

Basic Switch Configuration

1. After Boot:

Continue with configuration dialog? [yes/no]: no

2. Initial or Executive Mode:

Switch>

3. Switch to Hash or Privileged Executive Mode:

Switch> enable

Switch#

4. See the Running Configuration and Start-up Configurations:

Switch# show running-config

Switch# show startup-config

5. Switch to Fully Administrative or Global Configuration Mode:

Switch# configure terminal

Switch(config)#

6. Change the Hostname:

Switch(config)# Hostname **ICE**

ICE(config)#

7. Give Enable Password:

ICE(config)# enable password **cisco**
ICE(config)# enable secret **cisco** or

8. Give Console Line Password:

ICE(config)# line console 0

ICE(config-line)# password **class**

ICE(config-line)# login

9. Give VTY Line Password:

ICE(config)# line VTY 0 4

ICE(config-line)# password **class**

ICE(config-line)# login

ICE(config-line)# transport input telnet

Or

ICE(config-line)# transport input ssh

Or

ICE(config-line)# transport input all

10. Configure the Interfaces (FastEthernet or GigabitEthernet or VLAN):

```
ICE(config)# interface vlan 1
ICE(config-if)# ip address 192.168.10.1 255.255.255.0
ICE(config-if)# no shutdown
ICE(config-if)# description LAN-ICE
```

11. Make All the Password Encrypted:

```
ICE(config)# service password-encryption
```

12. Provide the Banner Message:

```
ICE(config)# banner motd #Authoized Access Only!!#
```

13. Making back-up of the running configurations:

```
ICE# copy running-config startup-config
```

Basic Router (or Switch) Configuration

1. After Boot:

```
Continue with configuration dialog? [yes/no]: no
```

2. Initial or Executive Mode:

```
Router>
```

3. Switch to Hash or Privileged Executive Mode:

```
Router> enable
Router#
```

4. See the Running Configuration and Start-up Configurations:

```
Router# show running-config
Router# show startup-config
```

5. Switch to Fully Administrative or Global Configuration Mode:

```
Router# configure terminal
Router(config)#
```

6. Change the Hostname:

```
Router(config)# Hostname ICE  
ICE(config)#
```

7. Give Enable Password:

```
ICE(config)# enable password cisco  
or  
ICE(config)# enable secret cisco
```

8. Give Console Line Password:

```
ICE(config)# line console 0  
ICE(config-line)# password class  
ICE(config-line)# login  
or, in case of use local database (creating username & password as in Configuration # 13)  
ICE(config)# line console 0  
ICE(config-line)# login local
```

9. Configure the Interfaces (FastEthernet or GigabitEthernet or Serial or VLAN):

```
ICE(config)# interface fastEthernet 0/0  
ICE(config-if)# ip address 192.168.10.1 255.255.255.0  
ICE(config-if)# no shutdown  
ICE(config-if)# description LAN-ICE  
ICE(config)# interface gigabitEthernet 0/0  
ICE(config-if)# ip address 192.168.11.1 255.255.255.0  
ICE(config-if)# no shutdown  
ICE(config-if)# description LAN-ICE  
ICE(config)# interface serial 0/0/0  
ICE(config-if)# ip address 192.168.12.1 255.255.255.0  
ICE(config-if)# no shutdown  
ICE(config-if)# description WAN-ICE to KUET  
ICE(config)# interface VLAN 1  
ICE(config-if)# ip address 192.168.13.5 255.255.255.0  
ICE(config-if)# no shutdown  
ICE(config-if)# description VLAN-Student
```

10. Make All the Password Encrypted:

```
ICE(config)# service password-encryption
```

11. Provide the Banner Message:

```
ICE(config)# banner motd #Authoized Access Only!!#
```

12. Create Username and Password:

```
ICE(config)# username admin password ICE
```

13. Making back-up of the running configurations:

ICE# copy running-config startup-config

Prepared By: Md. Nurnoby Mallik.
Department of CSE, ICE, Khulna.

Thanks To: Prof. Dr. Md. Obaidur Rahman
Department of CSE, DUET, Gazipur.