CSE3501-Information Security Analysis and Audit Lab

NAME- HRITIK DUBEY REG NO-19BIT0150 SLOT- L41+L42

DIGITAL ASSIGNMENT 1

Faculty: Dr. Priya V

Drive link -

https://drive.google.com/drive/folders/14YZQp8UiSnI3ydqcQSvFREH3Ick_8Jxd?usp=sharing

Question 1.

Changing the name of PC & Router using CLI

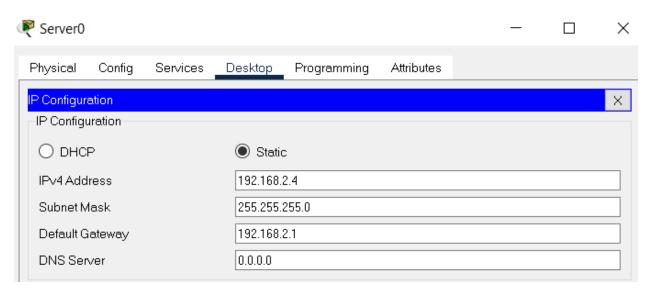
```
Router0
                                                     Physical Config CLI Attributes
                      IOS Command Line Interface
 Router>en
 Router#config t
 Enter configuration commands, one per line. End
 with CNTL/Z.
 Router(config) #hostname Hritikl
 Hritikl (config) #do sh run
 Building configuration...
 Current configuration: 740 bytes
 version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
 hostname Hritikl
```

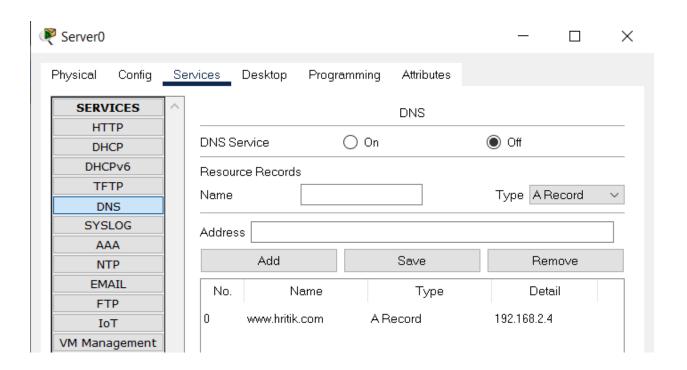
```
Router>
Router>en
Router#config t
Enter configuration commands, one per line. End
with CNTL/Z.
Router(config) #hostname Hritik2
Hritik2(config) #
Hritik2(config) #
```

Configured DNS server with server

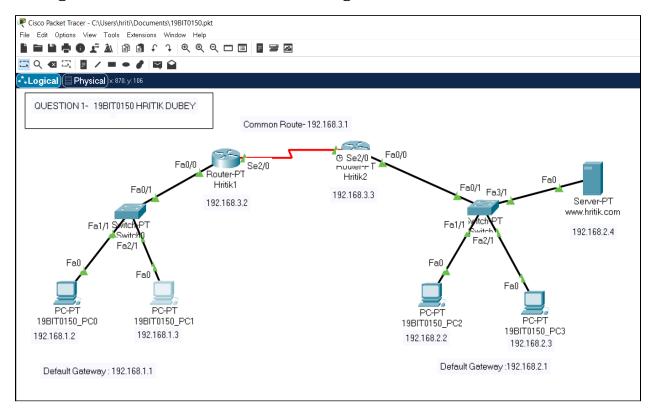
Name: www.hritik.com

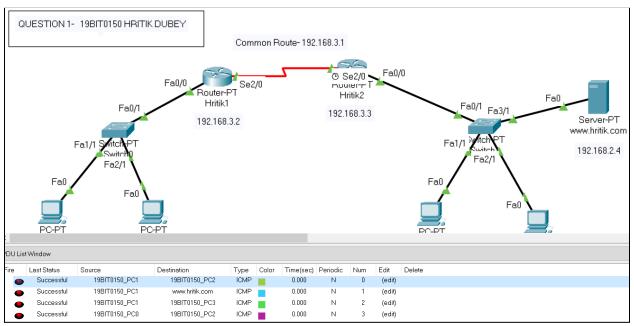
IP: 192.168.2.4 Default gateway: 192.168.2.1





Configured Devices, Interface & Routing Service





Configured Extended ACL

Before applying ACL, ping from 19BIT0150_PC0 to server

```
₱ 19BIT0150_PC0
                                                          П
                                                                ×
        Config Desktop Programming
 Physical
                                Attributes
 Command Prompt
 Packet Tracer PC Command Line 1.0
 C:\>ping 192.168.2.4
 Pinging 192.168.2.4 with 32 bytes of data:
 Reply from 192.168.2.4: bytes=32 time=16ms TTL=126
 Reply from 192.168.2.4: bytes=32 time=6ms TTL=126
 Reply from 192.168.2.4: bytes=32 time=1ms TTL=126 Reply from 192.168.2.4: bytes=32 time=61ms TTL=126
 Ping statistics for 192.168.2.4:
       Packets: Sent = 4, Received = 4, Lost = 0 (0%
  loss),
  Approximate round trip times in milli-seconds:
      Minimum = 1ms, Maximum = 61ms, Average = 21ms
```

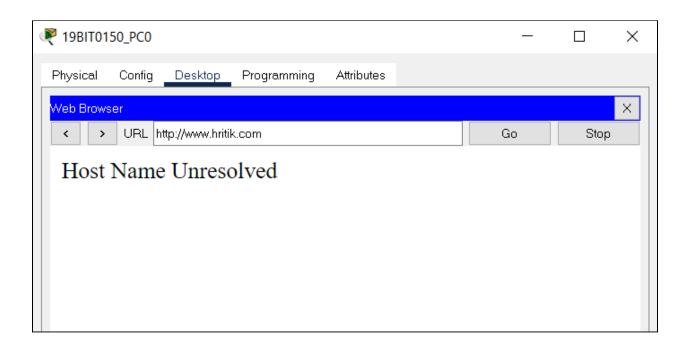
Extended ACL is placed near the source so we will configure Hritik1 router

```
P Hritik1
                                                                       X
      Config <u>CLI</u> Attributes
                               IOS Command Line Interface
 Hritik1>en
 Hritikl#config t
 Enter configuration commands, one per line. End with CNTL/Z.
 Hritikl(config)#access-list 101 ?
           Specify packets to reject
   permit Specify packets to forward
   remark Access list entry comment
 Hritik1(config) #access-list 101 deny udp host 192.168.1.2 host
 192.168.2.4 eq ?
   <0-65535>
                  Port number
   bootpc
                  Bootstrap Protocol (BOOTP) client (68)
                  Bootstrap Protocol (BOOTP) server (67)
   bootps
   domain
                  Domain Name Service (DNS, 53)
                  Internet Security Association and Key Management
   isakmp
 Protocol (500)
   non500-isakmp Internet Security Association and Key Management
 Protocol
                   (4500)
   snmp
                  Simple Network Management Protocol (161)
   tftp
                  Trivial File Transfer Protocol (69)
 Hritik1(config)#access-list 101 deny udp host 192.168.1.2 host
 192.168.2.4 eq domain
 Hritik1(config) #access-list 101 permit ip any any
 Hritikl(config)#
```

Extended ACL start with access list 101 To interface f0/0

```
Rritik1
                                                                            X
      Config <u>CLI</u> Attributes
 Physical
                                  IOS Command Line Interface
 192.168.2.4 eq domain
 Hritik1(config)#access-list 101 permit ip any any
 Hritikl(config)#
 Hritik1 (config) #
 Hritik1(config)#int f0/0
 Hritik1(config-if) #ip access-group 101 in
 Hritikl(config-if)#
 Hritik1(config-if)#^Z
 Hritik1#
 %SYS-5-CONFIG_I: Configured from console by console
 Hritik1#
 Hritik1#
```

Connecting the server...

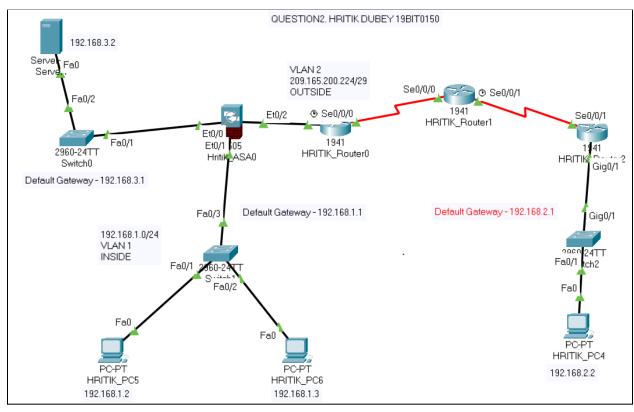


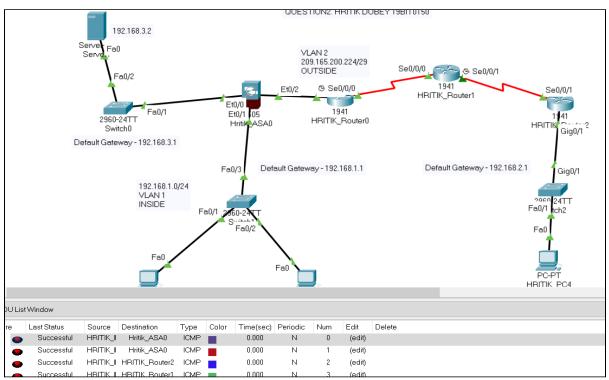
Question 2.

Configure the routers and rename with your First name using CLI

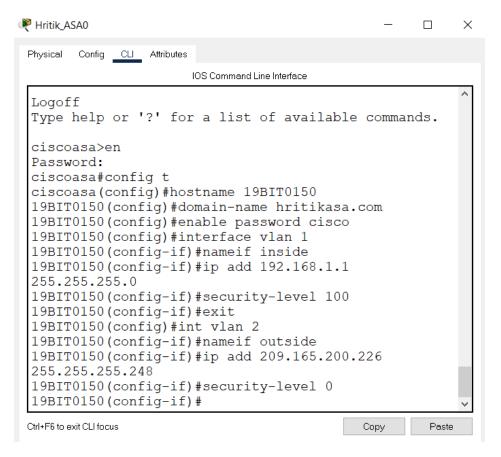
```
Router#
Router#
Router#
Router#config t
Enter configuration commands, one per line. End
with CNTL/Z.
Router(config) #hostname Hritik R0
Hritik R0 (config) #exit
Hritik RO#
%SYS-5-CONFIG I: Configured from console by console
Hritik RO#
Router>en
Router#config t
Enter configuration commands, one per line.
with CNTL/Z.
Router(config) #hostname Hritik R1
Hritik R1(config)#exit
Hritik R1#
%SYS-5-CONFIG I: Configured from console by console
Hritik R1#
Router>en
Router#config t
Enter configuration commands, one per line. End
with CNTL/Z.
Router(config) #hostname Hritik R2
Hritik R2(config)#exit
Hritik R2#
%SYS-5-CONFIG I: Configured from console by console
Hritik R2#
```

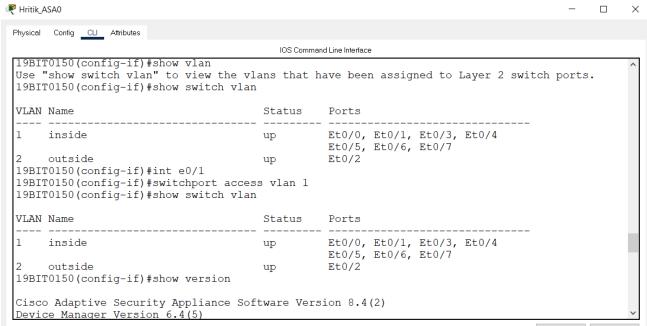
Configure the devices, interfaces & servers





Configure basic ASA settings





19BIT0150 (config-if) #: Interface Status	show int ip brief IP-Address Protocol	OK?	Method
Ethernet0/0 up	unassigned up	YES	unset
Ethernet0/1 up	unassigned up	YES	unset
Ethernet0/2 up	unassigned up	YES	unset
Ethernet0/3 down	unassigned down	YES	unset
Ethernet0/4 down	unassigned down	YES	unset
Ethernet0/5 down	unassigned down	YES	unset
Ethernet0/6 down	unassigned down	YES	unset
Ethernet0/7 down	unassigned down	YES	unset
Vlan1 up	192.168.1.1 up	YES	manual
Vlan2 up 19BIT0150(config-if)#	209.165.200.226 up	YES	manual

Ping snapshots from HRITIK PC to Firewall

