

Switch# show interfaces status

Demonstrates that fa 0/11 is trunked

S2# show interfaces fa0/11 status

Port	Name	Status	Vlan	Duplex	Speed	Type
Fa0/11		connected	trunk	a-full	a-100	10/100BaseTX

Switch# show vlan brief

Fa 0/11 and 12 are missing because they're trunked. VLAN 30 isn't defined on this switch, but is on the other switch.

S2# show vlan br

VLAN	Name	Status	Ports
1	default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Fa0/21, Fa0/22 Fa0/23, Fa0/24, Gi0/1, Gi0/2
10	TEN	active	
20	TWENTY	active	
40	FORTY	active	

Switch# show vlan id 10

Now interfaces fa0/11 and 12 show up because they're carrying VLAN 10 as trunks.

S2# show vlan id 10

VLAN	Name	Status	Ports
10	TEN	active	Fa0/11, Fa0/12

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
10	enet	100010	1500	-	-	-	-	-	0	0

Remote SPAN VLAN

Disabled

Primary	Secondary	Type	Ports
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Switch# show mac address-table

This will show VLAN IDs if "show vlan" and "show interfaces switchport" are unavailable in a SIM.

```
S2#show mac address-table dynamic
```

Vlan	Mac Address	Type	Ports
1	000c.85ca.e28b	DYNAMIC	Fa0/11
1	000f.8f22.a340	DYNAMIC	Fa0/11
1	000f.8f4b.b4a0	DYNAMIC	Fa0/11
10	000c.85ca.e28b	DYNAMIC	Fa0/11
20	000c.85ca.e28c	DYNAMIC	Fa0/12
40	000c.85ca.e28b	DYNAMIC	Fa0/11

Switch# show interfaces trunk

Only shows ports with an operational status of trunking, not ports that might negotiate to trunk in future.

Each section is a progressively more restrictive VLAN list. VLAN 30 doesn't exist on this switch, VLAN 20 isn't allowed across fa0/11. Notice that STP didn't block fa0/12 for VLAN 20 because the hellos for VLAN 20 weren't getting through on fa0/11—no loop possible for VLAN 20 because it's not "allowed" on fa0/11.

```
S2#show interfaces trunk
```

Port	Mode	Encapsulation	Status	Native vlan
Fa0/11	desirable	802.1q	trunking	1
Fa0/12	desirable	802.1q	trunking	1

```
Port          Vlans allowed on trunk
Fa0/11        1,10,30,40
Fa0/12        1-4094
```

```
Port          Vlans allowed and active in management domain
Fa0/11        1,10,40
Fa0/12        1,10,20,40
```

```
Port          Vlans in spanning tree forwarding state and not pruned
Fa0/11        1,10,40
Fa0/12        20
```

Switch# show interfaces switchport

S2# show interfaces fa0/11 switchport

Name: Fa0/11
Switchport: Enabled
Administrative Mode: dynamic desirable
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Administrative Native VLAN tagging: enabled
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 Native VLAN tagging: enabled
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk associations: none
Administrative private-vlan trunk mappings: none
Operational private-vlan: none
Trunking VLANs Enabled: 1,10,30,40
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL

Protected: false
Unknown unicast blocked: disabled
Unknown multicast blocked: disabled
Appliance trust: none

S2# show interfaces fa0/12 switchport

Name: Fa0/12
Switchport: Enabled
Administrative Mode: dynamic desirable
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Administrative Native VLAN tagging: enabled
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 Native VLAN tagging: enabled
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk associations: none
Administrative private-vlan trunk mappings: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL

Protected: false
Unknown unicast blocked: disabled
Unknown multicast blocked: disabled
Appliance trust: none