

## Packet Tracer - Implement VLANs and Trunking

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### Addressing Table

Device	Interface	IP Address	Subnet Mask	Switchport	VLAN
PC1	NIC	192.168.10.10	255.255.255.0	SWB F0/1	VLAN 10
PC2	NIC	192.168.20.20	255.255.255.0	SWB F0/2	VLAN 20
PC3	NIC	192.168.30.30	255.255.255.0	SWB F0/3	VLAN 30
PC4	NIC	192.168.10.11	255.255.255.0	SWC F0/1	VLAN 10
PC5	NIC	192.168.20.21	255.255.255.0	SWC F0/2	VLAN 20
PC6	NIC	192.168.30.31	255.255.255.0	SWC F0/3	VLAN 30
PC7	NIC	192.168.10.12	255.255.255.0	SWC F0/4	VLAN 10 VLAN 40 (Voice)
SWA	SVI	192.168.99.252	255.255.255.0	N/A	VLAN 99
SWB	SVI	192.168.99.253	255.255.255.0	N/A	VLAN 99
SWC	SVI	192.168.99.254	255.255.255.0	N/A	VLAN 99

### Objectives

Part 1: Configure VLANs

Part 2: Assign Ports to VLANs

Part 3: Configure Static Trunking

Part 4: Configure Dynamic Trunking

### Background

You are working in a company that is getting ready to deploy a set of new 2960 switches in a branch office. You are working in the lab to test out the VLAN and trunking configurations that are planned. Configure and test the VLANs and trunks.

### Instructions

#### Part 1: Configure VLANs

Configure VLANs on all three switches. Refer to the VLAN Table. Note that the VLAN names must match the values in the table exactly.

VLAN Table

VLAN Number	VLAN Name
10	Admin
20	Accounts
30	HR
40	Voice
99	Management
100	Native

## Part 2: Assign Ports to VLANs

### Step 1: Assign access ports to VLANs

On SWB and SWC, assign ports to the VLANs. Refer to the Addressing Table.

### Step 2: Configure the Voice VLAN port

Configure the appropriate port on switch SWC for voice VLAN functionality.

### Step 3: Configure the virtual management interfaces

- Create the virtual management interfaces, on all three switches.
- Address the virtual management interfaces according to the Addressing Table.
- The switches should not be able to ping each other.

## Part 3: Configure Static Trunking

- Configure the link between SWA and SWB as a static trunk. Disable dynamic trunking on this port.
- Disable DTP on the switch port on both ends of the trunk link.
- Configure the trunk with the native VLAN and eliminate native VLAN conflicts if any.

## Part 4: Configure Dynamic Trunking

- Assume that the trunk port on SWC is set to the default DTP mode for 2960 switches. Configure G0/2 on SWA so that it successfully negotiates trunking with SWC.
- Configure the trunk with the native VLAN and eliminate native VLAN conflicts if any.

## Part 5: Post your screenshots

On the PT Activity window, make sure that the completion grade is **100%**. Click on the **Check Results** button and select the **Assessment Items** tab. Take a screen shot of the whole window, showing the table of assessment items, and the score/item count. Own your photo by placing a watermark on your photo with your name and USC ID Number. Paste your screenshot below:

## Packet Tracer - Implement VLANs and Trunking

Cisco Packet Tracer - D:\InBus\CPE 3212\3.6.1 Packet Tracer - Implement VLANs and Trunking.pka

File Edit Options View Tools Extensions Window Help

Activity Results Time Elapsed: 00:24:03

Congratulations Danica Marie A. Dumalagan! You completed the activity.

Overall Feedback **Assessment Items** Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
Network				
SWA				
Ports				
GigabitEthernet0/1				
✓ Native VLAN	Correct	1	Trunking	
✓ Nonnegotiate	Correct	1	Trunking	
✓ Port Mode	Correct	1	Trunking	
GigabitEthernet0/2				
✓ Dynamic Mode	Correct	1	Trunking	
✓ Native VLAN	Correct	1	Trunking	
Vlan99				
✓ IP Address	Correct	1	Ip	
✓ Port Status	Correct	1	Physical	
✓ Subnet Mask	Correct	1	Ip	
VLANs				
VLAN 10		0	Switching	
✓ VLAN Name	Correct	1	VLAN Config	
VLAN 100		0	Switching	
✓ VLAN Name	Correct	1	VLAN Config	
VLAN 20		0	Switching	
✓ VLAN Name	Correct	1	VLAN Config	
VLAN 30		0	Switching	
✓ VLAN Name	Correct	1	VLAN Config	
VLAN 40		0	Switching	
✓ VLAN Name	Correct	1	VLAN Config	
VLAN 99		0	Switching	
✓ VLAN Name	Correct	1	VLAN Config	
SWB				
Ports				
FastEthernet0/1		0	Other	
✓ Access VLAN	Correct	1	VLAN Config	
FastEthernet0/2		0	Other	
✓ Access VLAN	Correct	1	VLAN Config	
FastEthernet0/3		0	Other	
✓ Access VLAN	Correct	1	VLAN Config	
GigabitEthernet0/1				
✓ Native VLAN	Correct	1	VLAN Config	
✓ Nonnegotiate	Correct	1	Switching	
✓ Port Mode	Correct	1	Other	
Vlan99				
✓ IP Address	Correct	1	Ip	
✓ Port Status	Correct	1	Physical	

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Component	Items/Total	Score
Ip	6/6	6/6
Other	2/2	2/2
Physical	3/3	3/3
Switching	1/1	1/1
Trunking	6/6	6/6
VLAN Config	27/27	27/27

Score : 45/45  
Item Count : 45/45

Close