

EXPERIMENT-4

Aim:

To configure Basic Switch and End Device Configuration.

Software Used:

Cisco Packet Tracer

Requirements

- = Use a console connection to access each switch.
- = Name **Class-A** and **Class-B** switches.
- = Use the **xAw6k** password for all lines.
- = Use the **6EBUp** secret password.
- = Encrypt all clear text passwords.
- = Configure an appropriate message-of-the-day (MOTD) banner.
- = Configure addressing for all devices according to the Addressing Table.
- = Save your configurations.
- = Verify connectivity between all devices.

Addressing Table

Addressing Table

Device	Interface	IP Address	Subnet Mask
Class-A	VLAN 1	172.16.5.35	255.255.255.0
Class-B	VLAN 1	172.16.5.40	255.255.255.0
Student-1	NIC	172.16.5.50	255.255.255.0
Student-2	NIC	172.16.5.60	255.255.255.0

For Class-A

```
Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWARE (fc1)
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```

```
Press RETURN to get started!
```

```
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
```

```
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
This is Class-A
```

```
User Access Verification
```

```
Password:
```

```
Class-A>enable
```

```
Password:
```

```
Class-A#
```

```
Class-A#
```

For Class-B

```
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```

Press RETURN to get started!

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

This is Class-B.:

User Access Verification

Password:

Class-B>enable

Password:

Class-B#

Ip-Configurations

1) Student-1

The screenshot shows a window titled "Student-1" with tabs for Physical, Config, Desktop, and Programming. The "Config" tab is active, displaying the "IP Configuration" window for the "FastEthernet0" interface. The configuration is set to Static IP. The IPv4 Address is 172.16.5.50, Subnet Mask is 255.255.255.0, Default Gateway is 0.0.0.0, and DNS Server is 0.0.0.0. The IPv6 Configuration section shows Automatic and Static options, with Static selected. The 802.1X section shows the "Use 802.1X Security" checkbox unchecked, Authentication set to MD5, and empty fields for Username and Password.

IP Configuration	
Interface	FastEthernet0
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IPv4 Address	172.16.5.50
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0
IPv6 Configuration	
<input type="radio"/> Automatic	<input checked="" type="radio"/> Static
IPv6 Address	
Link Local Address	
Default Gateway	
DNS Server	
802.1X	
<input type="checkbox"/> Use 802.1X Security	
Authentication	MD5
Username	
Password	

2) Student-2

Student-2

Physical Config **Desktop** Programming

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 172.16.5.60

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address:

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

Conclusion:

The switch was configured successfully.

