Name: Noman Siddique

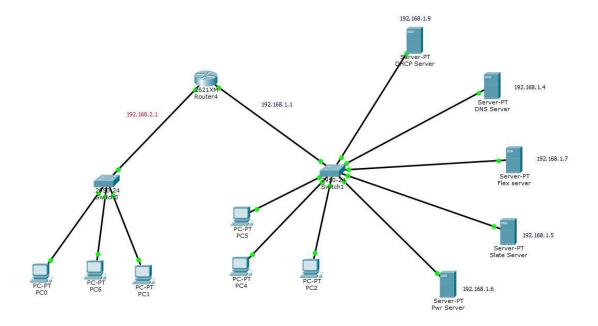
Roll Number: 19P1664

Assignment: Lab 4 Home Work

**Course:** Computer Networks

<u>Instructor:</u> <u>Engr. Khurram Shahzad</u>

# **TOPOLOGY:**



# **Router Configure Using CLI:**

### **Router Hostname:**

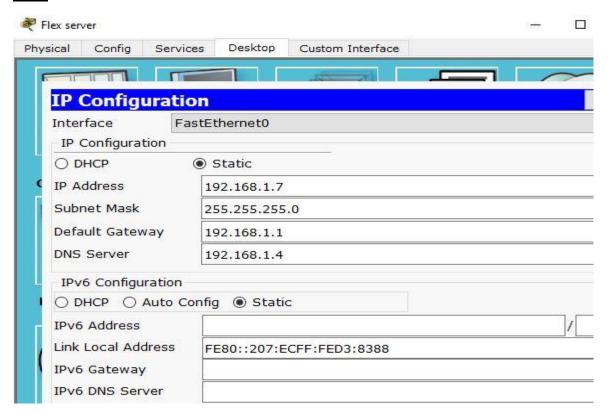
```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Noman
Noman(config)#ex
Noman#
%SYS-5-CONFIG_I: Configured from console by console
Noman#
```

### **Router Ip Config:**

```
sala-a-config I. configured from console by console
Noman#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Noman(config) #interface f0/0
Noman(config-if) #ip address 192.168.2.1 255.255.255.0
Noman (config-if) #no shut
Noman (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
Noman(config-if) #ex
Noman (config) #
Noman(config) #interface f0/1
Noman(config-if) #ip address 192.168.1.1 255.255.255.0
Noman(config-if) #no shut
Noman (config-if) #
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to
Noman (config-if) #ex
Noman (config) #
```

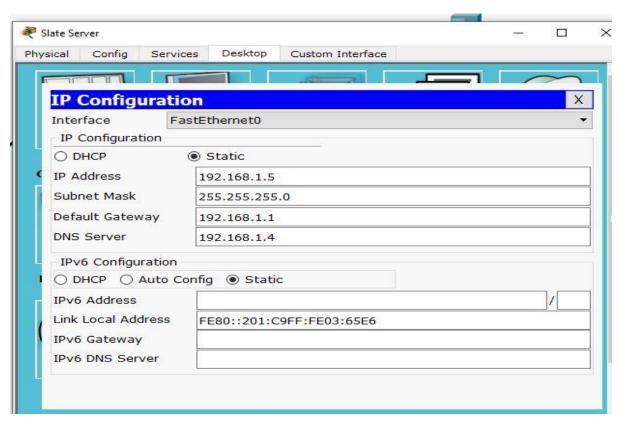
#### **Web Server**

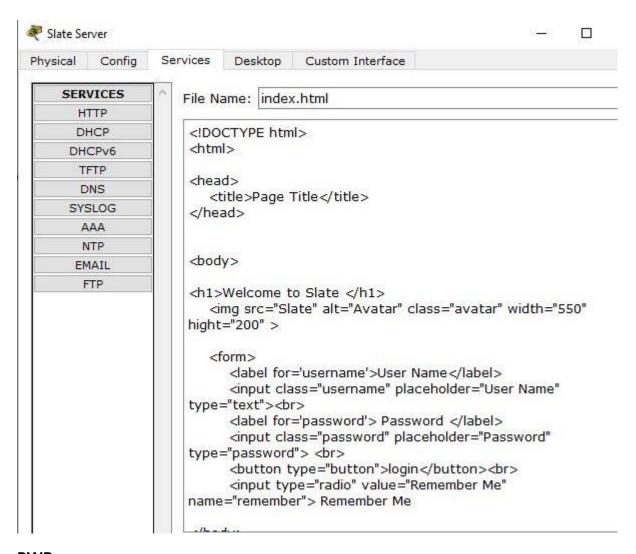
#### Flex:



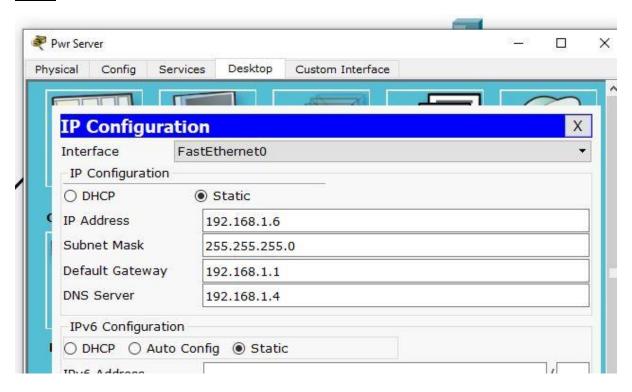
```
<!DOCTYPE html>
<html>
<head>
   <title>Page Title</title>
</head>
<body>
<h1>Welcome to Flex</h1>
   <img src="C:\Users\HP\Downloads\flex-logo-blue"</pre>
alt="Avatar" class="avatar" width="550" hight="200" >
   <form>
     <label for='username'>User Name</label>
     <input class="username" placeholder="User Name"
type="text"><br>
     <label for='password'> Password </label>
      <input class="password" placeholder="Password"
type="password"> <br>
     <button type="button">login</button><br>
      <input type="radio" value="Remember Me"
name="remember"> Remember Me
```

#### Slate:



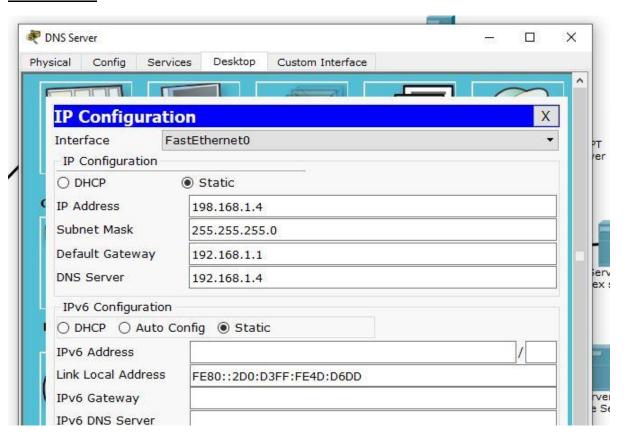


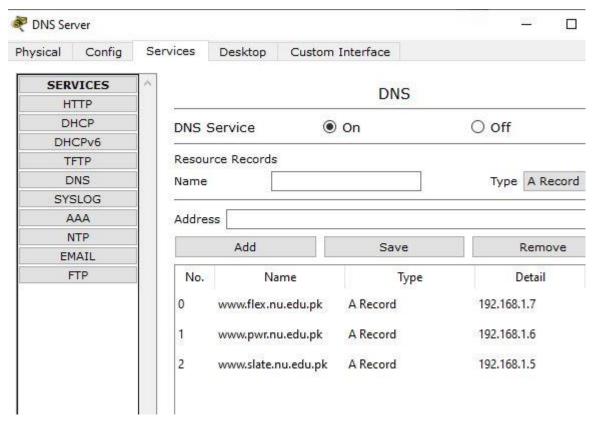
#### **PWR:**



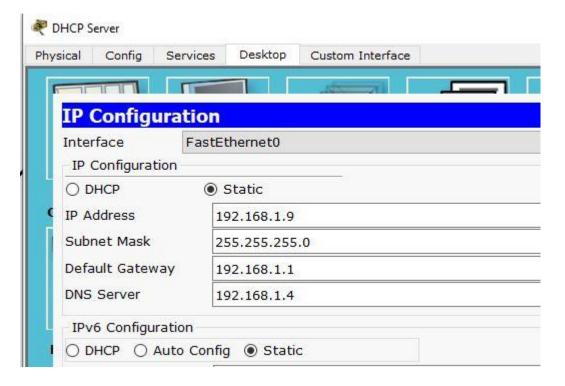
```
File Name: index.html
 <!DOCTYPE html>
 <html>
 <head>
   <title>Page Title</title>
 </head>
 <body>
<h1>Welcome to Fast Peshawar </h1>
   <img src="Slate" alt="Avatar" class="avatar" width="550"</pre>
hight="200" >
   <form>
      <label for='username'>User Name</label>
      <input class="username" placeholder="User Name"
type="text"><br>
      <label for='password'> Password </label>
      <input class="password" placeholder="Password"</pre>
type="password"> <br>
      <button type="button">login</button><br>
      <input type="radio" value="Remember Me"
name="remember"> Remember Me
```

#### **DNS Server:**





### **DHCP Server:**



Maximum number of users:

256

TFTP Server:

0.0.0.0

| Add        |                 | Save        |                  |               | Remove   |             |
|------------|-----------------|-------------|------------------|---------------|----------|-------------|
| Pool Name  | Default Gateway | DNS Server  | Start IP Address | Subnet Mask   | Max User | TFTP Server |
| P2         | 192.168.2.1     | 192.168.1.4 | 192.168.2.0      | 255.255.255.0 | 256      | 0.0.0.0     |
| P1         | 192.168.1.1     | 192.168.1.4 | 192.168.1.0      | 255.255.255.0 | 256      | 0.0.0.0     |
| serverPool | 0.0.0.0         | 0.0.0.0     | 192.168.1.0      | 255.255.255.0 | 256      | 0.0.0.0     |

#### **DHCP SERVER POOL:**

Noman#

Noman#

Noman#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Noman(config) #ip dhcp pool Pl

Noman(dhcp-config) #network 192.168.1.1 255.255.255.0

Noman(dhcp-config) #default-router 192.168.1.1

Noman(dhcp-config) #dns-server 192.168.1.4

Noman (dhcp-config) #ex

Noman (config) #

Noman(config) #ip dhcp pool P2

Noman(dhcp-config) #network 192.168.2.1 255.255.255.0

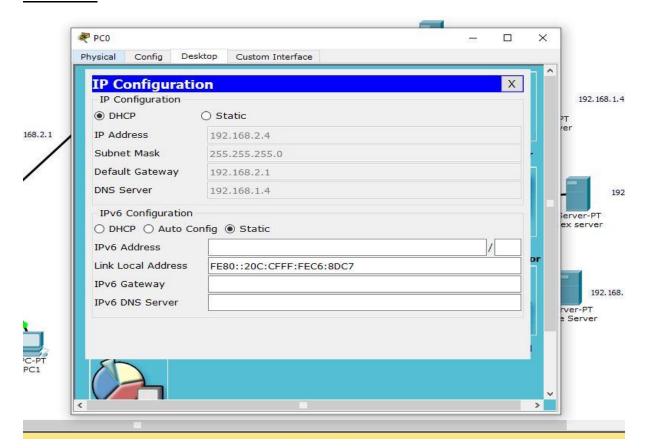
Noman(dhcp-config)#default-router 192.168.2.1

Noman(dhcp-config) #dns-server 192.168.1.4

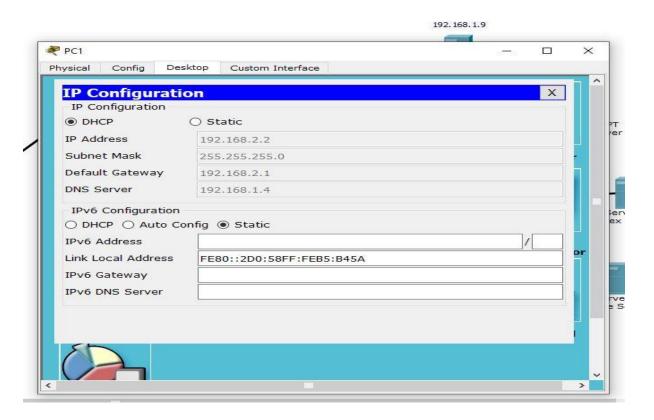
Noman (dhcp-config) #ex

Noman(config) #

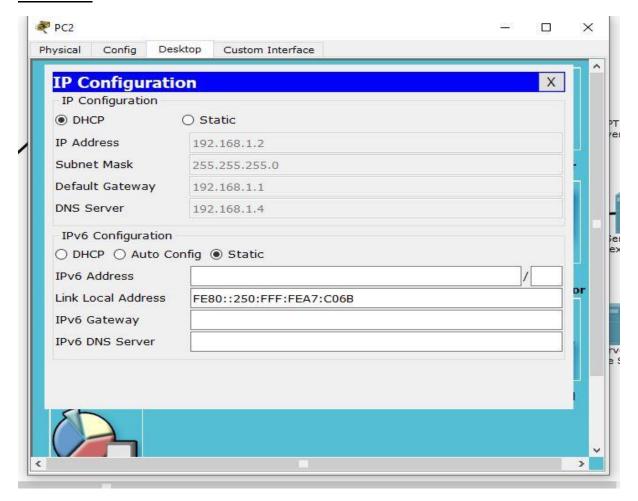
### **DHCP PC1**



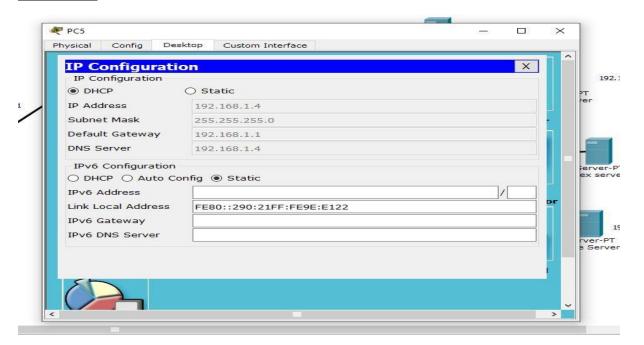
### **DHCP PC2**



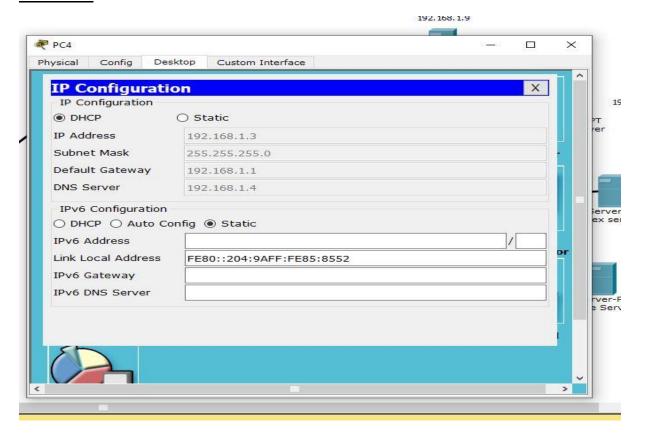
### **DHCP PC3**



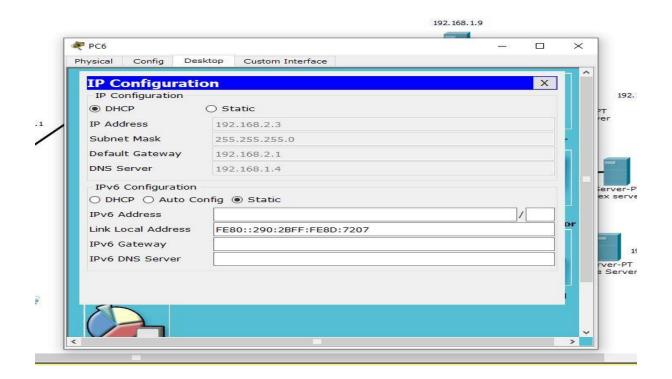
### **DHCP PC4:**



#### **DHCP PC5**



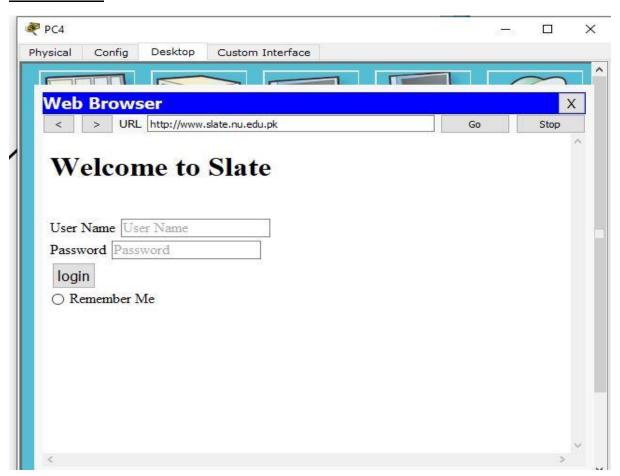
#### **DHCP PC6**



### **FLEX PAGE:**



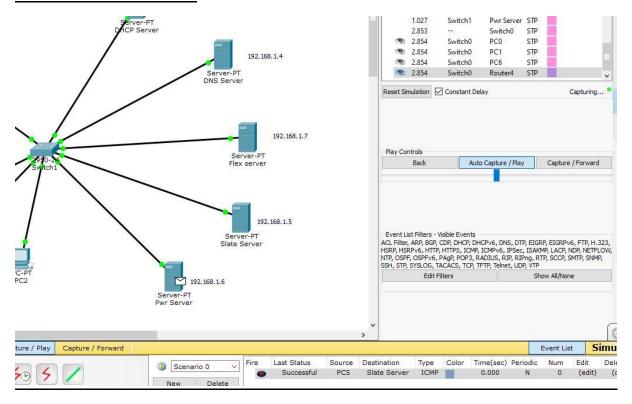
#### **SLATE PAGE:**



### **PWR PAGE:**



# **Simulation Observation:**



# **Observation:**

When We enter IP address goes to web server that we created and then to the DNS after that this return to our pc and then goes to web server at first time.