

## CCNP BCMSN(642-812) Lab - VTP

VLAN Trunk Protocol (VTP) reduces administration in a switched network. When you configure a new VLAN on one VTP server, the VLAN is distributed through all switches in the domain. This reduces the need to configure the same VLAN everywhere. VTP is a Cisco-proprietary protocol that is available on most of the Cisco Catalyst series products.

There is a Lab(about VTP) in the cisco CCNP BCMSN 642-812 exam.

The headquarter offices for a book retailer are enhancing their wiring closets with Layer3 switches. The new distribution-layer switch has been installed and a new access-layer switch cabled to it. Your task is to configure VTP to share VLAN information from the distribution-layer switch to the access-layer devices. Then, it is necessary to configure interVLAN routing on the distribution-layer switch to route traffic between the different VLANs that are configured on the access-layer switches; however, it is not necessary for you to make the specific VLAN port assignments on the access-layer switches. Also, because VLAN database mode is being deprecated by Cisco, all VLAN and VTP configurations are to be completed in the global configuration mode. Please reference the following table for the VTP and VLAN information to be configured.

[www.ciscobible.net](http://www.ciscobible.net)

Requirements:

VTP Domain name

cisco

VLAN Ids

20

21

IP Addresses

172.16.71.1/24

172.16.132.1/24

These are your specific tasks:

1. Configure the VTP information with the distribution layer switch as the VTP server

2. Configure the VTP information with the access layer switch as a VTP client
3. Configure VLANs on the distribution layer switch
4. Configure inter-VLAN routing on the distribution layer switch
5. Specific VLAN port assignments will be made as users are added to the access layer switches in the future.
6. All VLANs and VTP configurations are to be completed in the global configuration. To configure the switch, click on the host icon that is connected to the switch by way of a serial console cable.

Solutions:

**1. Configure the VTP information with the distribution layer switch as the VTP server**

```
DLSwitch#conf t
DLSwitch(config)#vtp mode server
DLSwitch(config)#vtp domain CISCO
```

**2. Configure VLANs on the distribution layer switch**

```
DLSwitch(config)#vlan 20
DLSwitch(config)#vlan 21
```

**3. Configure IP address for VLANs :**

```
DLSwitch(config)#int vlan 20
DLSwitch(if-config)#ip add 172.16.71.1 255.255.255.0
DLSwitch(if-config)#no shut
DLSwitch(if-config)#int vlan 21
DLSwitch(if-config)#ip add 172.16.132.1 255.255.255.0
DLSwitch(if-config)#no shut
DLSwitch(if-config)#exit
```

**4. Configure inter-VLAN routing on the distribution layer switch**

```
DLSwitch#ip routing
DLSwitch#copy run start
```

**5. Configure the VTP information with the access layer switch as a VTP client**

```
ALSwitch#conf t
ALSwitch(config)#vtp mode client
ALSwitch(config)#vtp domain CISCO
ALSwitch(config)#exit
ALSwitch#copy run start
```

**That is all, hope to be helpful for you. Best Luck for your BCMSN 642-812 Exam.**

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