21162121017_BDA

CN

Prac-5

BATCH-54

AIM – TO GET REMOTE ACCESS USING TELNET, SSH AND FILE TRANSFER USING FTP

Design the network of an organization having 5 different departments. Make sure the below mentioned requirements must be fulfilled.

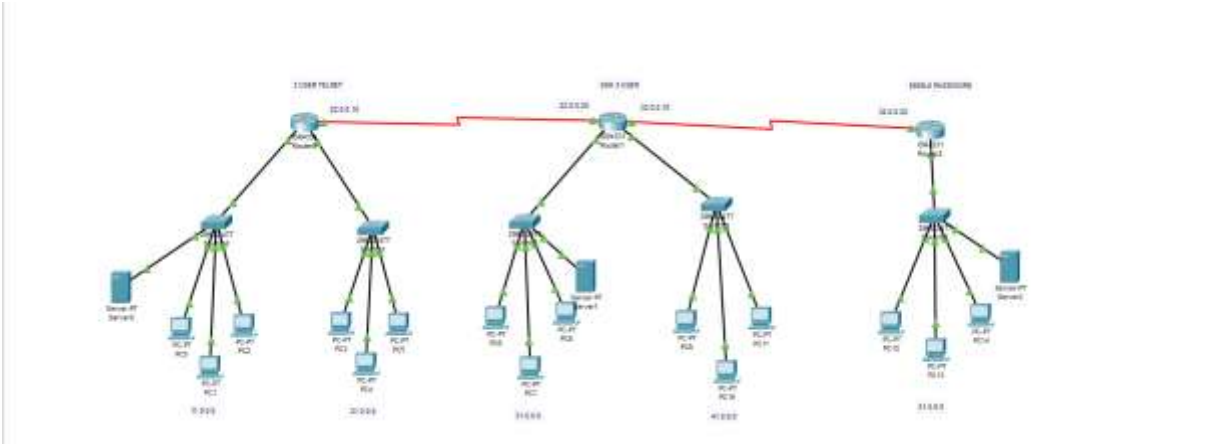
1) Create 3 users which will be able to get the access of the router using Telnet.

2) Create a single password to get the access of the router using Telnet.

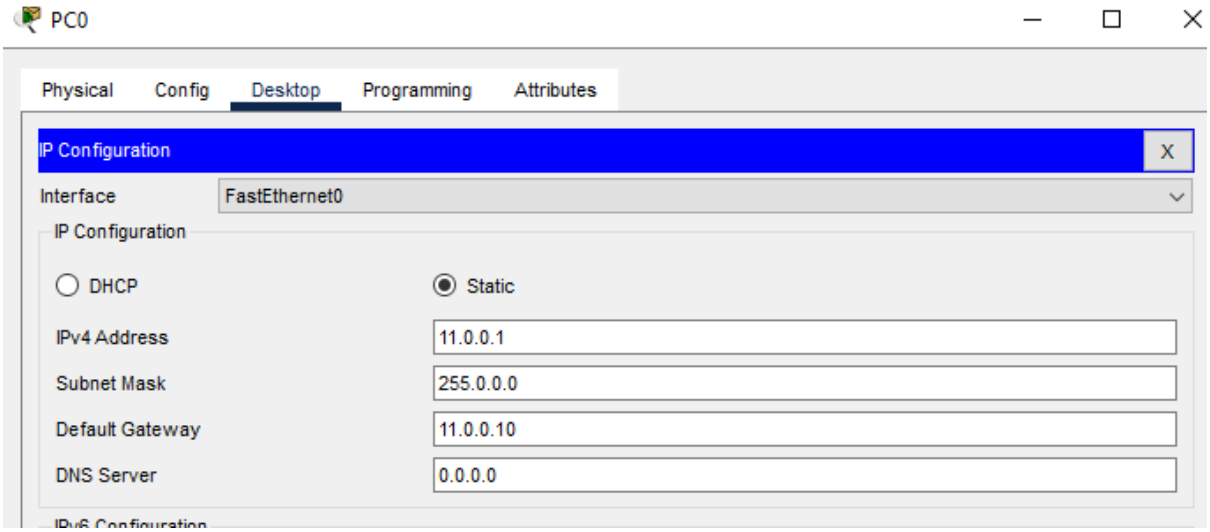
3) Create 3 users which will be able to get the access of the router using SSH.

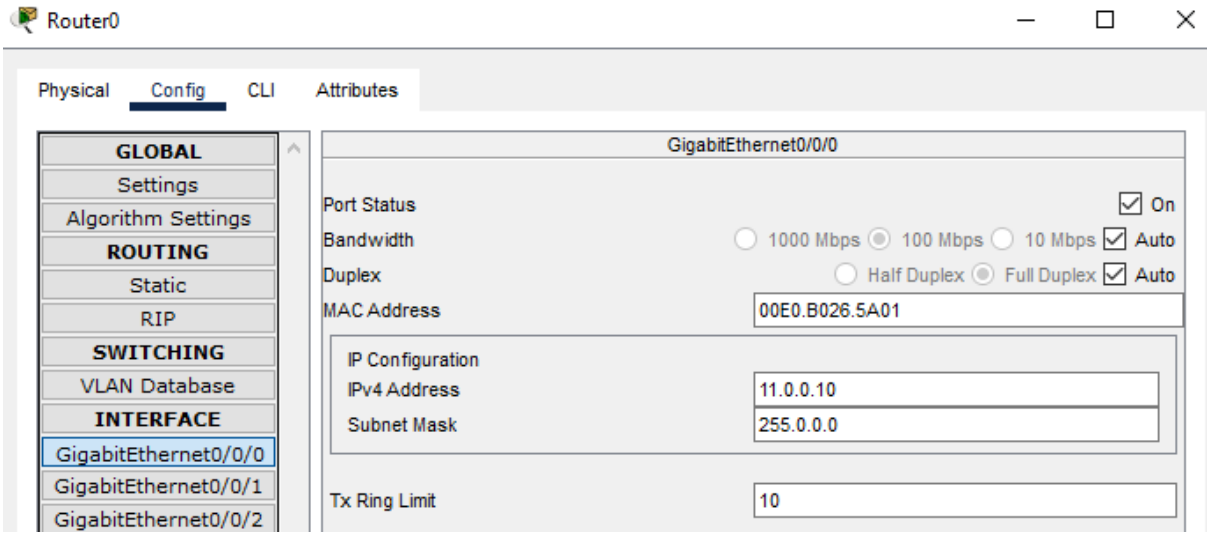
4) Create a FTP server and perform the operation to upload and download a file. And explore all the operation available with the ftp server.

STEP 1) Create Network

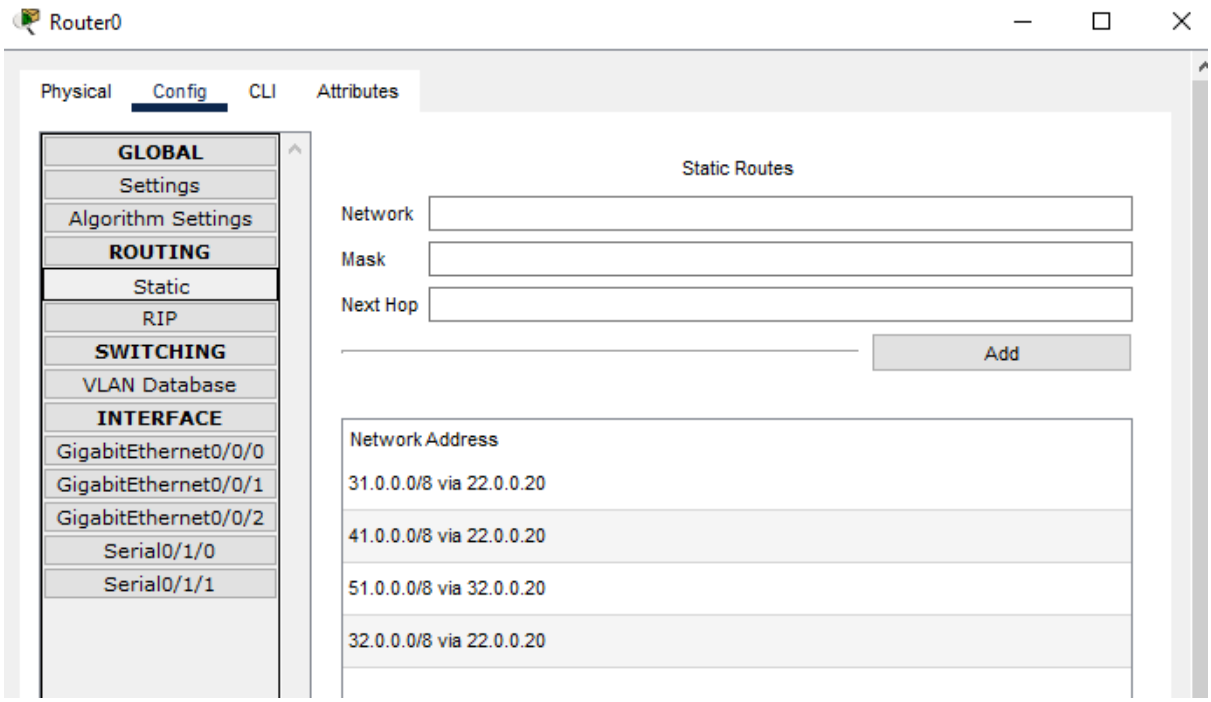


STEP 2) Assign Ip’s





STEP 3) Connect Routers



STEP 4) To set up telnet with only 1 password

```
Router>en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#line vty 0 15
Router(config-line)#password telnet@1234
Router(config-line)#login
Router(config-line)#exit
Router(config)#enable password ROUT1
Router(config)#exit
Router#
```

```
Cisco Packet Tracer PC Command Line 1.0
C:\>telnet 51.0.0.10
Trying 51.0.0.10 ...Open


User Access Verification

Password:
Password:
Router>ROUT1
Translating "ROUT1"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

Router>en
Password:
Router#
```

STEP 5) To set up telnet with 3 users

```
Router>en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#username user1 password user1
Router(config)#username user2 password user2
Router(config)#username user3 password user3
Router(config)#line vty 0 15
Router(config-line)#login local
Router(config-line)#exit
Router(config)#enable password ROUT0
Router(config)#
```

```
Cisco Packet Tracer PC Command Line 1.0
C:\>telnet 11.0.0.10
Trying 11.0.0.10 ...Open


User Access Verification

Username: user1
Password:
% Login invalid

Username: user1
Password:
Router>en
Password:
Router#
```

```
Cisco Packet Tracer PC Command Line 1.0
C:\>telnet 21.0.0.10
Trying 21.0.0.10 ...Open


User Access Verification

Username: user2
Password:
Router>en
Password:
Password:
Password:
Router#
```

STEP 6) To set up SSH with 3 users

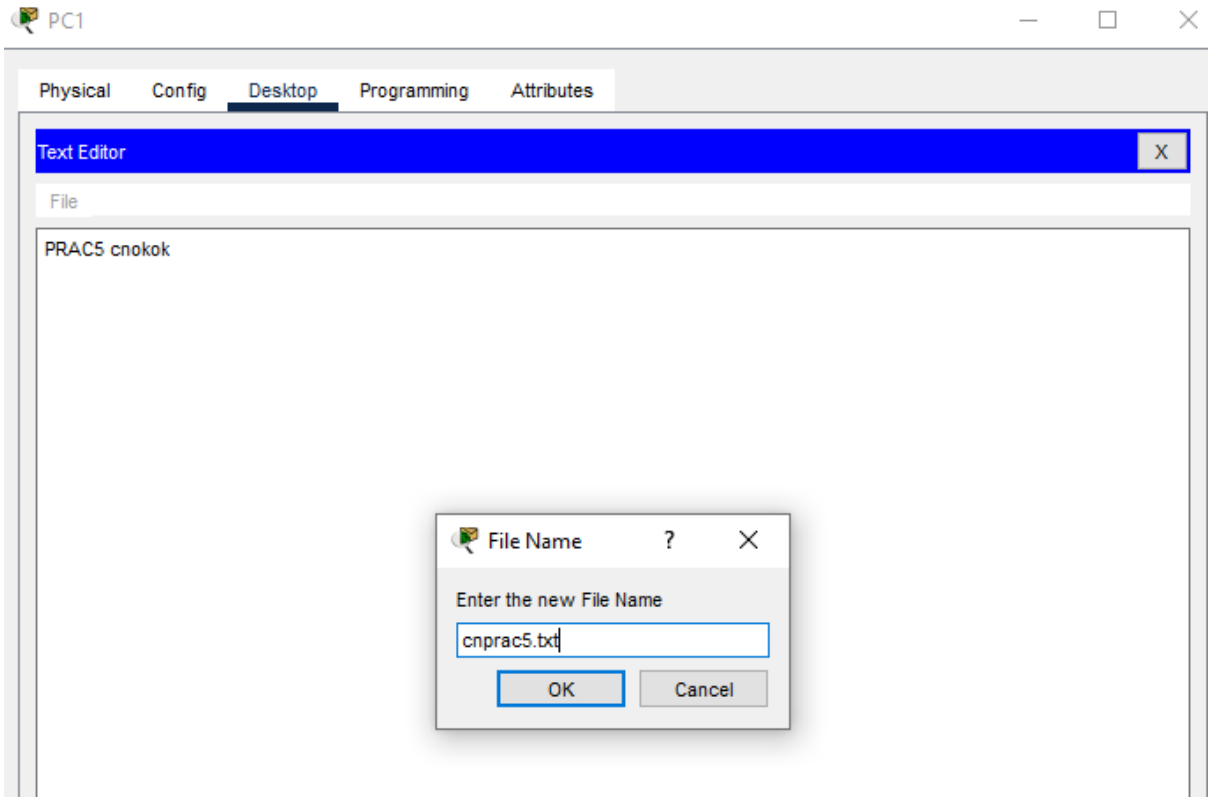
```
Router>en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#username Munish password Munish
```

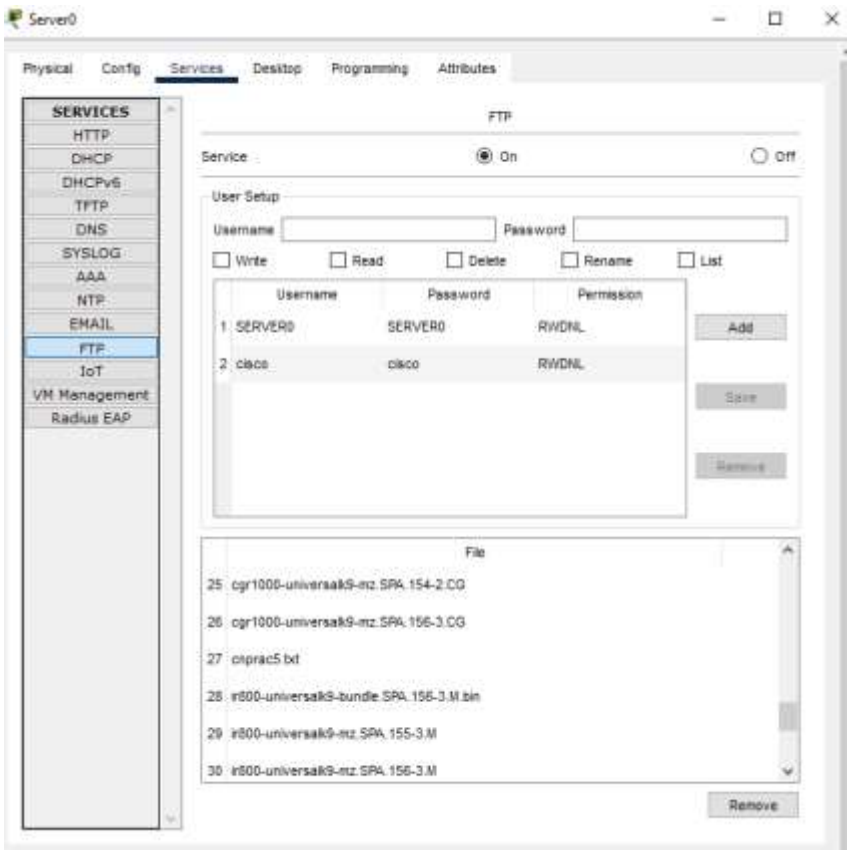
```
Router(config)#hostname ROUTSSH
ROUTSSH(config)#crypto key generate rsa
% Please define a domain-name first.
ROUTSSH(config)#ip domain-name Trying.com
ROUTSSH(config)#crypto key generate rsa
The name for the keys will be: ROUTSSH.Trying.com
Choose the size of the key modulus in the range of 360 to 4096 for your
  General Purpose Keys. Choosing a key modulus greater than 512 may take
  a few minutes.

How many bits in the modulus [512]: 1024
% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]

ROUTSSH(config)#username Munish2 password Munish2
*Mar 1 0:12:42.941: %SSH-5-ENABLED: SSH 1.99 has been enabled
ROUTSSH(config)#username Patwa password Patwa
ROUTSSH(config)#line vty 0 15
ROUTSSH(config-line)#transport input ssh
ROUTSSH(config-line)#password SSH@1234
ROUTSSH(config-line)#exit
ROUTSSH(config)#enable password ROUTSSH
ROUTSSH(config)#
```

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ssh -l Patwa 41.0.0.10

Password:



ROUTSSH>en
Password:
ROUTSSH#
```

```
C:\>ssh -l Munish 31.0.0.10

Password:

Password:



ROUTSSH>en
Password:
ROUTSSH#
```

STEP 7) To set up FTP


PC1
Physical
Config
Desktop
Programming
Attributes
Text Editor
X
File
PRAC5 cnokok
File Name
?
Enter the new File Name
cnprac5.txt
OK
Cancel


Server0
Physical
Config
Services
Desktop
Programming
Attributes
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP
FTP
Service
On
Off
User Setup
Username
Password
Write
Read
Delete
Rename
List
Username
Password
Permission
1 SERVER0 SERVER0 RWDNL
2 cisco cisco RWDNL
Add
Save
Remove
File
25 cgr1000-universalk9-mz.SPA.154-2.CG
26 cgr1000-universalk9-mz.SPA.156-3.CG
27 cnprac5.txt
28 ir800-universalk9-bundle.SPA.156-3.M.bin
29 ir800-universalk9-mz.SPA.155-3.M
30 ir800-universalk9-mz.SPA.156-3.M
Remove

```
C:\>ftp 11.0.0.20
Trying to connect...11.0.0.20
Connected to 11.0.0.20
220- Welcome to PT Ftp server
Username:SERVER0
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>put cnprac5.txt

Writing file cnprac5.txt to 11.0.0.20:
File transfer in progress...

[Transfer complete - 12 bytes]

12 bytes copied in 0.083 secs (144 bytes/sec)
ftp>
```

PC13

Physical | Config | Desktop | Programming | Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ftp 11.0.0.20
Trying to connect...11.0.0.20
Connected to 11.0.0.20
220- Welcome to PT Ftp server
Username:SERVER0
331- Username ok, need password
Password:

%Error ftp://11.0.0.20/ (No such Account)
332- Need account for login



C:\>ftp 11.0.0.20
Trying to connect...11.0.0.20
Connected to 11.0.0.20
220- Welcome to PT Ftp server
Username:SERVER0
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>get cnprac5.txt

Reading file cnprac5.txt from 11.0.0.20:
File transfer in progress...

[Transfer complete - 12 bytes]

12 bytes copied in 0.016 secs (750 bytes/sec)
ftp>
```