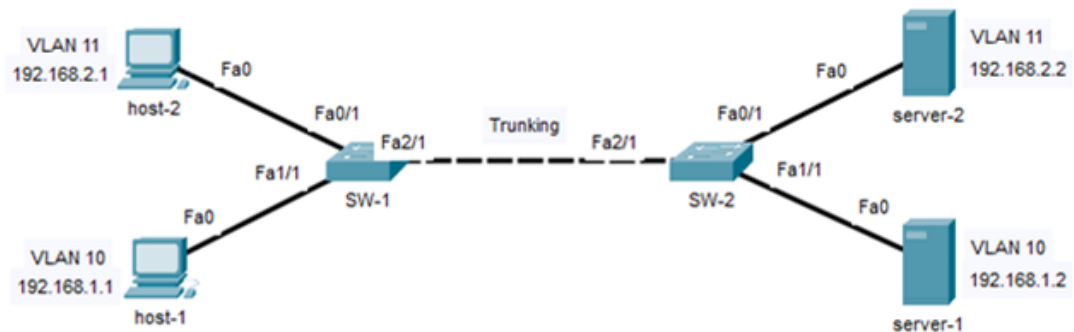


# Static Trunking

## Lab Summary

Configure access ports, assign VLANs and enable static trunk.

**Figure 1** Lab Topology



## Lab Configuration

Start Packet Tracer File: **static trunking.pkt**

Click on *SW-1* icon and select *CLI* folder.

Step 1: Enter global configuration mode.

```
SW-1> enable
SW-1# configure terminal
```

Step 2: Create VLAN 10 and assign it to access port Fastethernet1/1 for host-1.

```
SW-1(config)# vlan 10
SW-1(config-vlan)# exit
SW-1(config)# interface fastethernet1/1
SW-1(config-if)# switchport mode access
SW-1(config-if)# switchport access vlan 10
SW-1(config-if)# exit
```

Step 3: Create VLAN 11 and assign it to access port Fastethernet0/1 for host-2.

```
SW-1(config)# vlan 11
SW-1(config-vlan)# exit
SW-1(config)# interface fastethernet0/1
SW-1(config-if)# switchport mode access
SW-1(config-if)# switchport access vlan 11
SW-1(config-if)# exit
```

Step 4: Enable Fastethernet2/1 as a trunk interface and turn off DTP negotiation.

```
SW-1(config)# interface fastethernet2/1  
SW-1(config-if)# switchport mode trunk  
SW-1(config-if)# switchport nonegotiate
```

Step 5: Configure the default native VLAN and allow only VLAN 10 and 11 across the switch trunk.

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

Click on SW-2 icon and select *CL/* folder.

Step 6: Enter global configuration mode.

```
SW-2> enable  
SW-2# configure terminal
```

Step 7: Create VLAN 10 and assign it to access port interface Fa1/1 for server-1.

```
SW-2(config)# vlan 10  
SW-2(config-vlan)# exit  
SW-2(config)# interface fastethernet1/1  
SW-2(config-if)# switchport mode access  
SW-2(config-if)# switchport access vlan 10  
SW-2(config-if)# exit
```

Step 8: Create VLAN 11 and assign it to access port interface Fa0/1 for server-2.

```
SW-2(config)# vlan 11  
SW-2(config-vlan)# exit  
SW-2(config)# interface fastethernet0/1  
SW-2(config-if)# switchport mode access  
SW-2(config-if)# switchport access vlan 11  
SW-2(config-if)# exit
```

Step 9: Enable Fastethernet2/1 as a trunk interface and turn off DTP negotiation.

```
SW-2(config)# interface fastethernet2/1  
SW-2(config-if)# switchport mode trunk  
SW-2(config-if)# switchport nonegotiate
```

Step 10: Configure the default native VLAN and allow only VLAN 10 and 11 across the switch trunk.

```
SW-2(config-if)# switchport trunk allowed vlan 10,11
```

```
SW-2(config-if)# end
```

```
SW-2# copy running-config startup-config
```

Step 11: Verify Lab

Verify the trunk is operational and the native VLAN is 1. Confirm VLAN 10 and VLAN 11 are only allowed across the trunk interface.

```
SW-1# show running-config
```

```
SW-1# show interfaces trunk
```

Port	Mode	Encapsulation	Status	Native vlan
Fa2/1	<b>on</b>	802.1q	<b>trunking</b>	<b>1</b>

```
Port    Vlans allowed on trunk
```

```
Fa2/1   10-11
```

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

```
Fa2/1   10,11
```

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

```
Fa2/1   10,11
```

Verify that host-1 can ping server-1 in the same subnet (192.168.1.2/24) and not server-2 (192.168.2.2/24). Verify that host-2 can ping server-2 and not server-1.

```
host-1: c:\>ping 192.168.1.2 (yes)
```

```
host-1: c:\>ping 192.168.2.2 (no)
```

```
host-2: c:\>ping 192.168.2.2 (yes)
```

```
host-2: c:\>ping 192.168.1.2 (no)
```

### Lab Notes

The **switchport mode trunk** command configures a static trunk with **on** mode (manual). The **switchport nonegotiate** command turns off DTP frames as a recommended security best practice for static trunks.