dhcp pool P1
Router(dhcp-config)#network 192.168.1.1 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.1
Router(dhcp-config)#dns-server 192.168.1.10
Router(dhcp-config)#network 192.168.1.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.1
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)#ex
Router(config)#
```

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

☒ DHCP

☐ Static

IPv4 Address192.168.1.2

Subnet Mask255.255.255.0

Default Gateway192.168.1.1

DNS Server192.168.1.10

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local AddressFE80::290:2BFF:FE53:A46E

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

AuthenticationMD5

Username

Password

PC3

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address 192.168.1.5

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 192.168.1.10

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80::2D0:BCFF:FE38:7CCB

Default Gateway

PC-PT PC3

PC-PT PC5

PC4

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 192.168.1.4

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 192.168.1.10

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80::260:70FF:FE93:C87A

Default Gateway

DNS Server

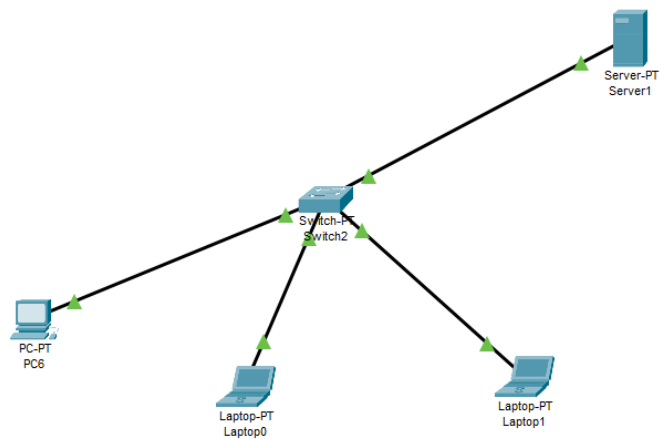
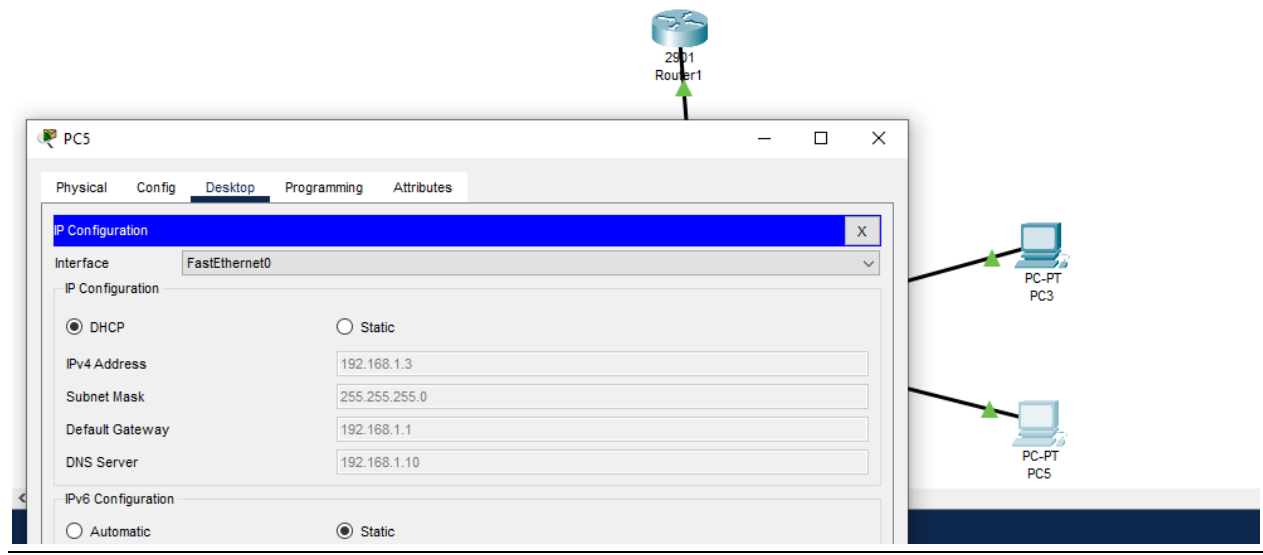
802.1X

☐ Use 802.1X Security

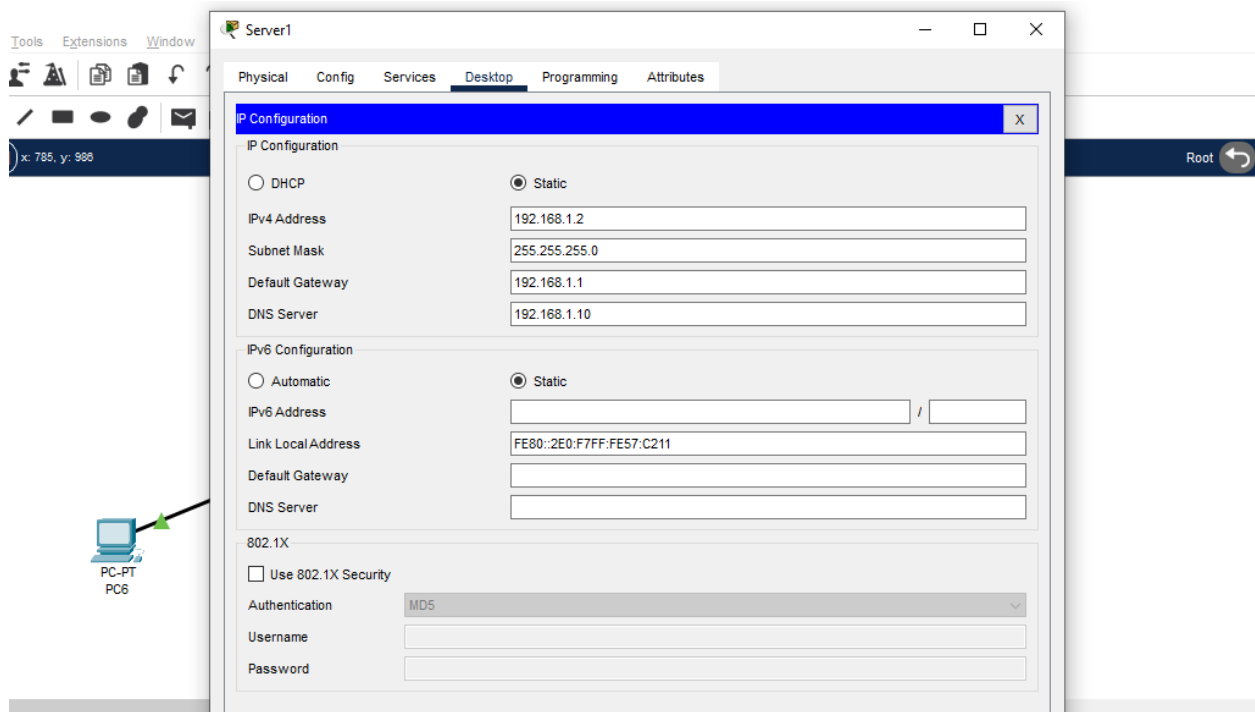
PC-PT PC2

PC-PT PC4

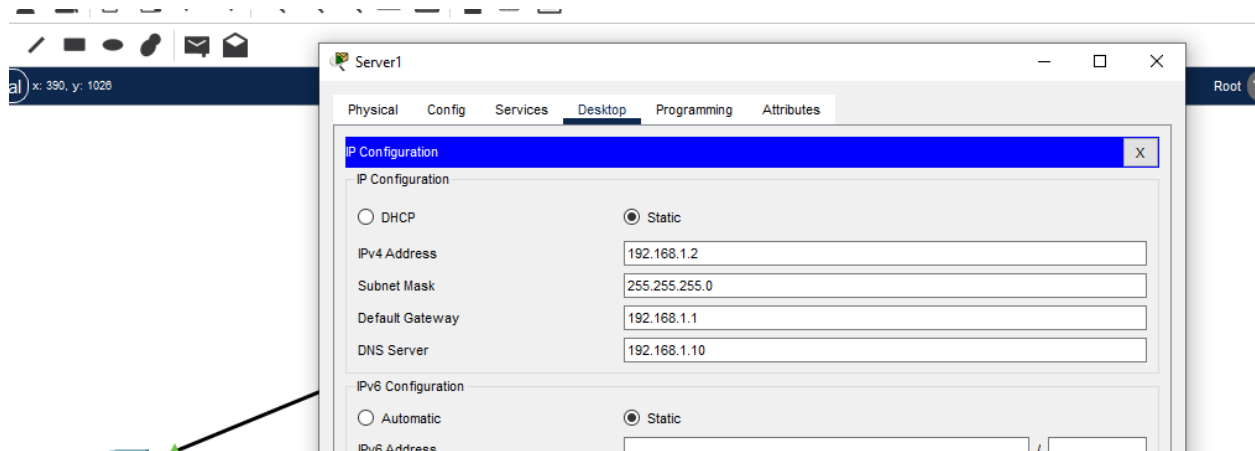
02:32



Configurations of server



IP Configuration for Server



Options View Tools Extensions Window

Physical x: 1038, y: 1042

PC-PT
PC6

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: 192.168.1.1

DNS Server: 192.168.1.10

Start IP Address: 192 168 1 0

Subnet Mask: 255 255 255 0

Maximum Number of Users: 255

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	0.0.0.0	0.0.0.0	192.168....	255.255....	255	0.0.0.0	0.0.0.0

le Edit Options View Tools Extensions Window

Logical Physical x: 1059, y: 1354

PC-PT
PC6

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: 192.168.1.1

DNS Server: 192.168.1.10

Start IP Address: 192 168 1 11

Subnet Mask: 255 255 255 0

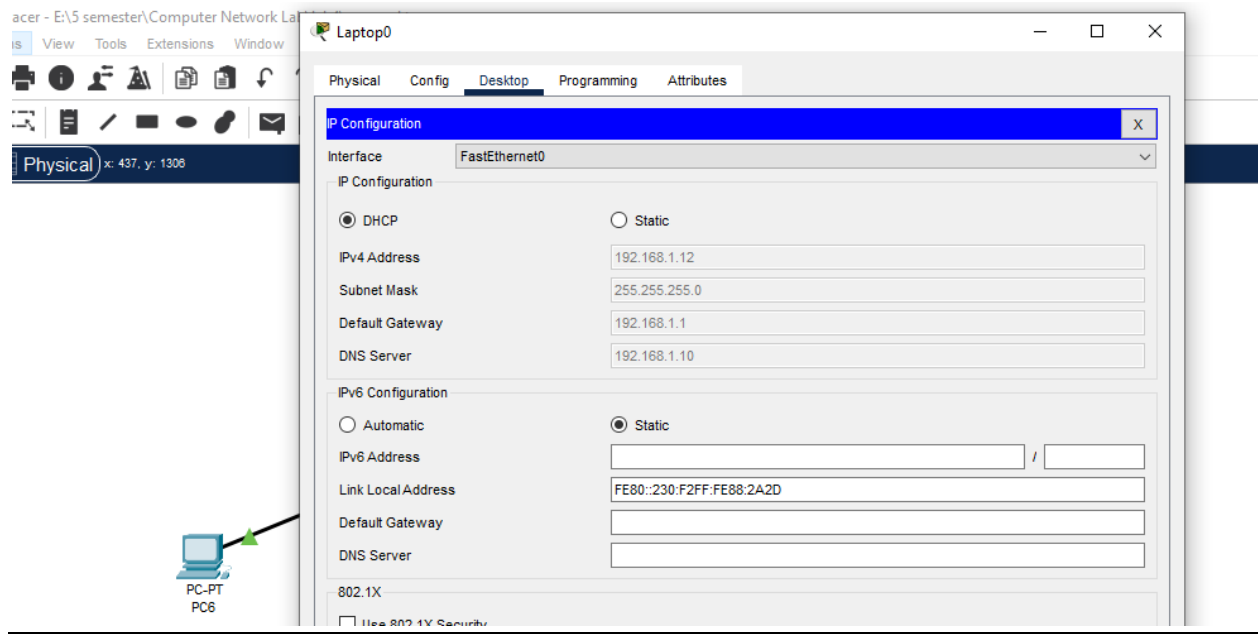
Maximum Number of Users: 245

TFTP Server: 0.0.0.0

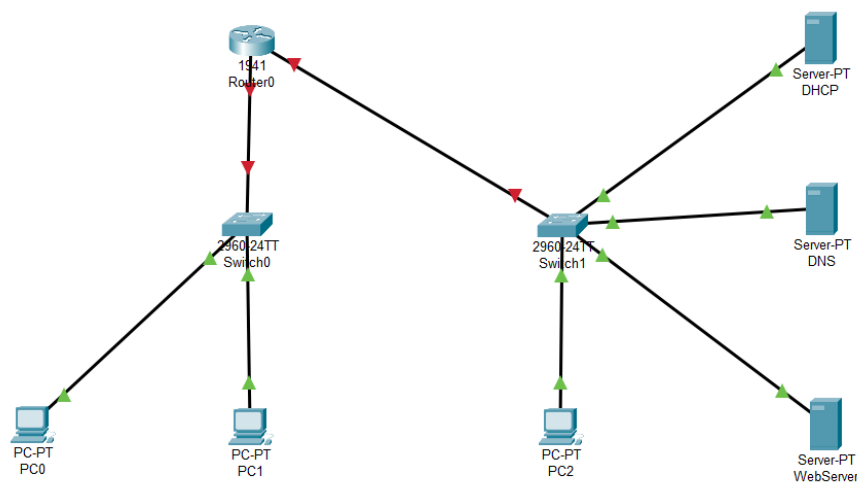
WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168....	192.168....	192.168....	255.255....	245	0.0.0.0	0.0.0.0



Task: Configuring DHCP, DNS and Web Server configuration



Assign Ip address to G0/0 and G0/1 of router.

Router0

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet0/1

FastEthernet0/0

Port Status ☐ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☒ Half Duplex ☐ Full Duplex ☒ Auto

MAC Address 0090.2B59.0E01

IP Configuration

IPv4 Address 192.168.1.2

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Press RETURN to get started!

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#no ip address
Router(config-if)#ip address 192.168.1.2 255.255.255.0
Router(config-if)#ip address 192.168.1.2 255.255.255.0
Router(config-if)#
```

Assign Ip address to G0/0 and G0/1 of router.

GLOBAL	FastEthernet0/1	
Settings		
Algorithm Settings		
ROUTING		
Static		
RIP		
INTERFACE		
FastEthernet0/0		
FastEthernet0/1		

Port Status	
Bandwidth	<input checked="" type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps
Duplex	<input checked="" type="radio"/> Half Duplex <input type="radio"/> Full Duplex
MAC Address	0090.2B59.0E02

IP Configuration	
IPv4 Address	192.168.2.2
Subnet Mask	255.255.255.0

Tx Ring Limit	10
---------------	----

Equivalent IOS Commands

```
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#no ip address
Router(config-if)#ip address 192.168.1.2 255.255.255.0
Router(config-if)#ip address 192.168.1.2 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1

Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 192.168.2.2 255.255.255.0
Router(config-if)#ip address 192.168.2.2 255.255.255.0
Router(config-if)#ex
Router(config)#ip dhcp pool p1
Router(dhcp-config)#network 192.168.2.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.2.2
Router(dhcp-config)#ex
Router(config)#
```

Configuring DHCP:

DHCP

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

X

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

192.168.1.4

Subnet Mask

255.255.255.0

Default Gateway

192.68.1.2

DNS Server

192.168.1.9

IPv6 Configuration

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

192.168.1.2

DNS Server

192.168.1.9

Start IP Address :

192

168

1

0

Subnet Mask:

255

255

255

0

Maximum Number of Users :

255

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
serverPool1	192.16...	192.16...	192.16...	255.25...	255	0.0.0.0	0.0.0.0
serverPool	192.16...	192.16...	192.16...	255.25...	255	0.0.0.0	0.0.0.0

<

>

DNS

Physical
 Config
 Services
 Desktop
 Programming
 Attributes

IP Configuration
 X

IP Configuration

☐ DHCP
 ☒ Static

IPv4 Address

Subnet Mask

Default Gateway

DNS Server

DNS

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
 A Record

Address

Add
 Save
 Remove

No.	Name	Type	Detail
0	www.abubaker.com	A Record	192.168.1.6
1	www.dhcp.com	A Record	192.168.1.4
2	www.webserver.com	A Record	192.168.1.7

Configuring web server:

Physical Config **Services** Desktop Programming Attributes**SERVICES**

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

File Name: index.html

```
<html>
<center><font size='+2' color='blue'>Cisco Packet Tracer</font></center>
<hr>Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind
Wide Open.
<p>Quick Links:
<br><a href='helloworld.html'>A small page</a>
<br><a href='copyrights.html'>Copyrights</a>
<br><a href='image.html'>Image page</a>
<br><a href='cscoptlogo177x111.jpg'>Image</a>
</html>
```