ASJID TAHIR

P190085

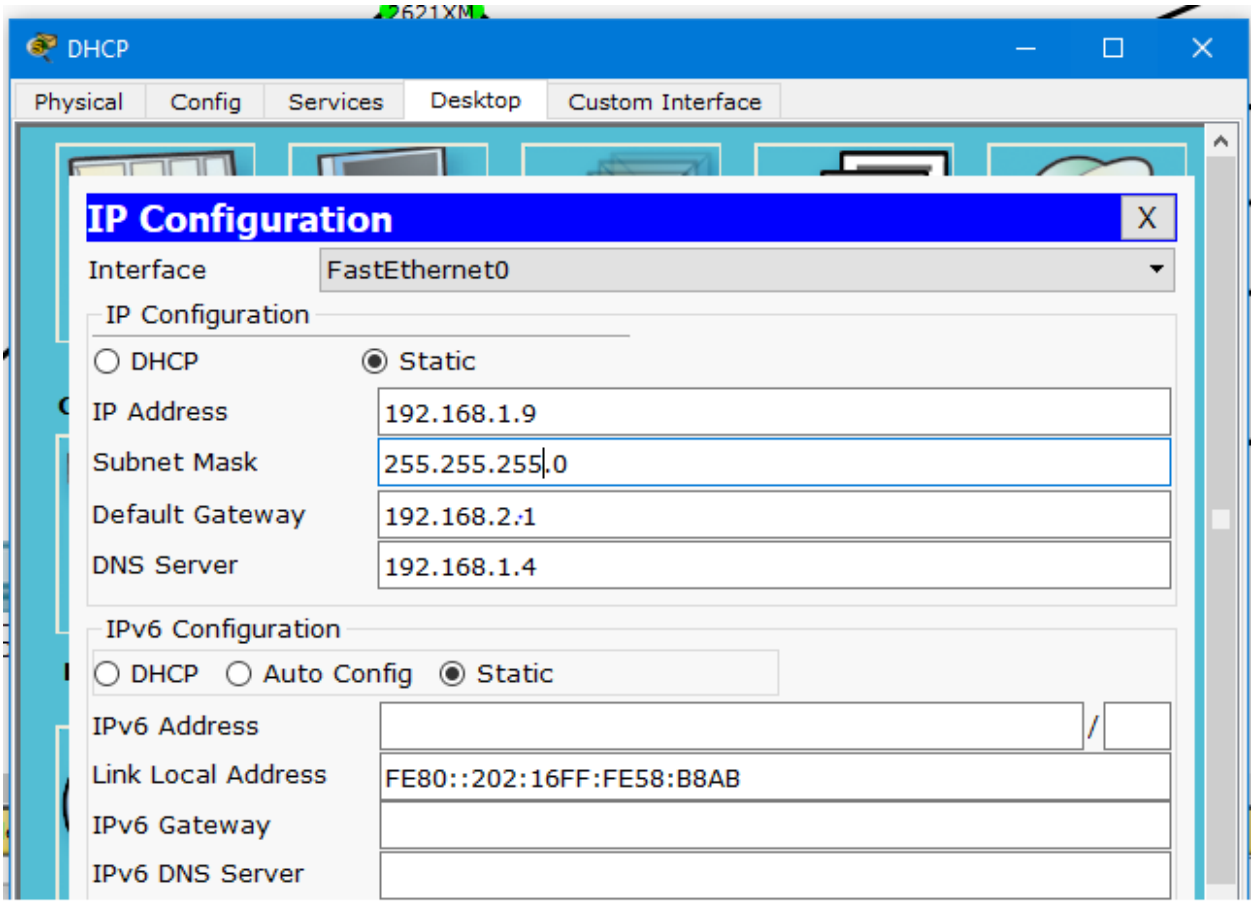
COMPUTER NETWORKS LAB

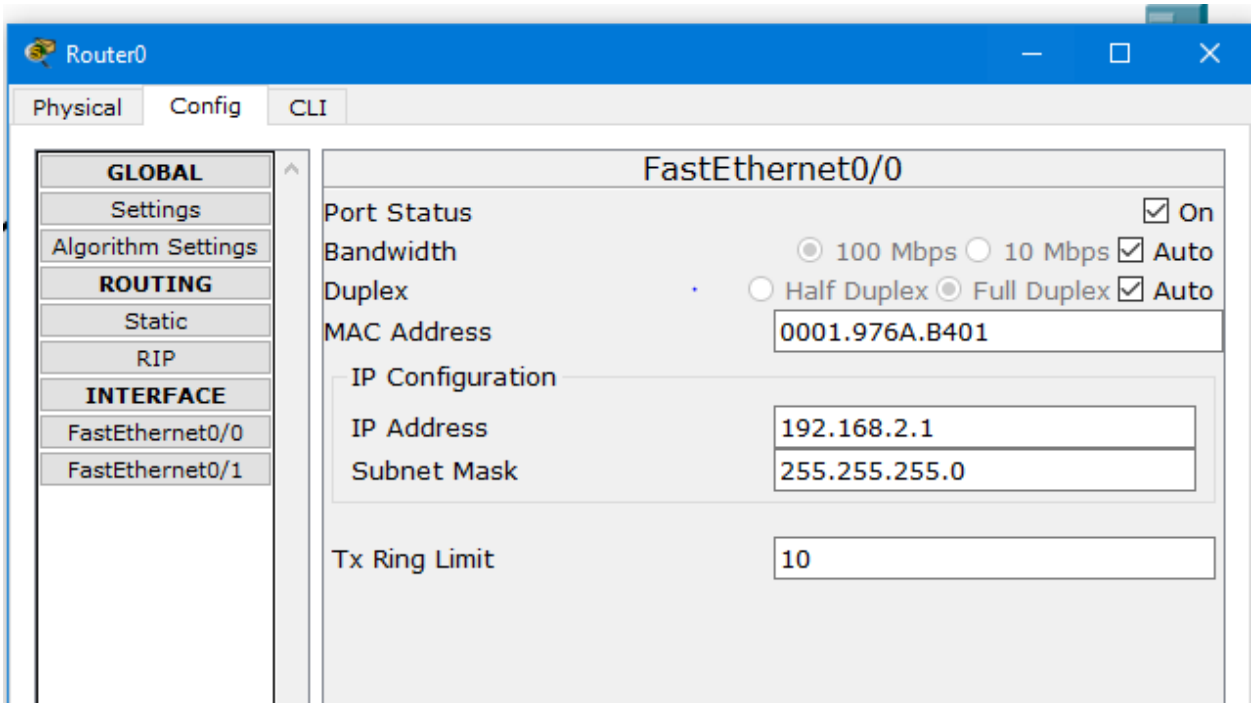
LAB HOMEWORK 04:

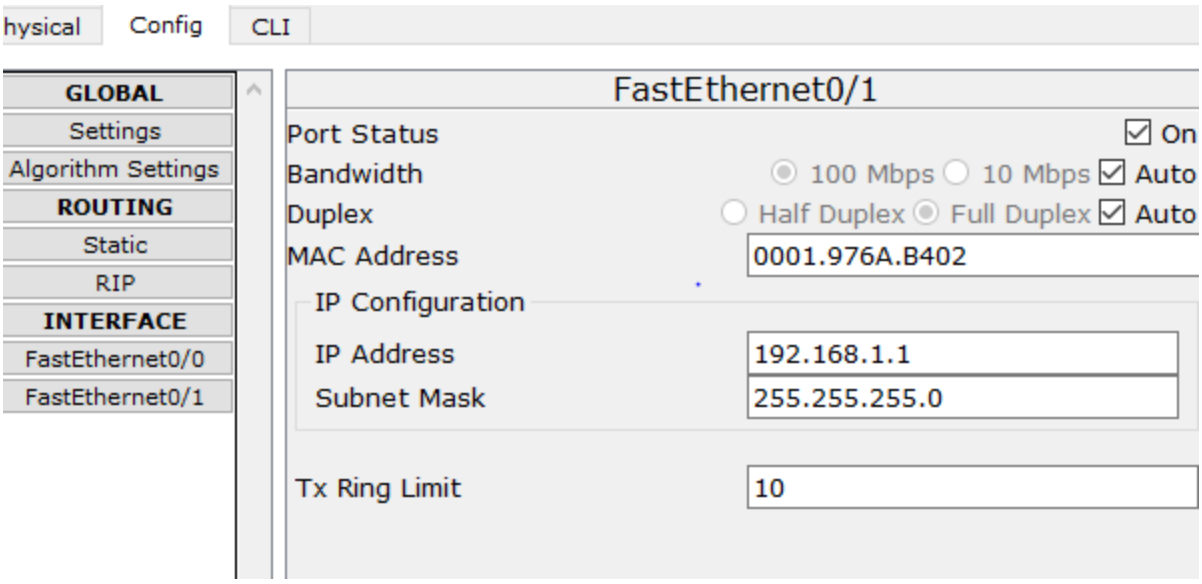
Hostname:

```
Press RETURN to get started!


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

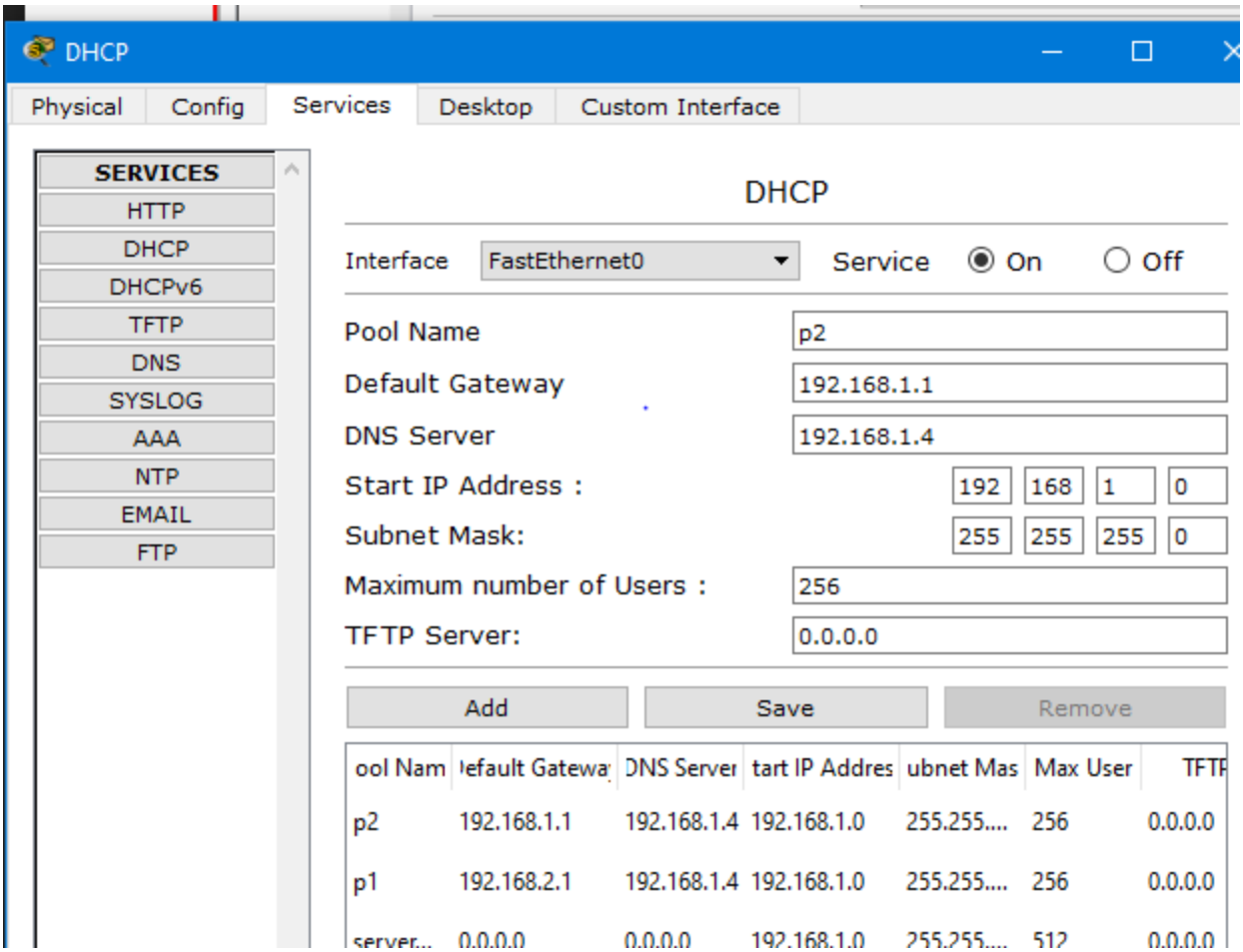
```
Asjid>enable
Asjid#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Asjid(config)#interface f0/0
Asjid(config-if)#ip address 192.168.2.1 255.255.255.0
Asjid(config-if)#ex
Asjid(config)#interface f0/0
Asjid(config-if)#no shutdown

Asjid(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

Asjid(config-if)#interface f0/1
Asjid(config-if)#ex
Asjid(config)#interface f0/1
Asjid(config-if)#ip address 192.168.1.1 255.255.255.0
Asjid(config-if)#no shutdown

Asjid(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to
up
```

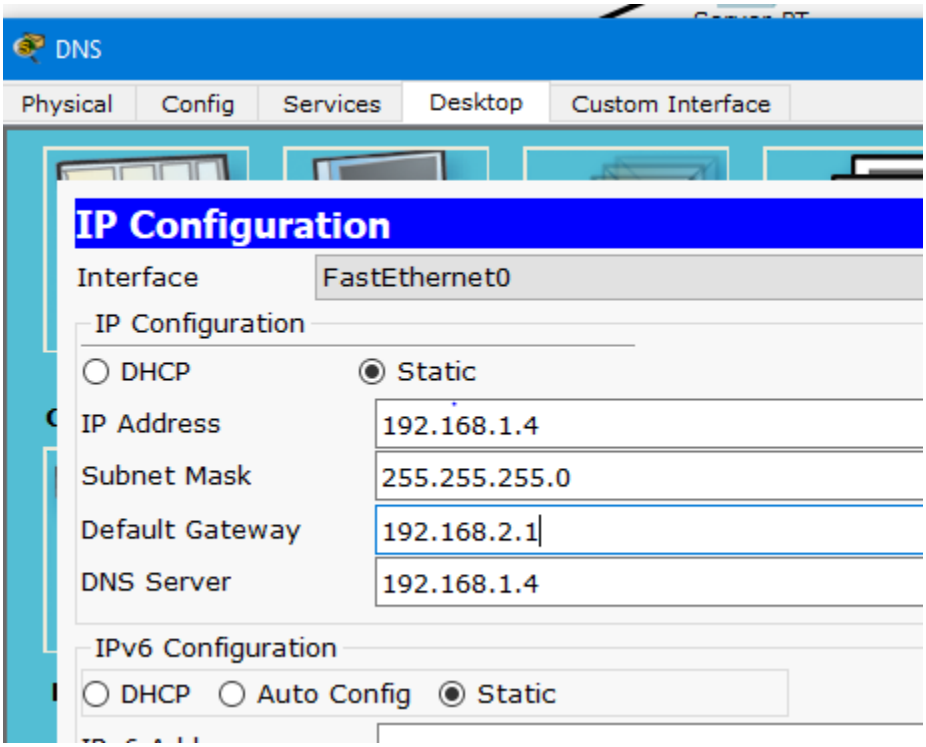

DHCP
Physical
Config
Services
Desktop
Custom Interface
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IP Address
192.168.1.9
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
192.168.1.4
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::202:16FF:FE58:B8AB
IPv6 Gateway
IPv6 DNS Server

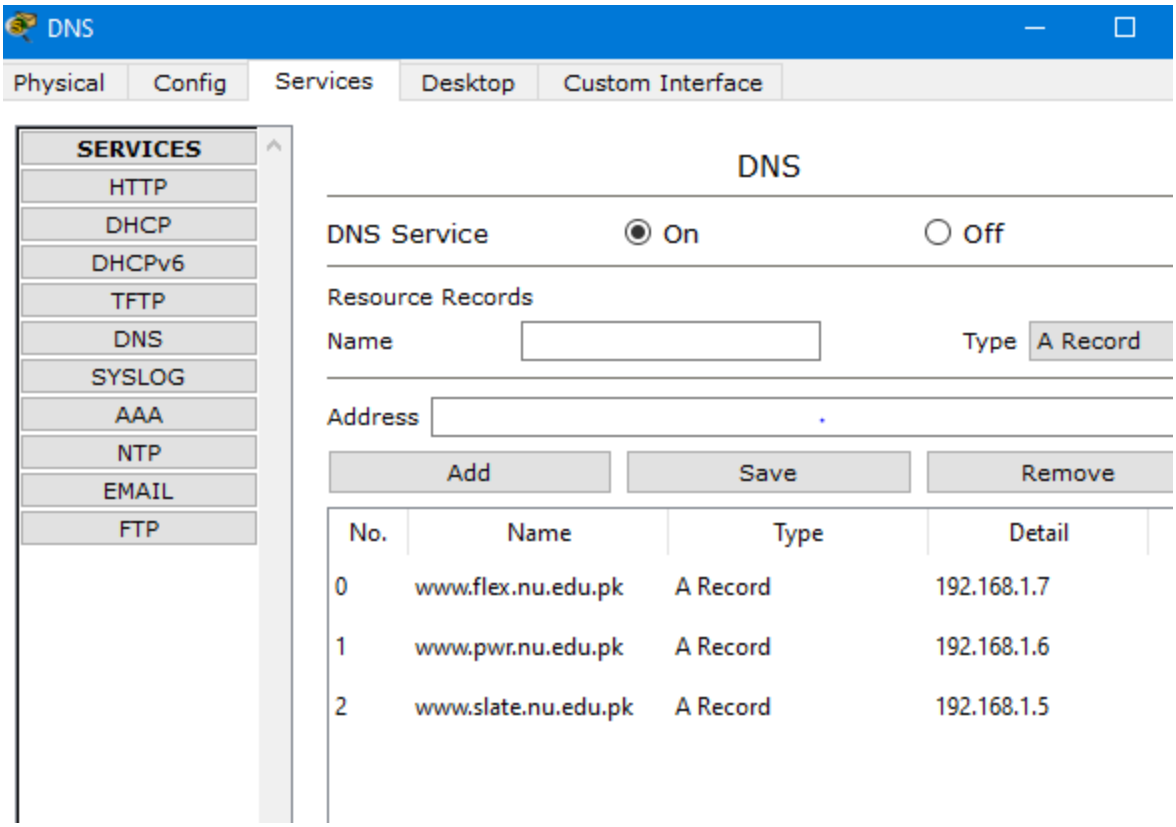

Router0
Physical
Config
CLI
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet0/1
FastEthernet0/0
Port Status
On
Bandwidth
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0001.976A.B401
IP Configuration
IP Address
192.168.2.1
Subnet Mask
255.255.255.0
Tx Ring Limit
10

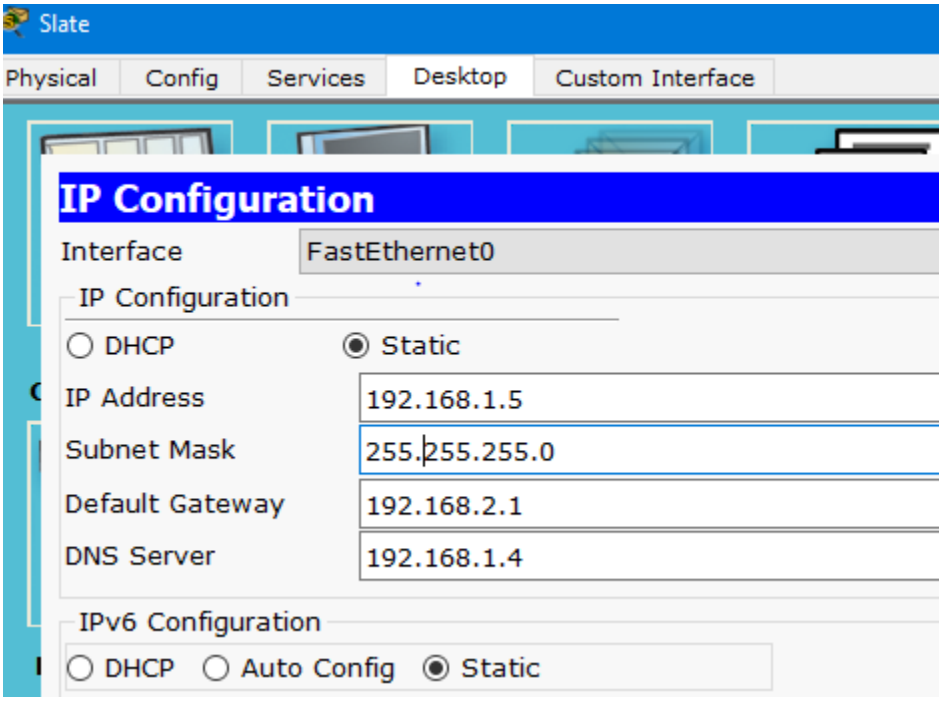


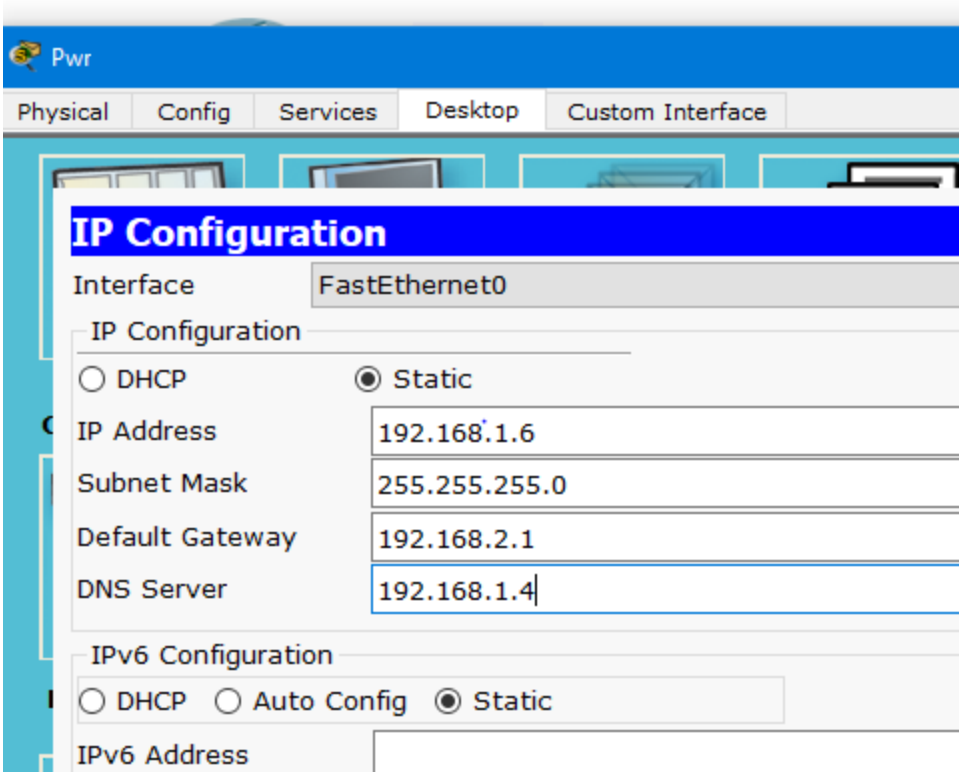

```
Asjid#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Asjid(config)#ip dhcp pool p1
Asjid(dhcp-config)#network 192.168.2.1 255.255.255.0
Asjid(dhcp-config)#default-router 192.168.2.1
Asjid(dhcp-config)#dns-server 192.168.1.4
Asjid(dhcp-config)#ex
Asjid(config)#
Asjid(config)#ip dhcp pool p2
Asjid(dhcp-config)#network 192.168.1.1 255.255.255.0
Asjid(dhcp-config)#default-router 192.168.1.1
Asjid(dhcp-config)#dns-server 192.168.1.4
Asjid(dhcp-config)#ex
Asjid(config)#
Asjid(config)#%DHCPD-4-PING_CONFLICT: DHCP address conflict:  server pinged
192.168.1.1.
```

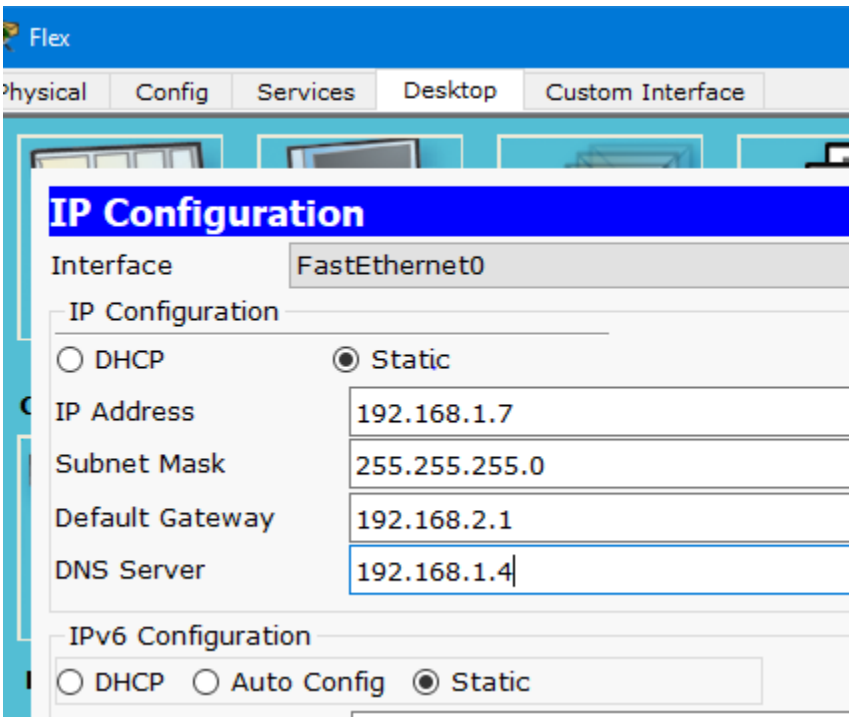

DHCP
Physical
Config
Services
Desktop
Custom Interface
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
DHCP
Interface
FastEthernet0
Service
On
Off
Pool Name
p2
Default Gateway
192.168.1.1
DNS Server
192.168.1.4
Start IP Address :
192
168
1
0
Subnet Mask:
255
255
255
0
Maximum number of Users :
256
TFTP Server:
0.0.0.0
Add
Save
Remove
ool Nam
efault Gatewa
DNS Server
tart IP Addres
ubnet Mas
Max User
TFTP
p2
192.168.1.1
192.168.1.4
192.168.1.0
255.255....
256
0.0.0.0
p1
192.168.2.1
192.168.1.4
192.168.1.0
255.255....
256
0.0.0.0
server...
0.0.0.0
0.0.0.0
192.168.1.0
255.255....
512
0.0.0.0

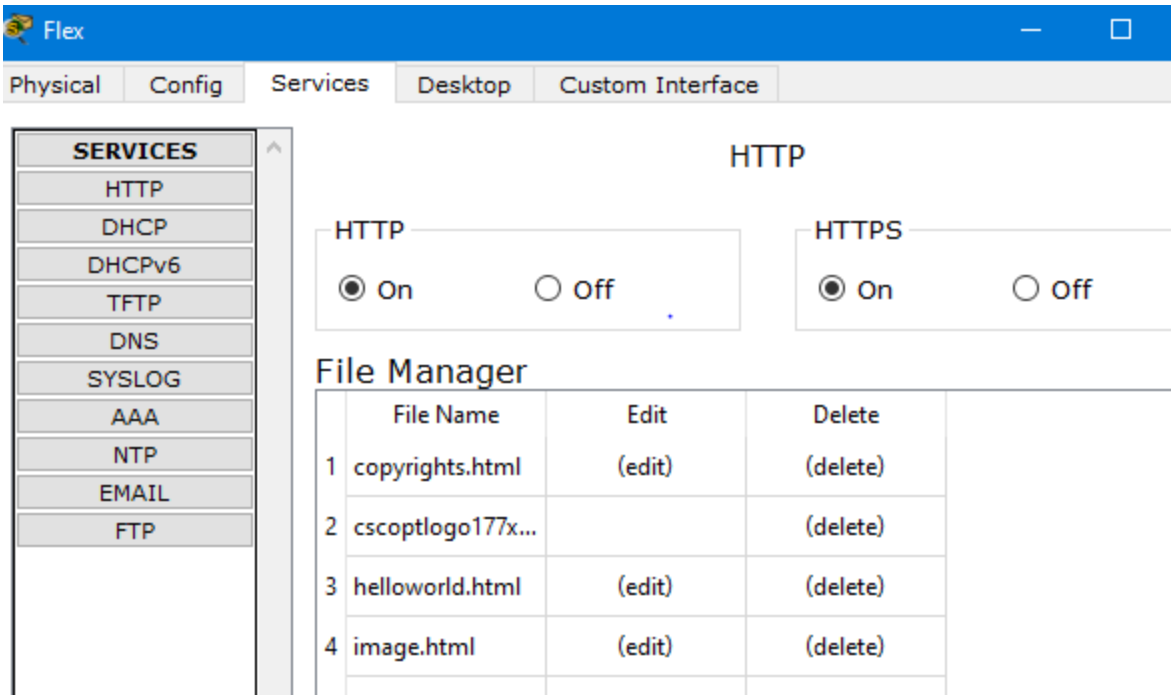

DNS
Physical
Config
Services
Desktop
Custom Interface
IP Configuration
Interface
FastEthernet0
IP Configuration
DHCP
Static
IP Address
192.168.1.4
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
192.168.1.4
IPv6 Configuration
DHCP
Auto Config
Static

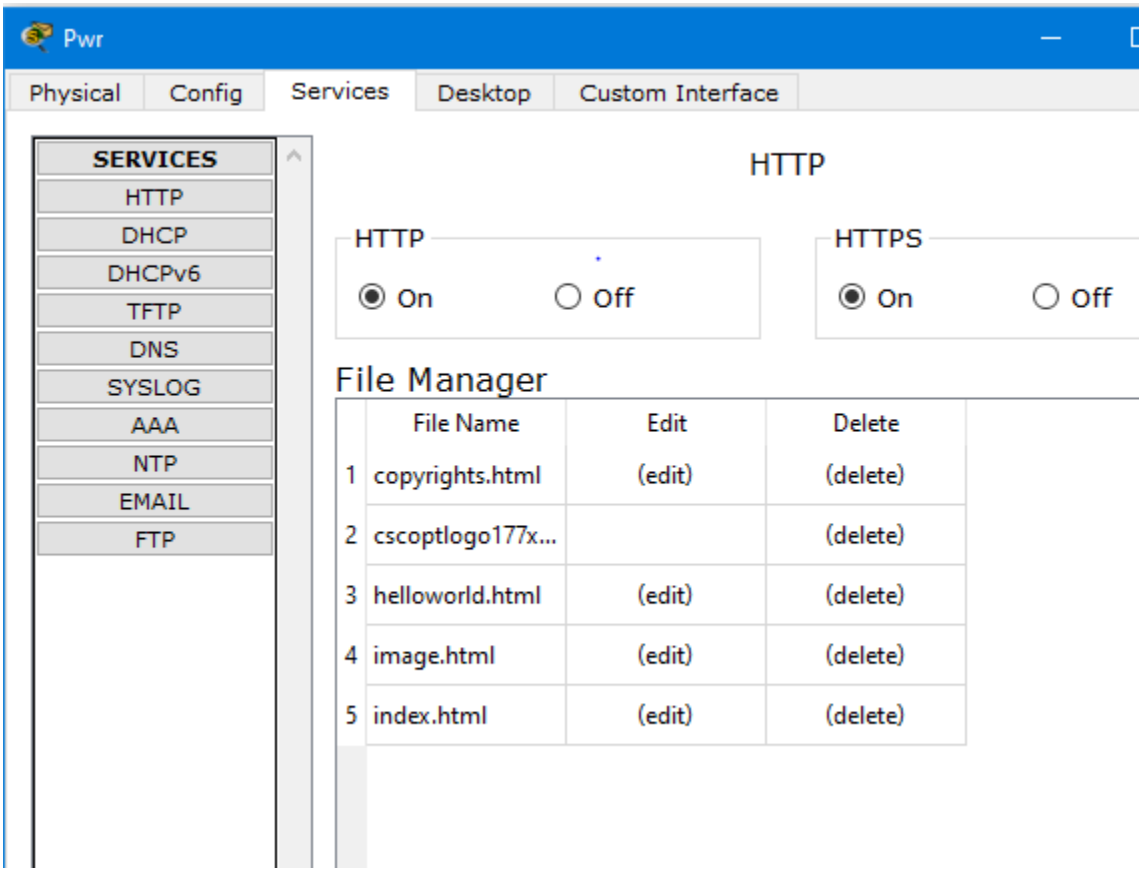

DNS
Physical
Config
Services
Desktop
Custom Interface
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
DNS
DNS Service
On
Off
Resource Records
Name
Type
A Record
Address
Add
Save
Remove
No.
Name
Type
Detail
0
www.flex.nu.edu.pk
A Record
192.168.1.7
1
www.pwr.nu.edu.pk
A Record
192.168.1.6
2
www.slate.nu.edu.pk
A Record
192.168.1.5

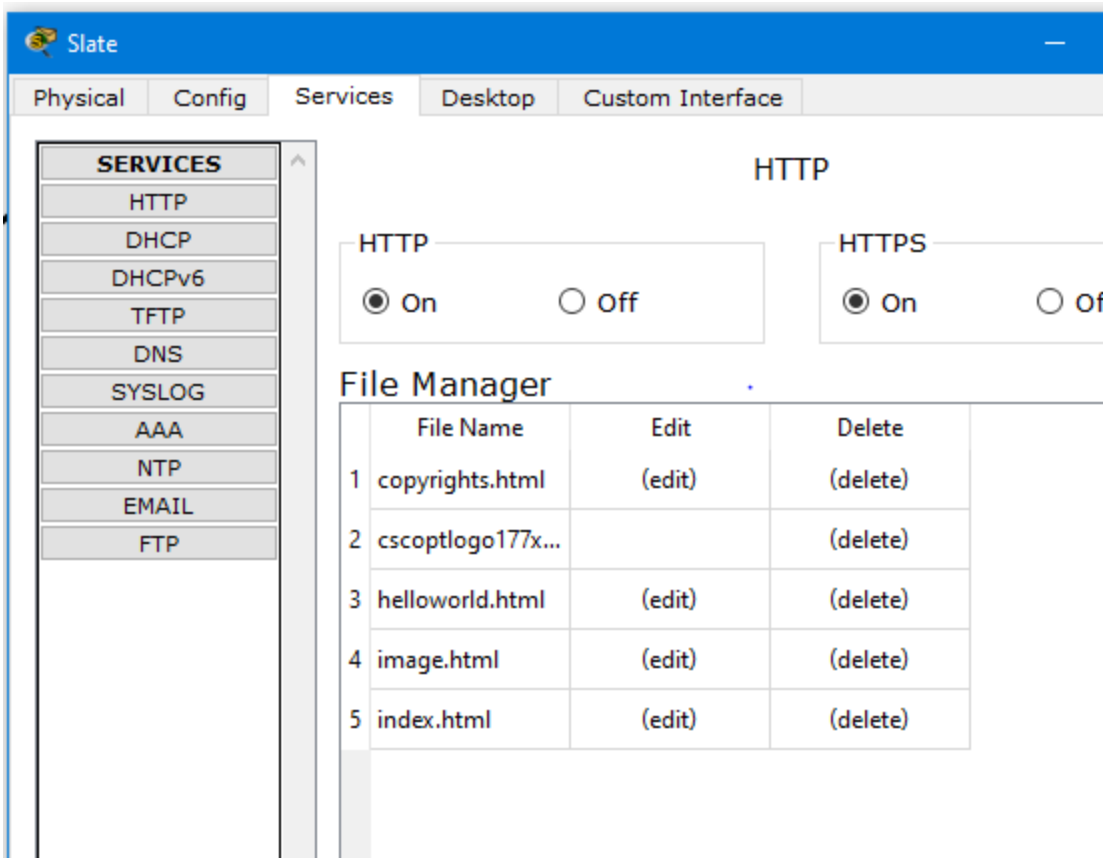

Slate
Physical
Config
Services
Desktop
Custom Interface
IP Configuration
Interface
FastEthernet0
IP Configuration
DHCP
Static
IP Address
192.168.1.5
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
192.168.1.4
IPv6 Configuration
DHCP
Auto Config
Static

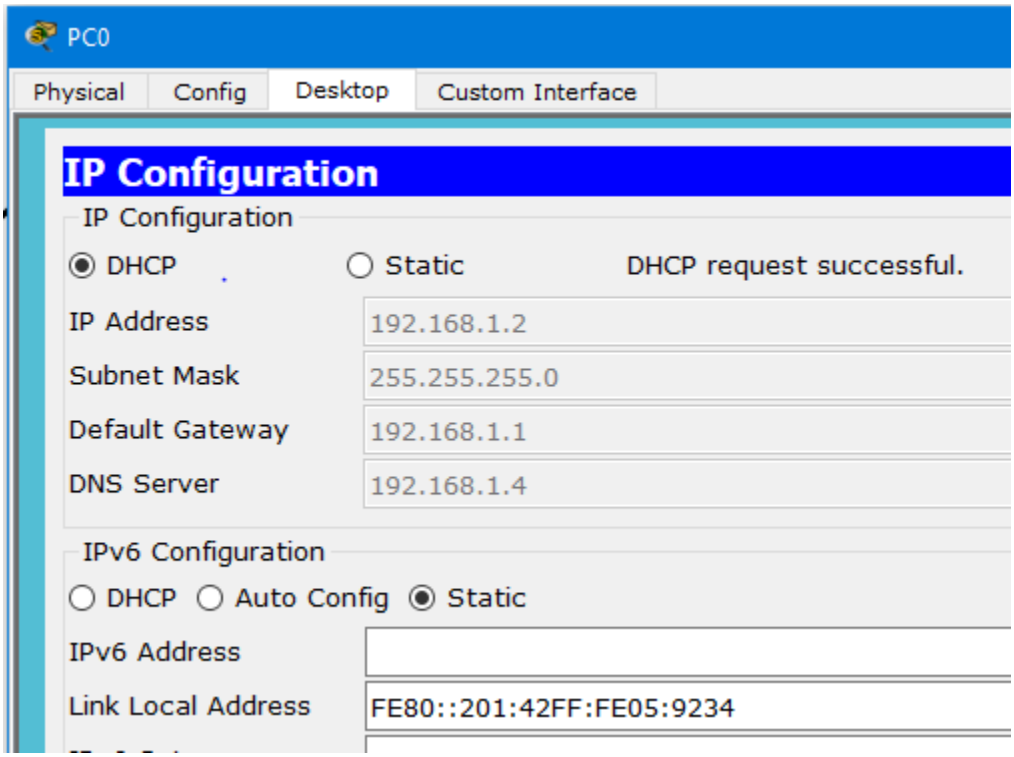

Pwr
Physical
Config
Services
Desktop
Custom Interface
IP Configuration
Interface
FastEthernet0
IP Configuration
DHCP
Static
IP Address
192.168.1.6
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
192.168.1.4
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address

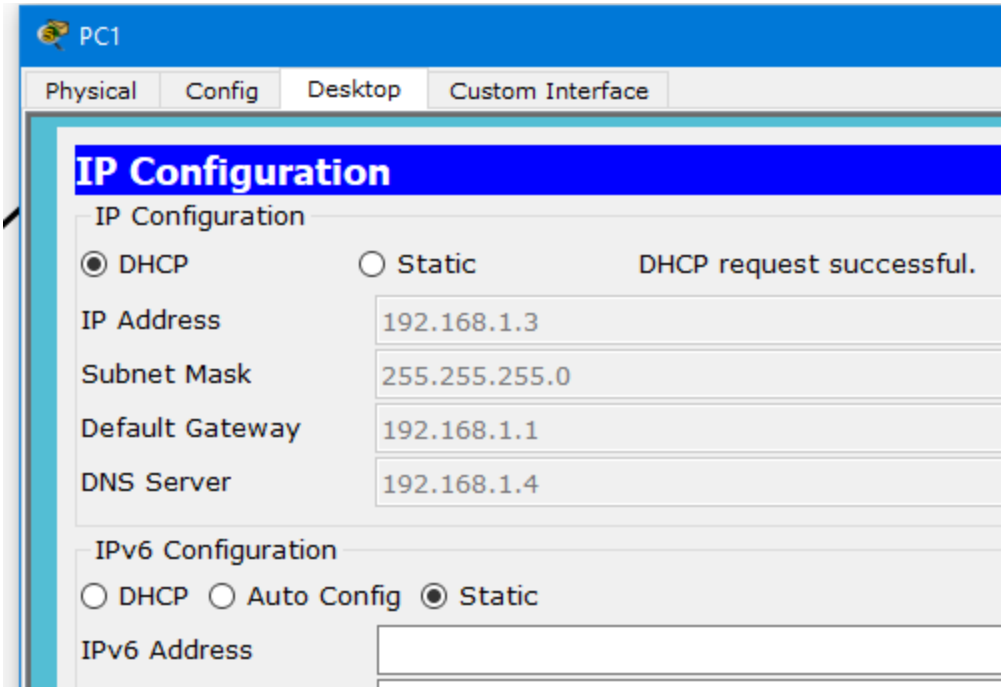

Flex
Physical
Config
Services
Desktop
Custom Interface
IP Configuration
Interface
FastEthernet0
IP Configuration
DHCP
Static
IP Address
192.168.1.7
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
192.168.1.4
IPv6 Configuration
DHCP
Auto Config
Static

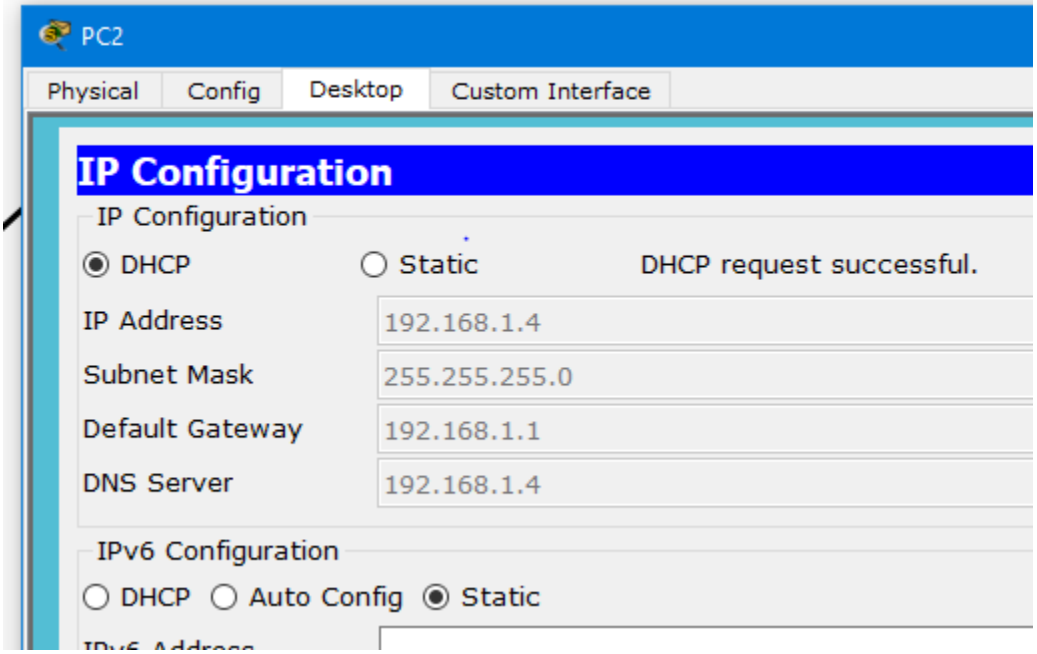

Flex
Physical
Config
Services
Desktop
Custom Interface
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
HTTP
HTTP
On
Off
HTTPS
On
Off
File Manager
File Name
Edit
Delete
1 copyrights.html (edit) (delete)
2 cscoptlogo177x... (delete)
3 helloworld.html (edit) (delete)
4 image.html (edit) (delete)

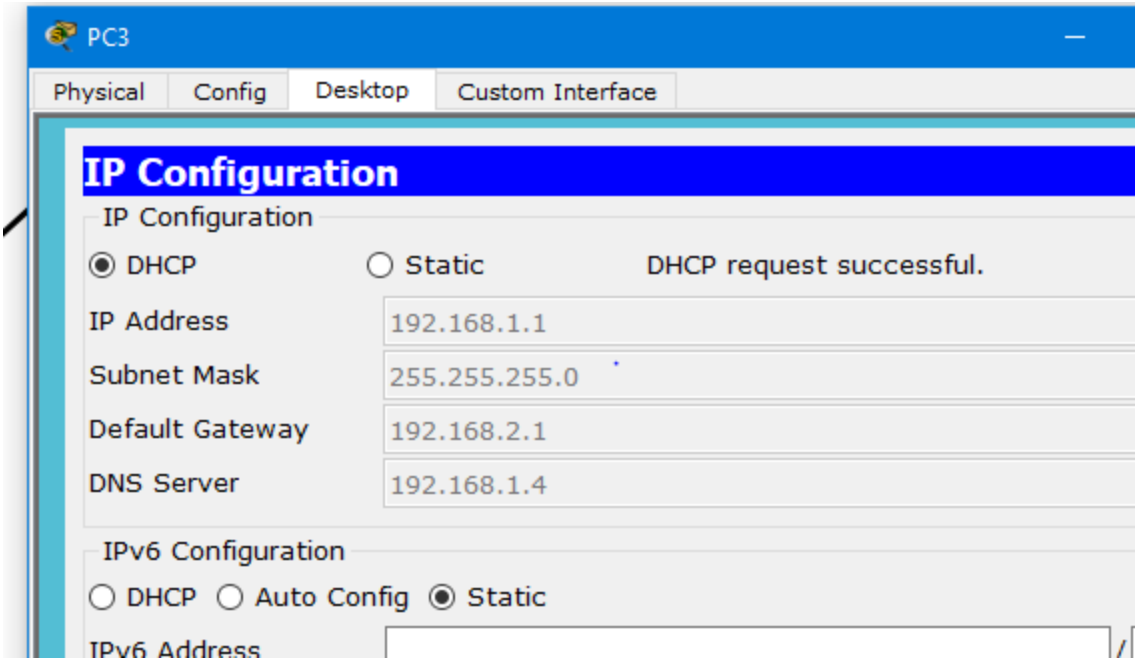

Pwr
Physical
Config
Services
Desktop
Custom Interface
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
HTTP
HTTP
On
Off
HTTPS
On
Off
File Manager
File Name
Edit
Delete
1 copyrights.html (edit) (delete)
2 cscoptlogo177x... (delete)
3 helloworld.html (edit) (delete)
4 image.html (edit) (delete)
5 index.html (edit) (delete)

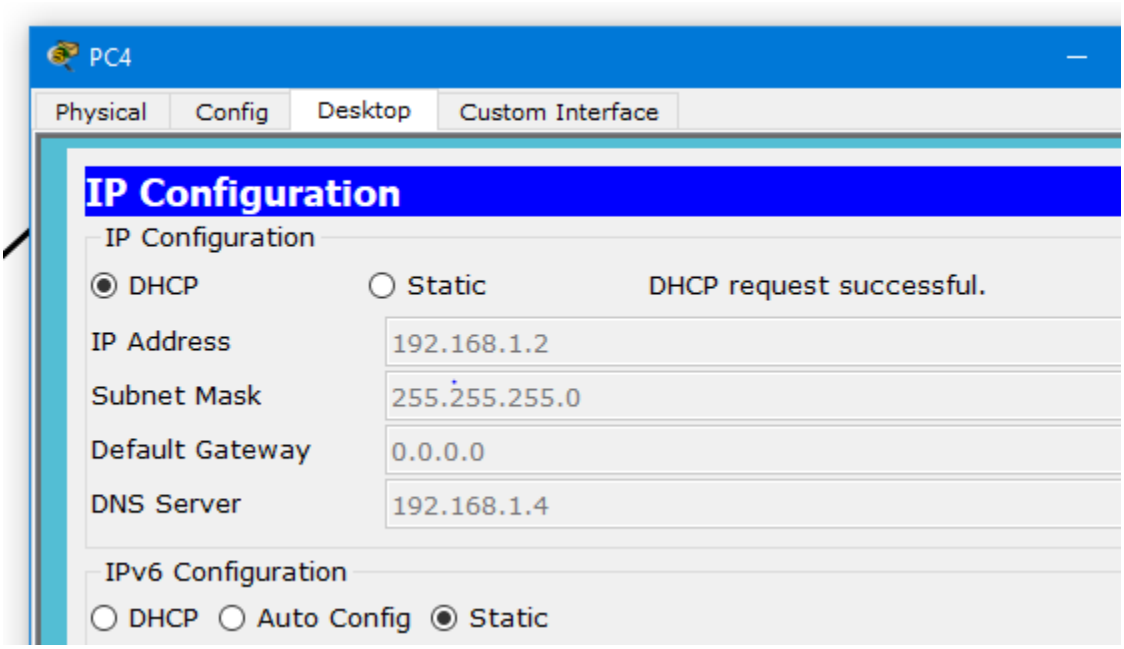

Slate
Physical
Config
Services
Desktop
Custom Interface
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
HTTP
HTTP
On
Off
HTTPS
On
File Manager
File Name
Edit
Delete
1 copyrights.html (edit) (delete)
2 cscoptlogo177x... (delete)
3 helloworld.html (edit) (delete)
4 image.html (edit) (delete)
5 index.html (edit) (delete)

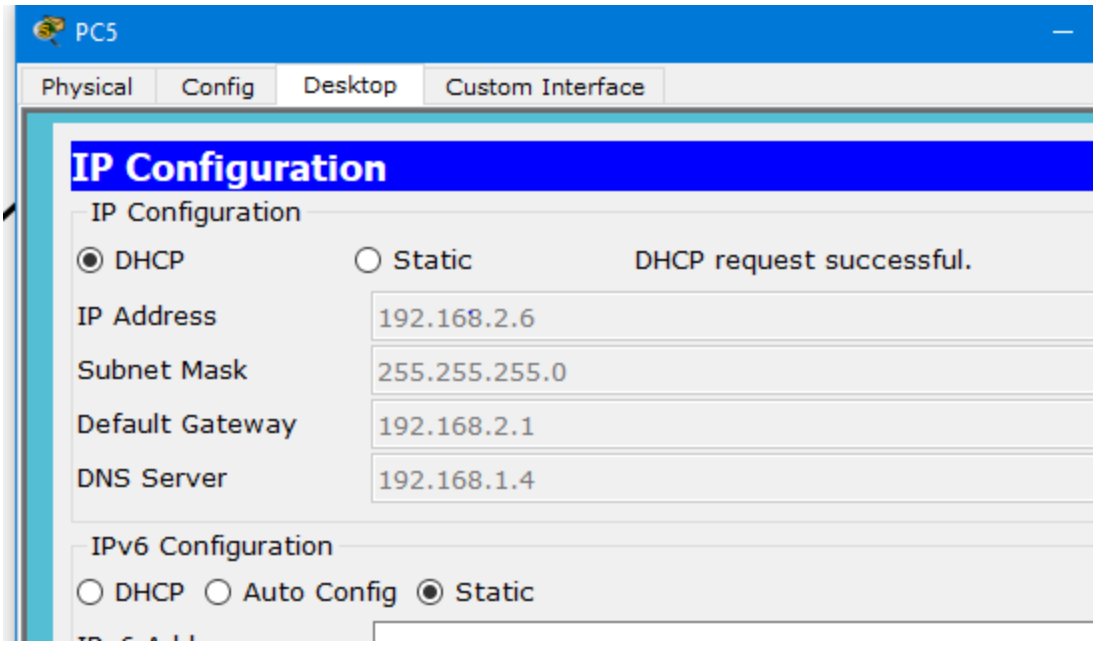

PC0
Physical
Config
Desktop
Custom Interface
IP Configuration
IP Configuration
DHCP
Static
DHCP request successful.
IP Address
192.168.1.2
Subnet Mask
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
192.168.1.4
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::201:42FF:FE05:9234

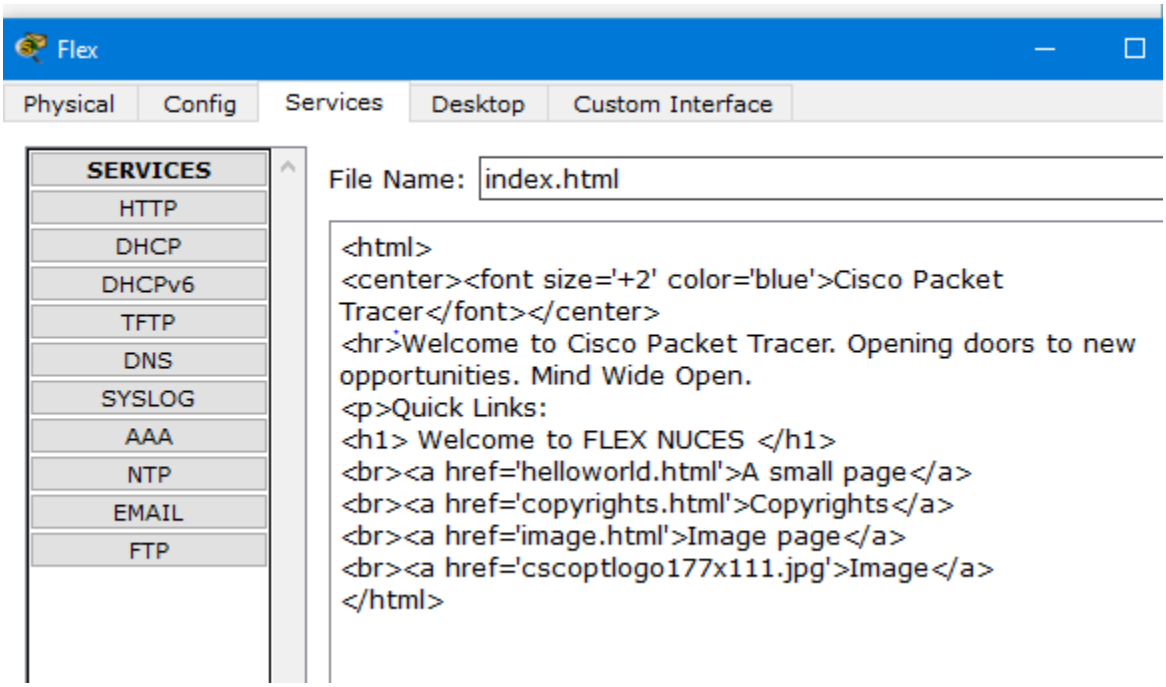

PC1
Physical
Config
Desktop
Custom Interface
IP Configuration
IP Configuration
DHCP
Static
DHCP request successful.
IP Address
192.168.1.3
Subnet Mask
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
192.168.1.4
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address


PC2
Physical
Config
Desktop
Custom Interface
IP Configuration
IP Configuration
DHCP
Static
DHCP request successful.
IP Address
192.168.1.4
Subnet Mask
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
192.168.1.4
IPv6 Configuration
DHCP
Auto Config
Static


PC3
Physical
Config
Desktop
Custom Interface
IP Configuration
IP Configuration
DHCP
Static
DHCP request successful.
IP Address
192.168.1.1
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
192.168.1.4
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address


PC4
Physical
Config
Desktop
Custom Interface
IP Configuration
IP Configuration
DHCP
Static
DHCP request successful.
IP Address
192.168.1.2
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
192.168.1.4
IPv6 Configuration
DHCP
Auto Config
Static


PC5
Physical
Config
Desktop
Custom Interface
IP Configuration
IP Configuration
DHCP
Static
DHCP request successful.
IP Address
192.168.2.6
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
192.168.1.4
IPv6 Configuration
DHCP
Auto Config
Static

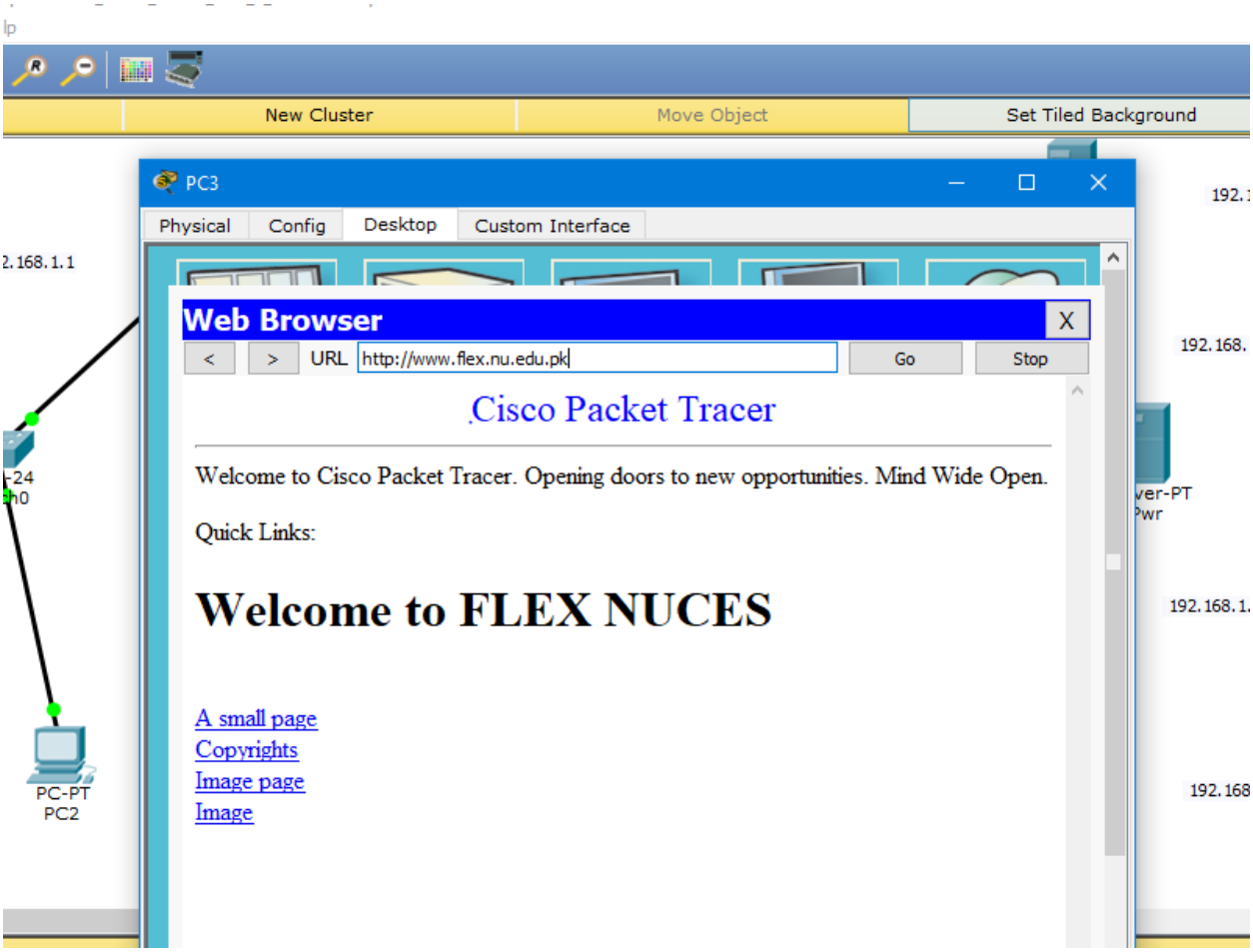

Flex
Physical
Config
Services
Desktop
Custom Interface
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
File Name: index.html
<html>
<font size='+2' color='blue'>Cisco Packet Tracer</font>
<hr>Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
<p>Quick Links:
<h1> Welcome to FLEX NUCES </h1>

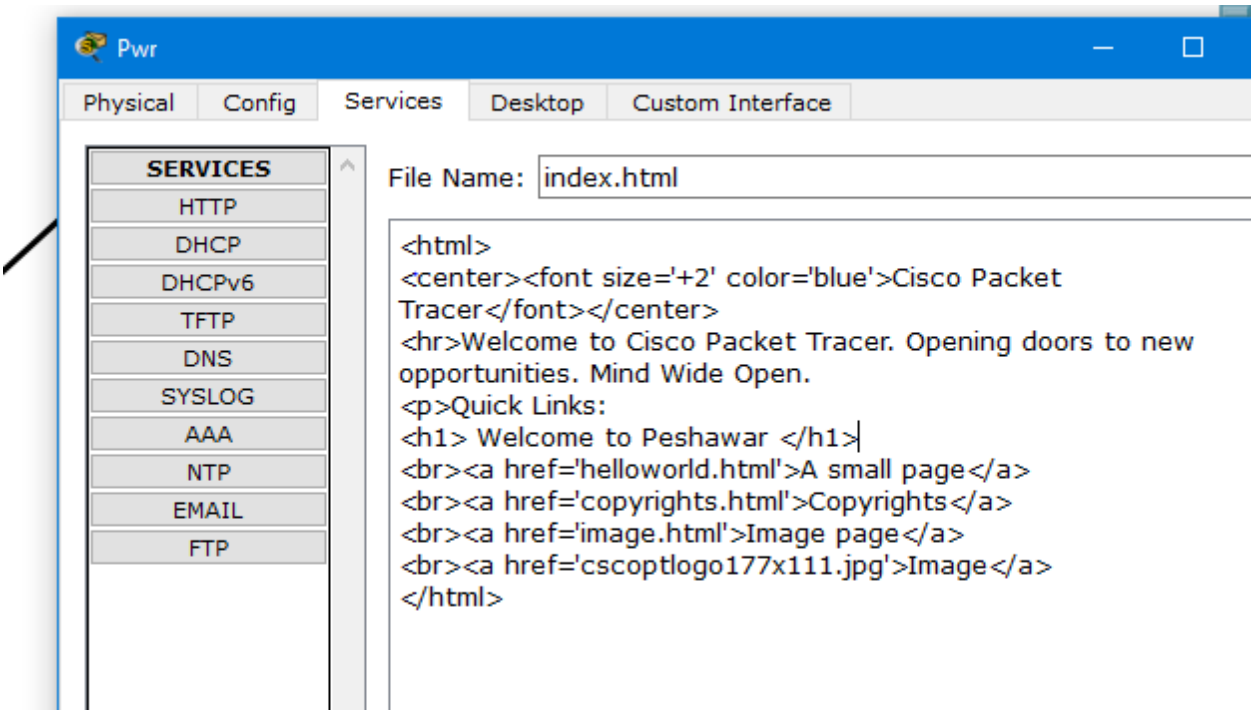
<a href='helloworld.html'>A small page</a>

<a href='copyrights.html'>Copyrights</a>

<a href='image.html'>Image page</a>

<a href='cscoptlogo177x111.jpg'>Image</a>
</html>


New Cluster
Move Object
Set Tiled Background
PC3
Physical
Config
Desktop
Custom Interface
Web Browser
X
URL
http://www.flex.nu.edu.pk
Go
Stop
Cisco Packet Tracer
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
Quick Links:
Welcome to FLEX NUCES
A small page
Copyrights
Image page
Image
PC-PT
PC2
192.168.1.1
192.168.
192.168.1.
192.168

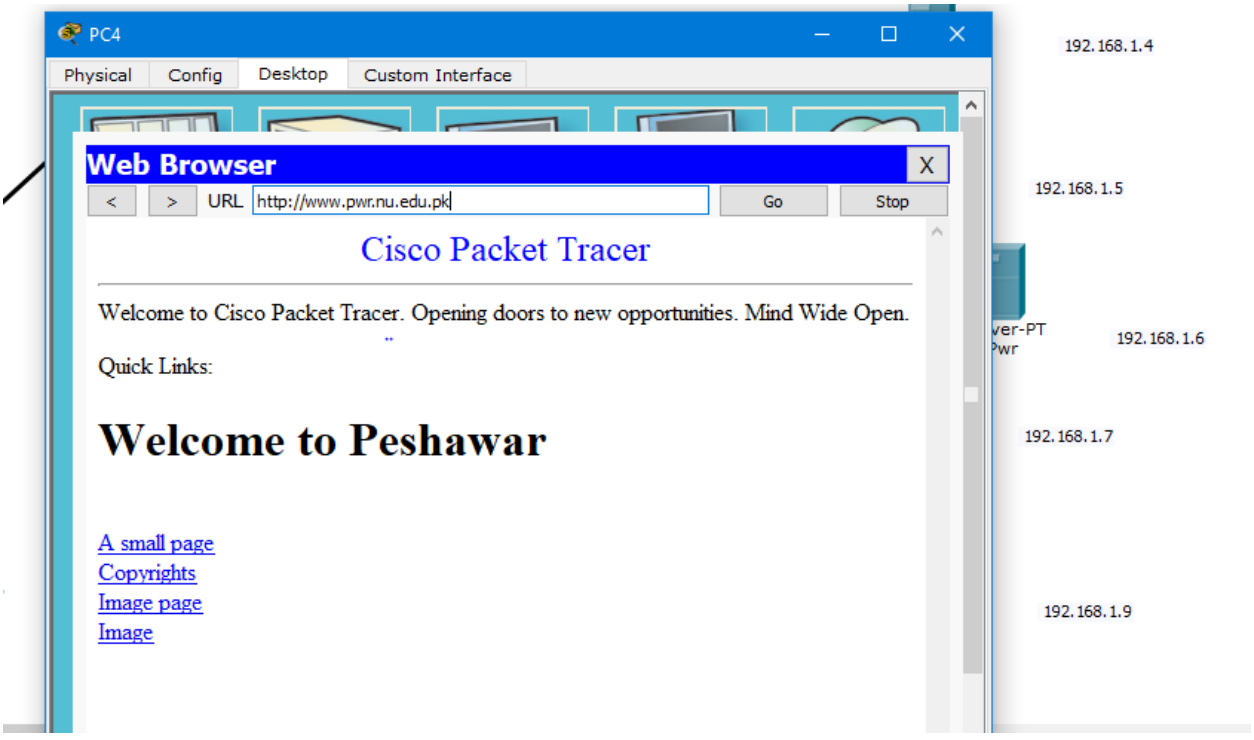

Pwr
Physical
Config
Services
Desktop
Custom Interface
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
File Name: index.html
<html>
<font size='+2' color='blue'>Cisco Packet Tracer</font>
<hr>Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
<p>Quick Links:
<h1> Welcome to Peshawar </h1>

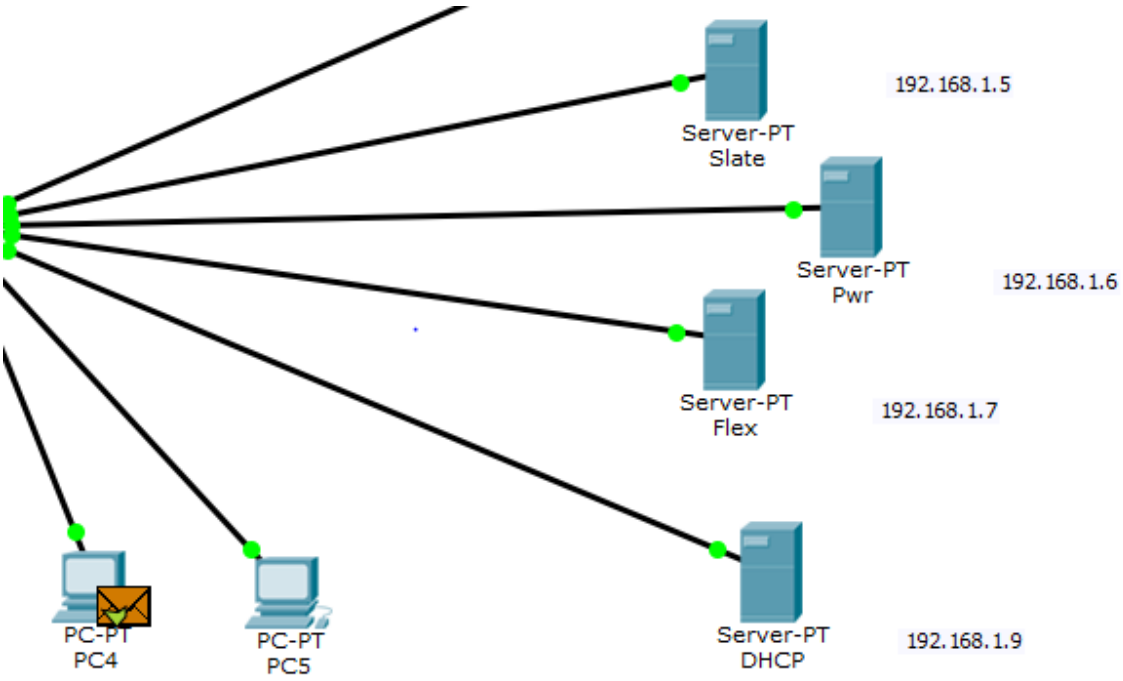
<a href='helloworld.html'>A small page</a>

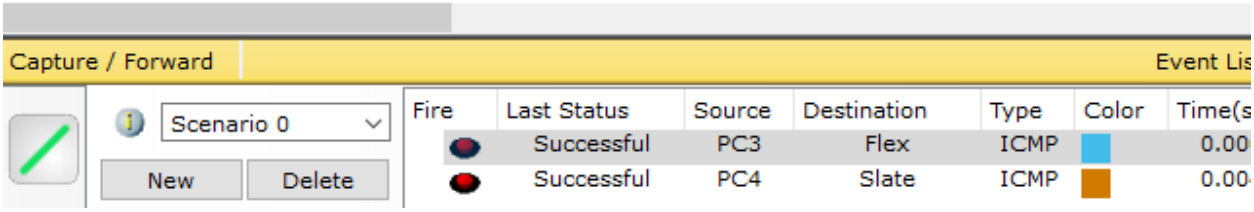
<a href='copyrights.html'>Copyrights</a>

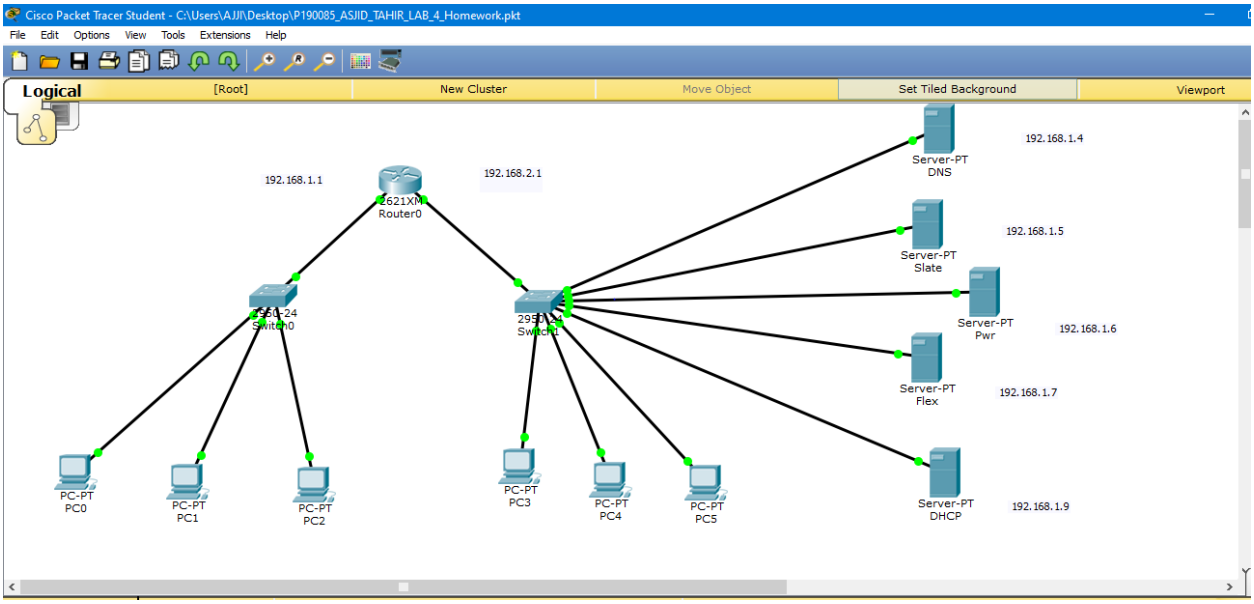
<a href='image.html'>Image page</a>

<a href='cscoptlogo177x111.jpg'>Image</a>
</html>


PC4
Physical
Config
Desktop
Custom Interface
Web Browser
X
URL
http://www.pwr.nu.edu.pk
Go
Stop
Cisco Packet Tracer
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
Quick Links:
Welcome to Peshawar
A small page
Copyrights
Image page
Image
192.168.1.4
192.168.1.5
192.168.1.6
192.168.1.7
192.168.1.9


Server-PT
Slate
192.168.1.5
Server-PT
Pwr
192.168.1.6
Server-PT
Flex
192.168.1.7
PC-PT
PC4
PC-PT
PC5
Server-PT
DHCP
192.168.1.9


Capture / Forward
Event Lis
Scenario 0
New
Delete
Fire
Last Status
Source
Destination
Type
Color
Time(s
Successful
PC3
Flex
ICMP
0.00
Successful
PC4
Slate
ICMP
0.00


Cisco Packet Tracer Student - C:\Users\AJJI\Desktop\P190085_ASJID_TAHIR_LAB_4_Homework.pkt
File
Edit
Options
View
Tools
Extensions
Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
192.168.1.1
192.168.2.1
Router0
Switch0
Switch1
Server-PT
DNS
192.168.1.4
Server-PT
Slate
192.168.1.5
Server-PT
Pwr
192.168.1.6
Server-PT
Flex
192.168.1.7
Server-PT
DHCP
192.168.1.9
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
PC-PT
PC3
PC-PT
PC4
PC-PT
PC5

POINT 07:

Part a:

When we give **Internet protocol** (IP) is not send to DNS, it goes to **web server** (that we created).

Part b:

The URL is first go to **DNS Server** and then back to our **pc** and then go to the **web server** when we done it first time.