

LAB TASK 8

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9894

Screenshots:-

The top screenshot shows a Cisco Packet Tracer network diagram. A central switch, labeled 'Fa0/1 switch', is connected to 15 PCs. The PCs are labeled PC-PT PC0 through PC-PT PC15. The switch has 16 ports, with 15 of them connected to the PCs. The network is in a 'Logical' view, and the time is 00:18:41. The bottom screenshot shows the same network diagram, but with a configuration window open for 'UsamaSwitch0'. The window displays the following configuration commands:

```
Switch>enable
Switch>conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname Usama
Usama(config)#interface range fa 0/1-8
Usama(config-if-range)#switchport mode access
Usama(config-if-range)#switchport port-security
Usama(config-if-range)#switchport port-security maximum 1
Usama(config-if-range)#switchport port-security mac-address sticky
Usama(config-if-range)#switchport port-security violation
#shutdown
Usama(config-if-range)#exit
Usama(config)#
Usama(config)#interface range fa 0/9-15
Usama(config-if-range)#shutdown

%LINK-5-CHANGED: Interface FastEthernet0/9, changed state to administratively down
%LINK-5-CHANGED: Interface FastEthernet0/10, changed state to administratively down
%LINK-5-CHANGED: Interface FastEthernet0/11, changed state to administratively down
%LINK-5-CHANGED: Interface FastEthernet0/12, changed state to administratively down
%LINK-5-CHANGED: Interface FastEthernet0/13, changed state to administratively down
%LINK-5-CHANGED: Interface FastEthernet0/14, changed state to administratively down
%LINK-5-CHANGED: Interface FastEthernet0/15, changed state to administratively down

Ctrl+F6 to exit CLI focus
```

The bottom screenshot also shows the 'UsamaSwitch0' configuration window, but with the 'CLI' tab selected, showing the configuration commands. The network is in a 'Logical' view, and the time is 00:18:14. The bottom screenshot also shows the 'UsamaSwitch0' configuration window, but with the 'CLI' tab selected, showing the configuration commands.

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 1194 y 518

Full-screen Stop

Time: 00:22:42

Scenario 0

New Delete

Toggle PDU List Window

Type here to search

ENG 9:01 PM 3/4/2021

UsamaSwitch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Usama#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Usama(config)#enable password 9894
Usama(config)#exit
Usama#
$SYS-S-CONFIG_I: Configured from console by console

Usama#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Usama(config)#line vty 0 15
Usama(config-line)#password 9894
Usama(config-line)#login
Usama(config-line)#exit
Usama(config)#line console 0
Usama(config-line)#password 9894
Usama(config-line)#login
Usama(config-line)#exit
Usama(config)#service password-encryption
Usama(config)#banner motd &Access Given&
Usama(config)#exit
Usama#
$SYS-S-CONFIG_I: Configured from console by console

Usama#exit
```

Ctrl+F6 to exit CLI focus

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Top

Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 572 y 509

Full-screen Stop

Time: 00:23:02

Scenario 0

New Delete

Toggle PDU List Window

Type here to search

ENG 9:01 PM 3/4/2021

UsamaSwitch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Access Given
User Access Verification
Password:
Usama>enable
Password:
Usama#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Usama(config)#
```

Ctrl+F6 to exit CLI focus

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Top

Realtime Simulation

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 866 y: 539

Full-screen Snap

Time: 00:25:26

Scenario 0

New Delete

Toggle PDU List Window

Type here to search

Realtime Simulation

ENG 9:04 PM 3/4/2021

UsamaSwitch0

Physical Config CLI Attributes

IOS Command Line Interface

```

Usama>enable
Password:
Usama#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Usama#
%SYS-5-CONFIG_I: Configured from console by console

Usama#show port-security
Secure Port MaxSecureAddr CurrentAddr SecurityViolation
Security Action
          (Count)          (Count)          (Count)
-----
Fa0/1      1              1              0
Shutdown
Fa0/2      1              1              0
Shutdown
Fa0/3      1              1              0
Shutdown
Fa0/4      1              1              0
Shutdown
Fa0/5      1              1              0
Shutdown
Fa0/6      1              1              0
Shutdown
Fa0/7      1              0              0
Shutdown
Fa0/8      1              0              0
Shutdown
-----
Usama#
  
```

Ctrl+F6 to exit CLI focus

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Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 1031 y: 519

Full-screen Snap

Time: 00:28:08

Scenario 0

New Delete

Toggle PDU List Window

Type here to search

Realtime Simulation

ENG 9:06 PM 3/4/2021

UsamaSwitch0

Physical Config CLI Attributes

IOS Command Line Interface

```

Usama#show port-security interface fa 0/4
Port Security : Enabled
Port Status : Secure-up
Violation Mode : Shutdown
Aging Time : 0 mins
Aging Type : Absolute
SecureStatic Address Aging : Disabled
Maximum MAC Addresses : 1
Total MAC Addresses : 1
Configured MAC Addresses : 0
Sticky MAC Addresses : 1
Last Source Address:Vlan : 0090.2b4d.B943:1
Security Violation Count : 0

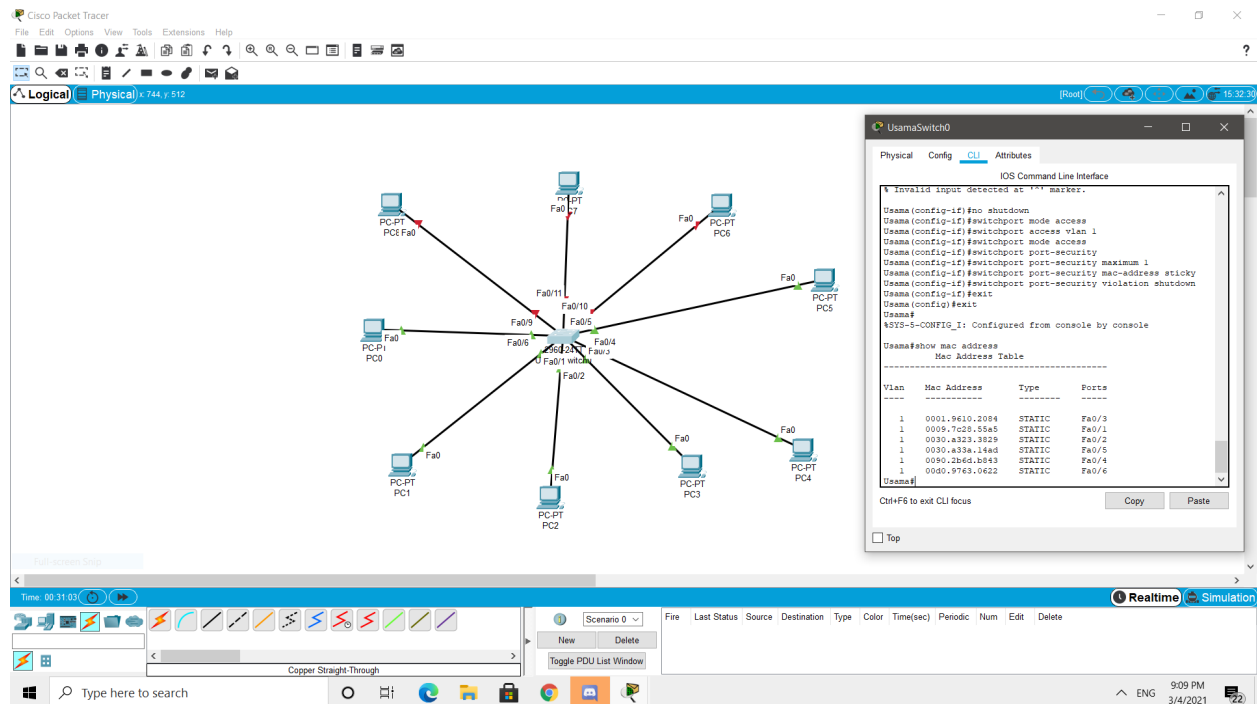
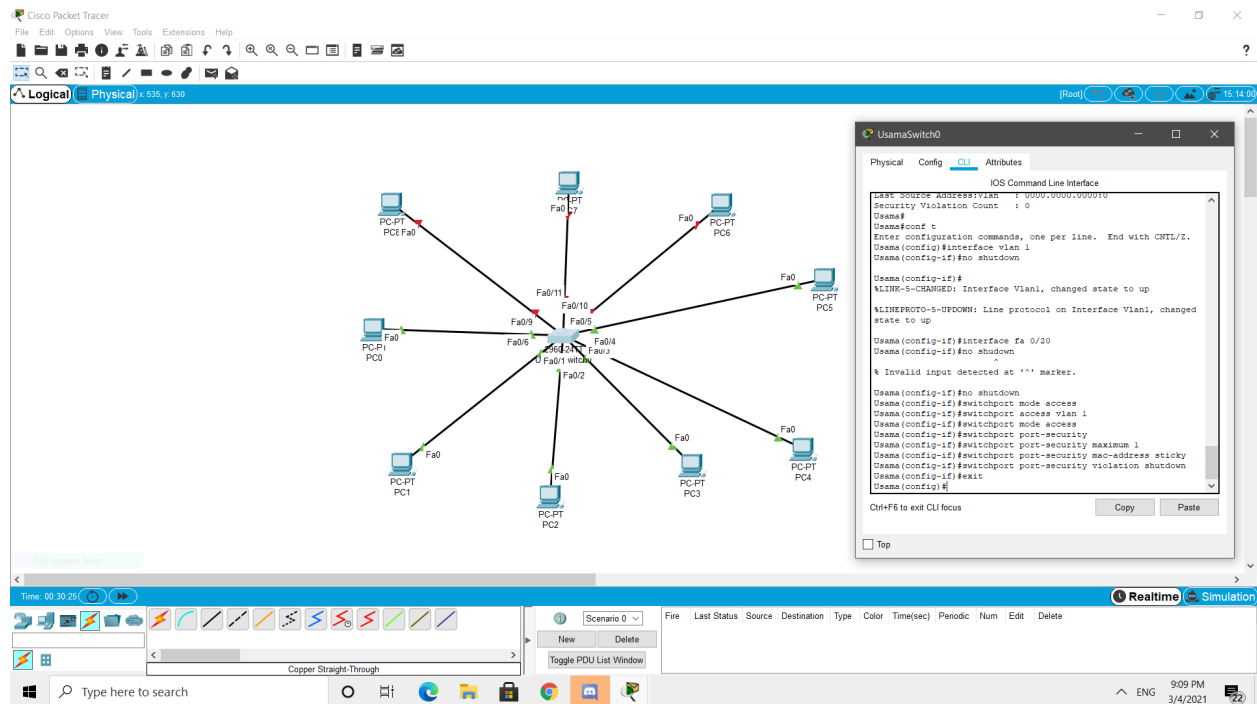
Usama#show port-security interface fa 0/9
Port Security : Disabled
Port Status : Secure-down
Violation Mode : Shutdown
Aging Time : 0 mins
Aging Type : Absolute
SecureStatic Address Aging : Disabled
Maximum MAC Addresses : 1
Total MAC Addresses : 0
Configured MAC Addresses : 0
Sticky MAC Addresses : 0
Last Source Address:Vlan : 0000.0000.0000:0
Security Violation Count : 0

Usama#
  
```

Ctrl+F6 to exit CLI focus

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Top



SHOW PORT-SECURITY:- This command is used to show port security details which show all PC's connected with the switch, it tells about the interfaces connected and their status i.e Shutdown or active, It also shows the count of Devices that the port security has given access to.

SHOW PORT-SECURITY ON AN INTERFACE:- This command shows the port-security on a specific interface showing all its details whether its enabled or disabled or if it has any violation. It also shows the count of violations and the status of its Mac Address.

