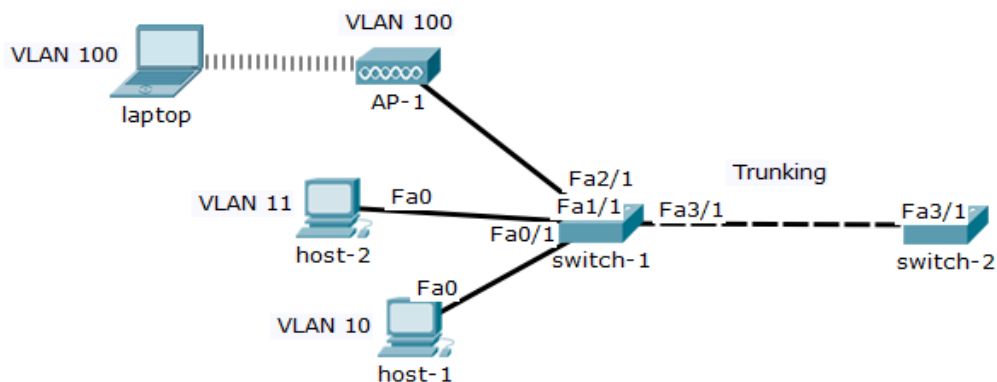


# Nondefault Native VLAN

## Lab Summary

Change the native VLAN on a trunk interface from the default 1 to 999 and allow VLAN 10, 11 and 100.

**Figure 1** Lab Topology



## Lab Configuration

Start Packet Tracer File: **Nondefault Native VLAN**

*Switch-1:*

Click on *switch-1* icon and select *CLI* folder. Hit <enter> key for user mode prompt.

Step 1: Enter global configuration mode.

```
switch-1> enable
Password: cisco
switch-1# configure terminal
```

Step 2: Enable static trunking on switch-1 interface Fa3/1 and turn off DTP frames.

```
switch-1(config)# interface fastethernet3/1
switch-1(config-if)# switchport mode trunk
switch-1(config-if)# switchport nonegotiate
```

Step 3: Change the default native VLAN 1 to nondefault native VLAN 999.

```
switch-1(config-if)# switchport trunk native vlan 999
```

Step 4: Allow only VLAN 10, VLAN 11 and VLAN 100 across the trunk interface.

```
switch-1(config-if)# switchport trunk allowed vlan 10-11,100
switch-1(config-if)# end
switch-1# copy running-config startup-config
```

### Switch-2:

Click on *switch-2* icon and select *CLI* folder. Hit <enter> key for user mode prompt.

Step 5: Enter global configuration mode.

```
switch-2> enable  
Password: cisconet  
switch-2# configure terminal
```

Step 6: Enable static trunking on switch-2 interface Fa3/1 and turn off DTP frames.

```
switch-2(config)# interface fastethernet3/1  
switch-2(config-if)# switchport mode trunk  
switch-2(config-if)# switchport nonegotiate
```

Step 7: Change the default native VLAN 1 to nondefault native VLAN 999.

```
switch-2(config-if)# switchport trunk native vlan 999
```

Step 8: Allow only VLAN 10, VLAN 11 and VLAN 100 across the trunk interface.

```
switch-2(config-if)# switchport trunk allowed vlan 10-11,100  
switch-2(config-if)# end  
switch-2# copy running-config startup-config
```

### Step 9: Verify Lab

Verify the trunk is operational, native VLAN is 999 and VLAN 10,11,100 are allowed across the trunk.

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

Port	Mode	Encapsulation	Status	Native vlan
Fa3/1	<b>on</b>	802.1q	<b>trunking</b>	<b>999</b>

Port	Vlans allowed on trunk
Fa3/1	<b>10-11,100</b>

Port	Vlans allowed and active in management domain
Fa3/1	<b>10,11,100</b>

Port	Vlans in spanning tree forwarding state and not pruned
Fa3/1	<b>10,11,100</b>

switch-2# **show interfaces trunk**

Port	Mode	Encapsulation	Status	Native vlan
Fa3/1	<b>on</b>	802.1q	<b>trunking</b>	<b>999</b>

Port	Vlans allowed on trunk
Fa3/1	<b>10-11,100</b>

Port	Vlans allowed and active in management domain
Fa3/1	10,11,100

Port	Vlans in spanning tree forwarding state and not pruned
Fa3/1	10,11,100

### Lab Notes

The native VLAN is assigned to the default VLAN 1 by default. Cisco recommends you assign the native VLAN to any other available VLAN for security purposes. The native VLAN number must match between neighbor switch interfaces to prevent VLAN hopping.