

## CLI VLAN Commands

### Creating a VLAN

Task	IOS Command
Create a VLAN with a valid ID number (1 – 4095)	<b>S1(config)# vlan <i>vlan-id</i></b>
Specify a unique name to identify the VLAN	<b>S1(config-vlan)# name <i>vlan-name</i></b>
Return to the privileged EXEC mode	<b>S1(config-vlan)# end</b>

### VLAN Port Assignment Commands

Once a VLAN is created, we can then assign it to the correct interfaces

Task	IOS Command
Enter interface configuration mode	<b>S1(config)# interface <i>interface-id</i></b>
Set the port to access mode	<b>S1(config-if)# switchport mode access</b>
Assign the port to a VLAN	<b>S1(config-if)# switchport access vlan <i>vlan-id</i></b>
Return to the privileged EXEC mode	<b>S1(config-vlan)# end</b>

### Verify VLAN information

Show vlan [**brief** | **id** *vlan-id* | **name** *vlan-name* | **summary** ]

Task	IOS Command
Display VLAN name, status, and its ports, one VLAN per line	<b>S1# show vlan brief</b>
Display information about the identified VLAN ID number	<b>S1# show vlan <i>vlan-id</i></b>
Display information about the identified VLAN name.	<b>S1# show vlan <i>vlan-name</i></b>
Display VLAN summary information.	<b>S1# show vlan summary</b>

### Delete VLANs

Task	IOS Command
Delete a specific VLAN	<b>S1(config)# no vlan <i>vlan-id</i></b>
Delete all VLANs	<b>delete flash:vlan.dat</b> or <b>delete vlan.dat</b>
Reload the switch when deleting all VLANs	

### Trunking Configuration Commands

Task	IOS Command
Enter the interface configuration mode.	<b>S1(config)# interface <i>interface-id</i></b>
Set the port to permanent trunking mode	<b>S1(config-if)# switchport mode trunk</b>
Sets the native VLAN to something other than VLAN 1	<b>S1(config-if)# switchport trunk native vlan <i>vlan-id</i></b>
Specify the list of VLANs to be allowed on the trunk link.	<b>S1(config-if)# switchport trunk allowed vlan <i>vlan-list</i> (eg <i>vlan-list 10,20,30, 42.....</i>)</b>
For a STATIC trunk use the command	<b>S1(config-if)#switchport nonegotiate</b>
For DYNAMIC trunk see the table below for <i>option</i>	<b>S1(config-if)#switchport mode <i>option</i></b>

		One end of the cable			
		Dynamic Auto	Dynamic Desirable	Trunk	Access
The other end of the cable	Dynamic Auto	Access	Trunk	Trunk	Access
	Dynamic Desirable	Trunk	Trunk	Trunk	Access
	Trunk	Trunk	Trunk	Trunk	Limited Connectivity
	Access	Access	Access	Limited Connectivity	Access

### Verify Trunk Configuration

Task	IOS Command
Show the trunk configuration	<b>S1# show int <i>int-id</i> switchport</b>

### Reset the Trunk to the Default State

Task	IOS Command
Enter the configuration for the interface	<b>S1(config)# int <i>int-id</i></b>
Reset the trunk settings with the NO command	<b>S1(config-if)# no switchport trunk allowed S1(config-if)# no switchport trunk native vlan</b>
Reset the trunk to an access mode	<b>S1(config-if)# switchport mode access</b>