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Report of the results

Students:

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(1) ping result

```
C:\>ping 1.0.0.5

Pinging 1.0.0.5 with 32 bytes of data:

Reply from 1.0.0.5: bytes=32 time<lms TTL=127

Reply from 1.0.0.5: bytes=32 time=lms TTL=127

Reply from 1.0.0.5: bytes=32 time<lms TTL=127

Reply from 1.0.0.5: bytes=32 time<lms TTL=127

Ping statistics for 1.0.0.5:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = lms, Average = 0ms
```

```
C:\>ping 192.168.1.4

Pinging 192.168.1.4 with 32 bytes of data:

Reply from 192.168.1.4: bytes=32 time=64ms TTL=125
Reply from 192.168.1.4: bytes=32 time=2ms TTL=125
Reply from 192.168.1.4: bytes=32 time=2ms TTL=125
Reply from 192.168.1.4: bytes=32 time=75ms TTL=125
Ping statistics for 192.168.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 75ms, Average = 35ms
```

```
C:\>ping 192.168.2.3

Pinging 192.168.2.3 with 32 bytes of data:

Reply from 192.168.2.3: bytes=32 time=6ms TTL=125
Reply from 192.168.2.3: bytes=32 time=3ms TTL=125
Reply from 192.168.2.3: bytes=32 time=5ms TTL=125
Reply from 192.168.2.3: bytes=32 time=3ms TTL=125
Ping statistics for 192.168.2.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 6ms, Average = 4ms
```

```
C:\>ping 192.168.3.3

Pinging 192.168.3.3 with 32 bytes of data:

Reply from 192.168.3.3: bytes=32 time=58ms TTL=126
Reply from 192.168.3.3: bytes=32 time=1ms TTL=126
Reply from 192.168.3.3: bytes=32 time=2ms TTL=126
Reply from 192.168.3.3: bytes=32 time=1ms TTL=126
Ping statistics for 192.168.3.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 58ms, Average = 15ms
```

```
C:\>ping 128.168.0.3
Pinging 128.168.0.3 with 32 bytes of data:

Reply from 128.168.0.3: bytes=32 time=27ms TTL=128
Reply from 128.168.0.3: bytes=32 time<1ms TTL=128
Reply from 128.168.0.3: bytes=32 time<1ms TTL=128
Reply from 128.168.0.3: bytes=32 time=20ms TTL=128
Ping statistics for 128.168.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 27ms, Average = 11ms</pre>
```

```
C:\ping 192.168.4.2

Pinging 192.168.4.2 with 32 bytes of data:

Reply from 192.168.4.2: bytes=32 time=2ms TTL=126

Reply from 192.168.4.2: bytes=32 time=2ms TTL=126

Reply from 192.168.4.2: bytes=32 time=1ms TTL=126

Reply from 192.168.4.2: bytes=32 time=2ms TTL=126

Ping statistics for 192.168.4.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 2ms, Average = 1ms
```

(2) FTP server:

In pc (IT LAB 4) ---- \rightarrow network 192.168.1.0

First we open a connection with the ftp server then we enter the username and password for authentication then we uploaded file 123.txt in the ftp server

```
₹ IT LAB 4
  Physical
           Config
                  Desktop Programming
                                         Attributes
   Command Prompt
   C:\>ftp 1.0.0.5
   Trying to connect...1.0.0.5
   Connected to 1.0.0.5
   220- Welcome to PT Ftp server
   Username:cisco
   331- Username ok, need password
   Password:
   230- Logged in
   (passive mode On)
   ftp>put 123.txt
   Writing file 123.txt to 1.0.0.5:
   File transfer in progress...
   [Transfer complete - 11 bytes]
   11 bytes copied in 0.028 secs (392 bytes/sec)
   Listing /ftp directory from 1.0.0.5:
      : 123.txt
                                                             5571584
       : asa842-k8.bin
      : asa923-k8.bin
      : c1841-advipservicesk9-mz.124-15.Tl.bin
                                                            33591768
       : c1841-ipbase-mz.123-14.T7.bin
       : c1841-ipbasek9-mz.124-12.bin
      : c1900-universalk9-mz.SPA.155-3.M4a.bin
       : c2600-advipservicesk9-mz.124-15.Tl.bin
                                                            33591768
       : c2600-i-mz.122-28.bin
                                                            5571584
       : c2600-ipbasek9-mz.124-8.bin
                                                            13169700
      : c2800nm-advipservicesk9-mz.124-15.T1.bin
                                                            50938004
       : c2800nm-advipservicesk9-mz.151-4.M4.bin
                                                            33591768
       : c2800nm-ipbase-mz.123-14.T7.bin
      : c2800nm-ipbasek9-mz.124-8.bin
       : c2900-universalk9-mz.SPA.155-3.M4a.bin
                                                            33591768
       : c2950-i6q412-mz.121-22.EA4.bin
                                                            3058048
      : c2950-i6q412-mz.121-22.EA8.bin
                                                            3117390
       : c2960-lanbase-mz.122-25.FX.bin
                                                            4414921
       : c2960-lanbase-mz.122-25.SEE1.bin
                                                            4670455
       : c2960-lanbasek9-mz.150-2.SE4.bin
      : c3560-advipservicesk9-mz.122-37.SE1.bin
       : c3560-advipservicesk9-mz.122-46.SE.bin
                                                            10713279
       : c800-universalk9-mz.SPA.152-4.M4.bin
      : c800-universalk9-mz.SPA.154-3.M6a.bin
                                                            83029236
      : cat3k_caa-universalk9.16.03.02.SPA.bin
                                                            505532849
       : cgr1000-universalk9-mz.SPA.154-2.CG
                                                            159487552
       : cgr1000-universalk9-mz.SPA.156-3.CG
       : ir800-universalk9-bundle.SPA.156-3.M.bin
       : ir800-universalk9-mz.SPA.155-3.M
                                                            61750062
       : ir800-universalk9-mz.SPA.156-3.M
       : ir800 yocto-1.7.2.tar
                                                            2877440
       : ir800 yocto-1.7.2 python-2.7.3.tar
                                                             6912000
      : name.txt
 ☐ Top
```

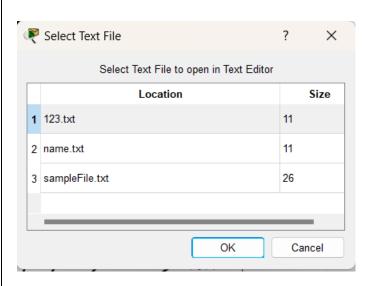
In pc (HOD Cabin) --→ in network 192.168.2.0 We open the session with the ftp server then we get the file uploaded

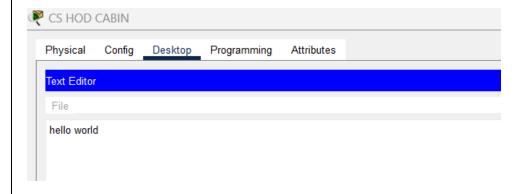
```
ftp>get 123.txt

Reading file 123.txt from 1.0.0.5:
File transfer in progress...

[Transfer complete - 11 bytes]

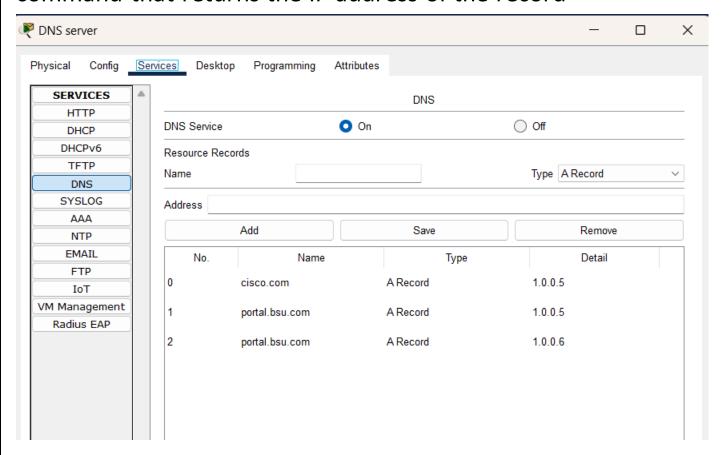
11 bytes copied in 0.026 secs (423 bytes/sec)
ftp>
```





(3) DNS SERVER:

We define a record with an IP address then we run the nslookup command that returns the IP address of the record

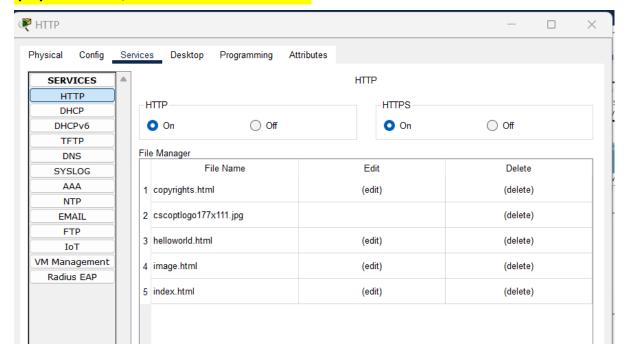


C:\>nslookup cisco.com

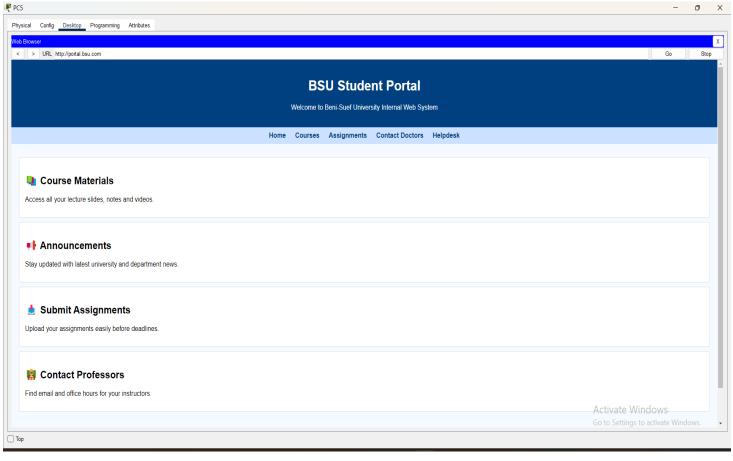
Server: [1.0.0.2]
Address: 1.0.0.2

Non-authoritative answer:
Name: cisco.com
Address: 1.0.0.5

(4) HTTP / HTTPS server:



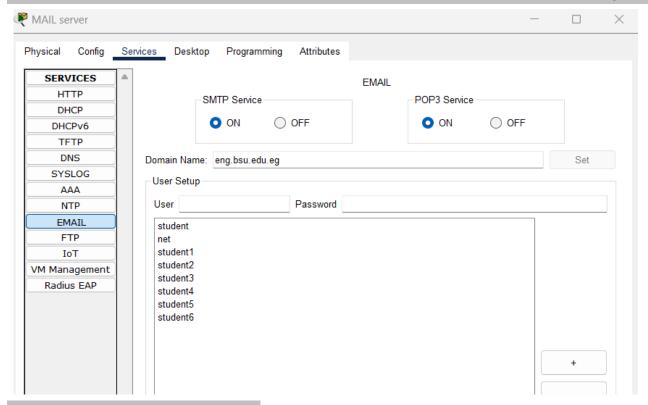




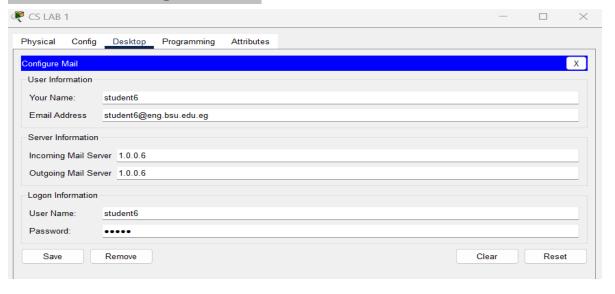
(5) MAIL Serve:

Stores messages received and sent through the network Smtp protocol used for sending messages Pop3 used for receiving messages User agent used to create or read messages

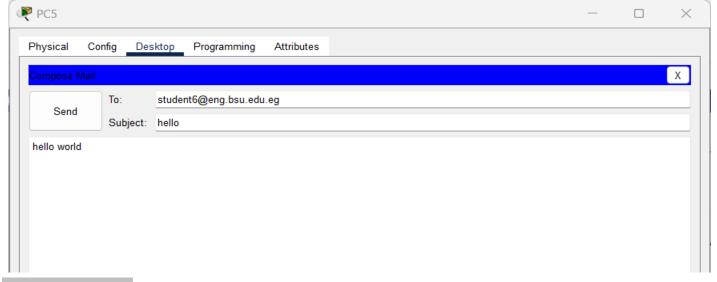
we created an email server same as our university email



Email configuration



#composing a message:



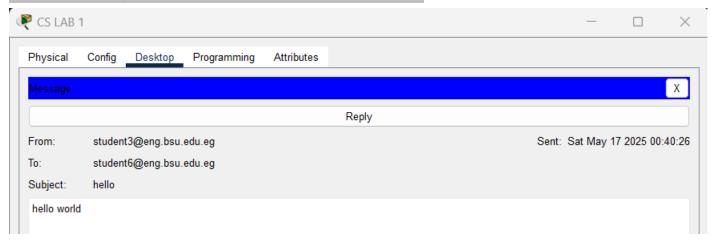
#sending it

Sending mail to student6@eng.bsu.edu.eg , with subject : hello ..

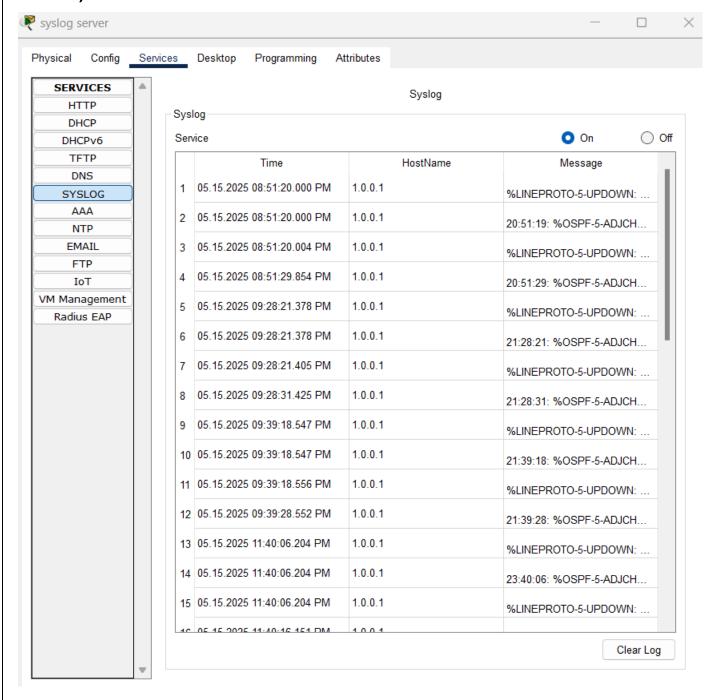
Mail Server: 1.0.0.7
Send Success.

Cancel
Send/Receive

#receiving it on the another device

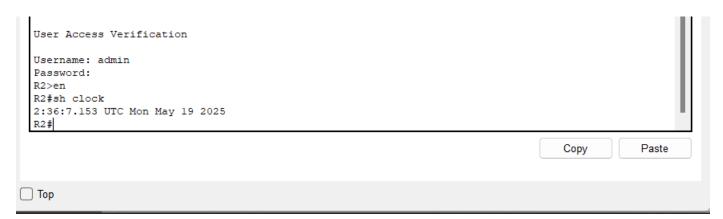


(6)syslog server: collects logs from the all network with date, time and IP



(7)NTP server:

To collect logs correctly you need to set the time So we use the ntp server to set the time true



(8) Radius & Tacacs+ servers:

Used for AAA authentication

