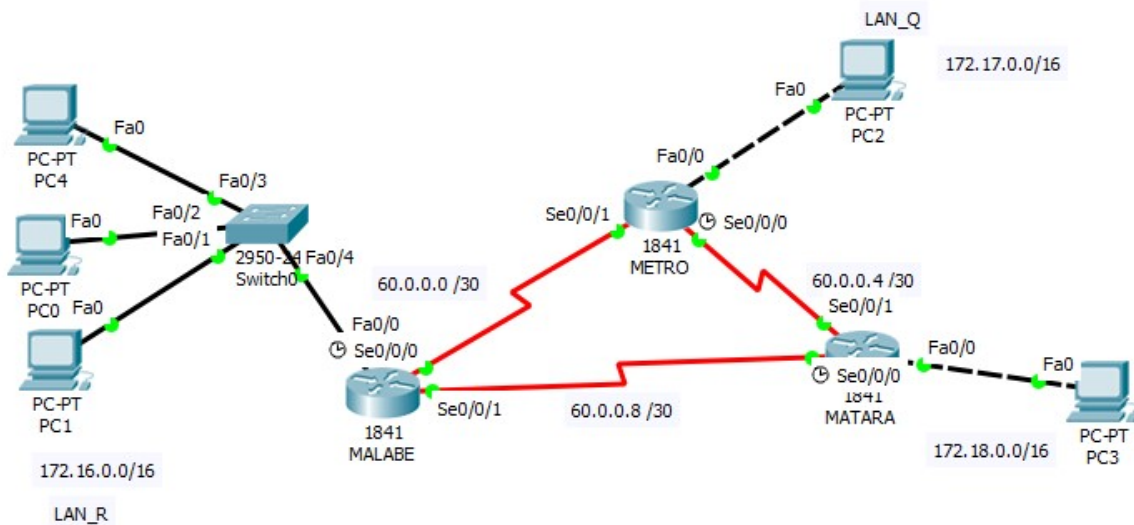


Computer Networks
2nd Year, 1st Semester

Work Sheet 8

Part 1

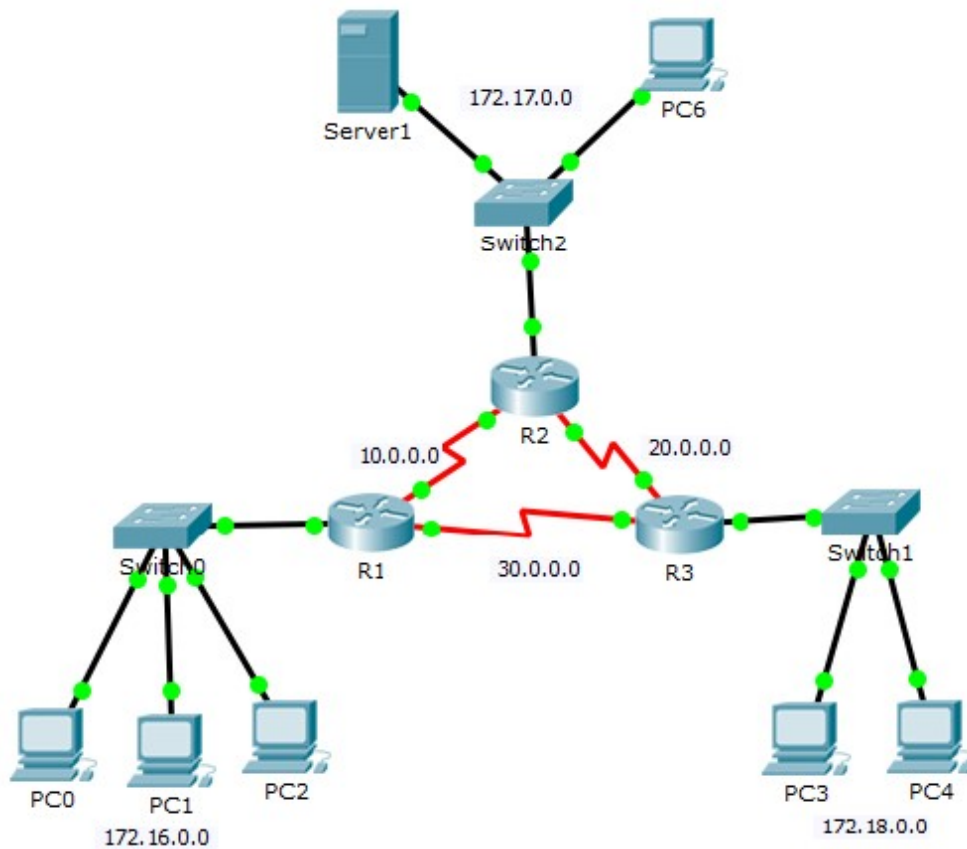
Standard Access Control List Configuration



1. Configure the routers with RIPv2 to enable dynamic routing.
2. Use '*ping*' command to check the connectivity.
3. Apply the Standard Access Control List Configuration for the following.
 - a. PC2 is allowed to access network 172.16.0.0
 - b. PC3 is not allowed to access network 172.16.0.0
 - c. Only PC4 of LAN_R can transmit data to LAN_Q
4. Check the connectivity again.

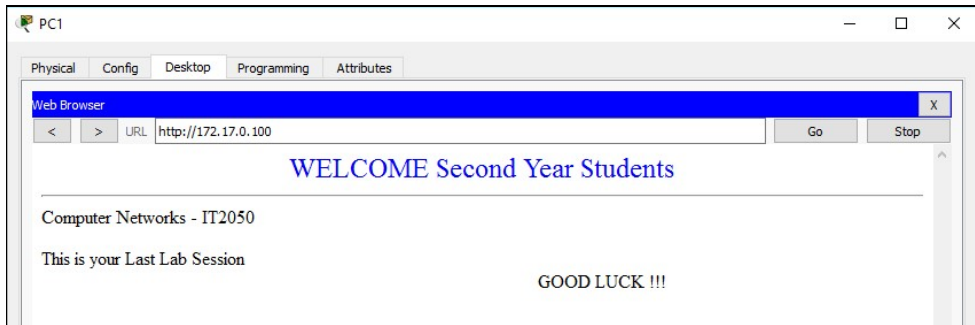
Part 2

Extended Access Control List Configuration

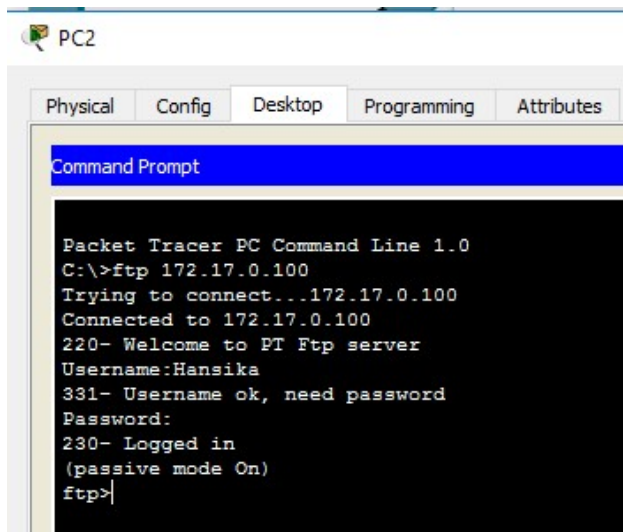
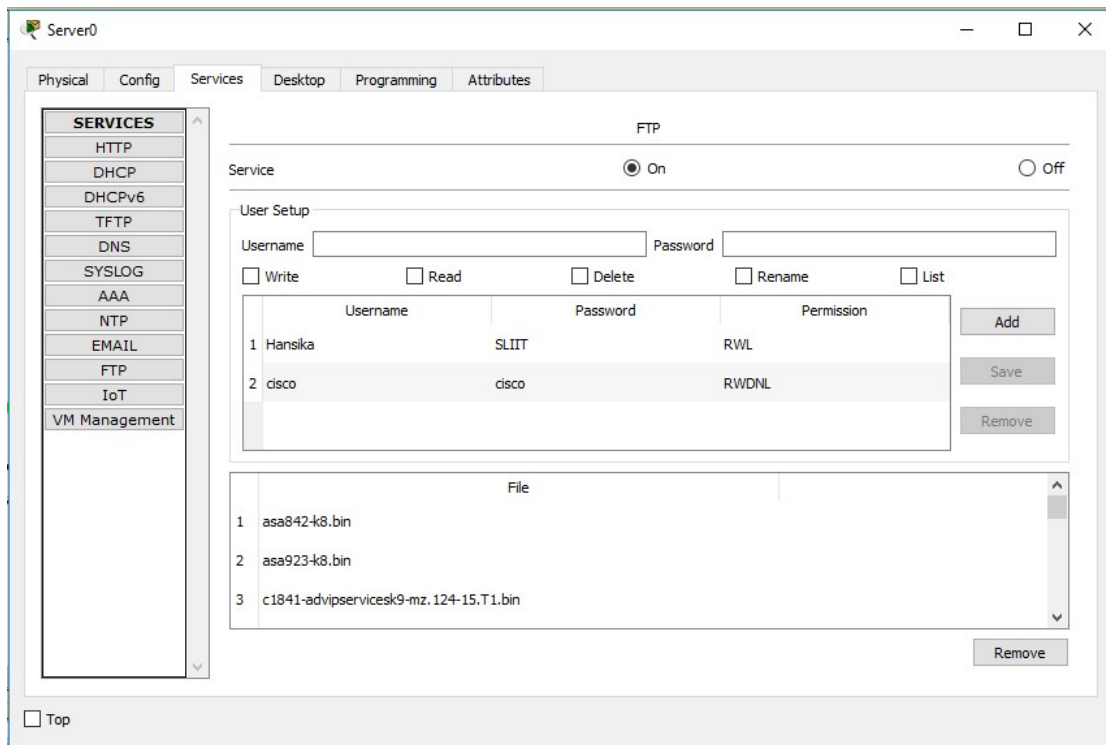


1. Use '*ping*' command to check the connectivity in the initial network.
2. Apply the Extended Access Control List Configuration for the following.
 - a. PC1 is not allowed to access the web service in Server1.
 - b. PC3 is not allowed to access the ftp service in Server1.
 - c. PC2 is not allowed to access the ftp service in Server1.
 - d. Any other traffic will be allowed.
3. Check the connectivity again.

Before Applying Access Control List: PC1 can access the web service of the Server 1



PC2 can access the Ftp service of the Server 1



PC2

Physical Config Desktop Programming Attributes

Command Prompt

```

invalid or non-supported command.
ftp>dir

Listing /ftp directory from 172.17.0.100:
 0 : asa842-k8.bin                      5571584
 1 : asa923-k8.bin                      30468096
 2 : c1841-advipservicesk9-mz.124-15.T1.bin  33591768
 3 : c1841-ipbase-mz.123-14.T7.bin         13832032
 4 : c1841-ipbasek9-mz.124-12.bin         16599160
 5 : c1900-universalk9-mz.SPA.155-3.M4a.bin  33591768
 6 : c2600-advipservicesk9-mz.124-15.T1.bin  33591768
 7 : c2600-i-mz.122-28.bin                5571584
 8 : c2600-ipbasek9-mz.124-8.bin           13169700
 9 : c2800nm-advipservicesk9-mz.124-15.T1.bin  50938004
10 : c2800nm-advipservicesk9-mz.151-4.M4.bin  33591768
11 : c2800nm-ipbase-mz.123-14.T7.bin         5571584
12 : c2800nm-ipbasek9-mz.124-8.bin          15522644
13 : c2900-universalk9-mz.SPA.155-3.M4a.bin  33591768
14 : c2950-i6q412-mz.121-22.EA4.bin        3058048
15 : c2950-i6q412-mz.121-22.EA8.bin        3117390
16 : c2960-lanbase-mz.122-25.FX.bin         4414921
17 : c2960-lanbase-mz.122-25.SEE1.bin       4670455
18 : c2960-lanbasek9-mz.150-2.SE4.bin       4670455
19 : c3560-advipservicesk9-mz.122-37.SE1.bin  8662192
20 : c3560-advipservicesk9-mz.122-46.SE.bin  10713279
21 : c800-universalk9-mz.SPA.152-4.M4.bin    33591768
22 : c800-universalk9-mz.SPA.154-3.M6a.bin   83029236
23 : cat3k_caa-universalk9.16.03.02.SPA.bin  505532849
24 : cgr1000-universalk9-mz.SPA.154-2.CG    159487552
25 : cgr1000-universalk9-mz.SPA.156-3.CG    184530138
26 : ir800-universalk9-bundle.SPA.156-3.M.bin  160968869
27 : ir800-universalk9-mz.SPA.155-3.M       61750062
28 : ir800-universalk9-mz.SPA.156-3.M       63753767
29 : ir800_yocto-1.7.2.tar                 2877440
30 : ir800_yocto-1.7.2_python-2.7.3.tar    6912000
31 : pt1000-i-mz.122-28.bin                 5571584
32 : pt3000-i6q412-mz.121-22.EA4.bin        3117390
ftp>

```

```

ftp>get asa842-k8.bin

Reading file asa842-k8.bin from 172.17.0.100:
File transfer in progress...

[Transfer complete - 5571584 bytes]

5571584 bytes copied in 21.151 secs (60357 bytes/sec)
ftp>

```

After Applying ACLs to the Router 1

```
R1(config)#access-list 110 deny tcp host 172.16.0.10 host 172.17.0.100 eq 80
R1(config)#access-list 110 deny tcp host 172.16.0.20 host 172.17.0.100 eq ftp
R1(config)#access-list 110 permit ip any any
R1(config)#interface FastEthernet0/0
R1(config-if)#ip access-group 110 in
```

