

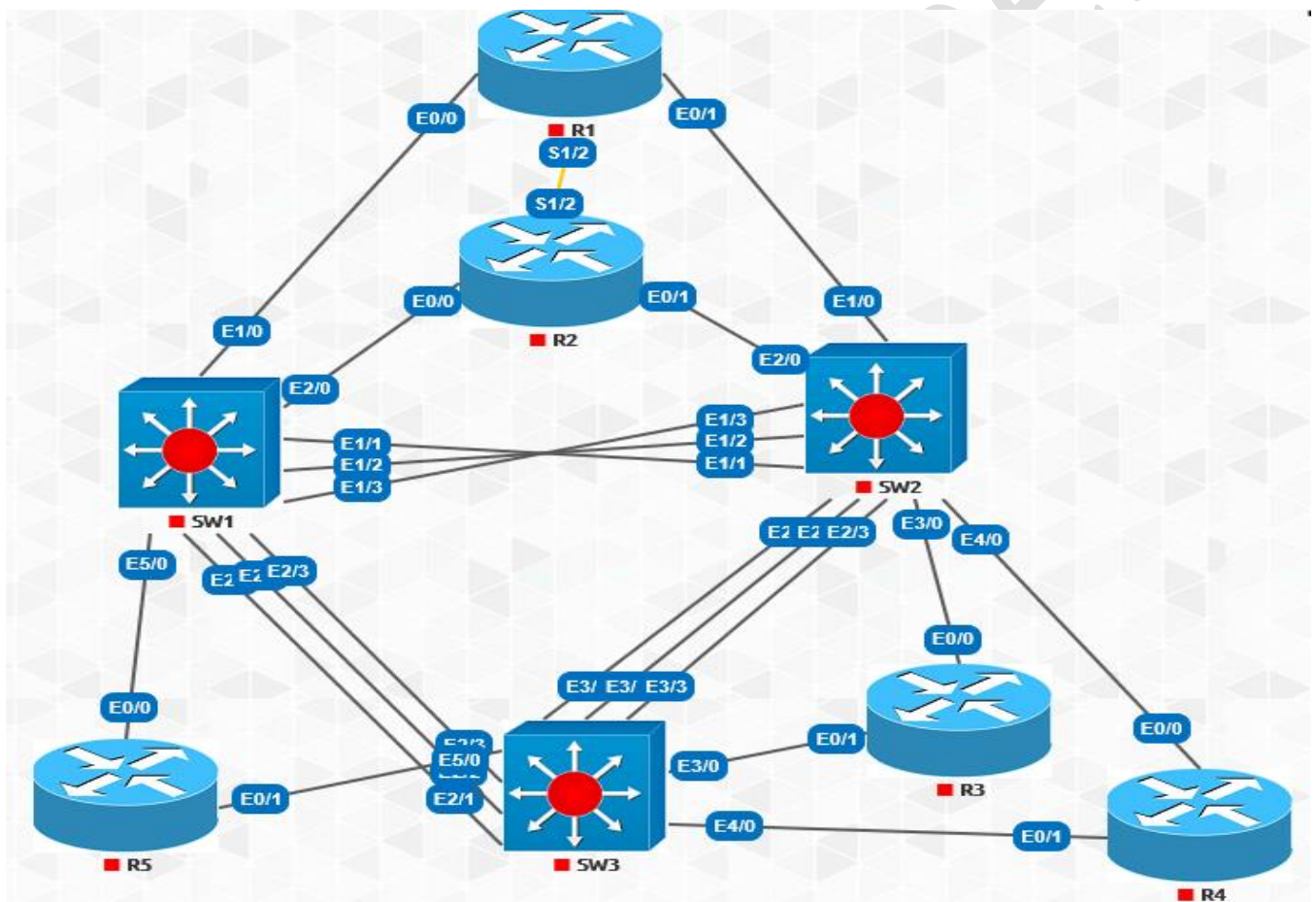
Preliminary Switch Configuration

Platform: <https://racks.uninets.com>

Lab Name: CCNP Enterprise

Topology

Preliminary Switch Configuration



Task

- Access each Switch and Put Hostname as per topology.
- Shut down all interfaces, and then enable only those interfaces that connect to devices shown in the topology diagram. No-shut All the Ports of each switch by logging it.
- Configure an enable password of Uninets (all letters lowercase).
- Check what are the ports available on this Switch by `sh ip int brief` and `sh int <eth slot/port`

- commands and export the output of these commands

Configuration

Step 1: Access each Switch and Put Hostname as per topology.

```
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname Sw1
Sw1(config)#
```

Step 2: Shut down all interfaces, and then enable only those interfaces that connect to devices shown in the topology diagram between Switches.

```
Sw1(config)#int range et1/0-3
Sw1(config-if-range)#no shut
Sw1(config-if-range)#
Sw1(config-if-range)#
```

Step 3: Configure an enable password of Uninets (all letters lowercase) in all switches.

```
sw1(config)#enable password uninets
sw1(config)#
sw1(config)#
```

Step 4: Check what the ports available on this Switch are by sh ip int brief and sh int status commands and expose the output of these commands.

```

Sw1#sh ip int brief
Interface                IP-Address      OK? Method Status      Protocol
Ethernet0/0              unassigned     YES unset  up          up
Ethernet0/1              unassigned     YES unset  up          up
Ethernet0/2              unassigned     YES unset  up          up
Ethernet0/3              unassigned     YES unset  up          up
Ethernet1/0              unassigned     YES unset  up          up
Ethernet1/1              unassigned     YES unset  up          up
Ethernet1/2              unassigned     YES unset  up          up
Ethernet1/3              unassigned     YES unset  up          up
Ethernet2/0              unassigned     YES unset  up          up
Ethernet2/1              unassigned     YES unset  up          up
Ethernet2/2              unassigned     YES unset  up          up
Ethernet2/3              unassigned     YES unset  up          up
Ethernet3/0              unassigned     YES unset  up          up
Ethernet3/1              unassigned     YES unset  up          up
Ethernet3/2              unassigned     YES unset  up          up
Ethernet3/3              unassigned     YES unset  up          up
Ethernet4/0              unassigned     YES unset  up          up
Ethernet4/1              unassigned     YES unset  up          up
Ethernet4/2              unassigned     YES unset  up          up
Ethernet4/3              unassigned     YES unset  up          up
Ethernet5/0              unassigned     YES unset  up          up
Ethernet5/1              unassigned     YES unset  up          up
--More--

```

This Command show the interface type (Ethernet) , These ports are cable of working as L3 ports and on this ports IP address can be assigned . If you want to convert ports in to L3 mode then follow these steps:

```

Sw1(config)#int eth0/0
Sw1(config-if)#no sw
Sw1(config-if)#no switchport
Sw1(config-if)#ip add
Sw1(config-if)#ip address
*Apr  9 05:00:04.462: %LINK-3-UPDOWN: Interface Ethernet0/0, changed state to up
*Apr  9 05:00:05.462: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/0, changed state to up
Sw1(config-if)#ip address 1.1.1.1 255.255.255.0
Sw1(config-if)#no shut
Sw1(config-if)#AZ

```

```

Sw1#sh ip int brief
Interface                IP-Address      OK? Method Status      Protocol
Ethernet0/0              1.1.1.1         YES manual up          up
Ethernet0/1              unassigned     YES unset  up          up
Ethernet0/2              unassigned     YES unset  up          up
Ethernet0/3              unassigned     YES unset  up          up
Ethernet1/0              unassigned     YES unset  up          up
Ethernet1/1              unassigned     YES unset  up          up
Ethernet1/2              unassigned     YES unset  up          up
Ethernet1/3              unassigned     YES unset  up          up
Sw1#

```

The Ports status are UP and Protocol is UP. To explore more about Switch ports use following commands:

Sh int e1/0

This command will show you the following:

Physical Status of the Port: UP
Line Protocol status of the Port: UP
MTU: 1500 bytes
Total BW of the port: 10MB
Encapsulation: ARPA Duplex
and Speed: AUTO Error and
CRC: 0

```
sw1#sh int e1/0
Ethernet1/0 is up, line protocol is up (connected)
  Hardware is AmdP2, address is aabb.cc00.0501 (bia aabb.cc00.0501)
  MTU 1500 bytes, BW 10000 Kbit/sec, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is unknown
  input flow-control is off, output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 00:00:01, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/0 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    0 packets input, 0 bytes, 0 no buffer
    Received 0 broadcasts (0 multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 input packets with dribble condition detected
  352 packets output, 27079 bytes, 0 underruns
  0 output errors, 0 collisions, 0 interface resets
```