

## SIM Lab: Switching

### Question 1:

What ports are currently trunking on switch-1?

```
switch-1# show interfaces trunk
```

Port	Mode	Encapsulation	Status	Native vlan
<b>Fa0/1</b>	on	802.1q	trunking	1
<b>Fa0/2</b>	on	802.1q	trunking	1

```
Port      Vlans allowed on trunk
```

```
Fa0/1     1-1005
```

```
Fa0/2     1-1005
```

```
Port      Vlans allowed and active in management domain
```

```
Fa0/1     1,10,11,12
```

```
Fa0/2     1,10,11,12
```

```
Port      Vlans in spanning tree forwarding state and not pruned
```

```
Fa0/1     1,10,11,12
```

```
Fa0/2     1,10,11,12
```

**Answer:** Fa0/1 and Fa0/2

### Question 2:

What is the IOS version on switch-3?

```
switch-3# show version
```

```
<output omitted>
```

```
Cisco IOS Software, C2960 Software (C2960-LANBASE-M), Version 12.2(25)FX
```

**Answer:** Version 12.2(25)FX

Question 3:

List the neighbors actively connected to switch-3?

```
switch-3# show cdp neighbors
```

Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge  
S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone

Device ID	Local Intrfce	Holdtme	Capability	Platform	Port ID
<b>switch-1</b>	Fas 0/1	155	S	2960	Fas 0/2
<b>switch-2</b>	Fas 0/2	155	S	2960	Fas 0/1

**Answer:** switch-1 and switch-2

Question 4:

What VLAN is assigned to switch-2 interface Fa0/4?

```
switch-2# show vlan brief
```

VLAN Name	Status	Ports
1 default	active	Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/16 Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24 Gig0/1, Gig0/2
10 VLAN0010	active	Fa0/3
<b>11 VLAN0011</b>	<b>active</b>	<b>Fa0/4</b>
12 VLAN0012	active	

**Answer:** VLAN 11

Question 5:

What is the administrative and operational mode of switch-3 interface Fa0/3?

```
switch-3# show interface fastethernet0/3 switchport
```

Name: Fa0/3

Switchport: Enabled

**Administrative Mode: static access**

**Operational Mode: static access**

Administrative Trunking Encapsulation:

Operational Trunking Encapsulation: native

Negotiation of Trunking: Off

Access Mode VLAN: 10 (VLAN0010)

Trunking Native Mode VLAN: 1 (default)

Voice VLAN: none

Administrative private-vlan host-association: none

Administrative private-vlan mapping: none

Administrative private-vlan trunk native VLAN: none

Administrative private-vlan trunk encapsulation: dot1q

Administrative private-vlan trunk normal VLANs: none

Administrative private-vlan trunk private VLANs: none

Operational private-vlan: none

Trunking VLANs Enabled: ALL

Pruning VLANs Enabled: 2-1001

Capture Mode Disabled

Capture VLANs Allowed: ALL

Protected: false

Appliance trust: none

**Answer:** static access (access mode)

Copyright @ 2019 [CiscoNet Solutions](#)