

Configure VTP

<code>vtp domain CCNA</code>	set the domain as CCNA
<code>vtp mode server</code>	set mode (server, client or transparent)
<code>vtp password cisco</code>	set password
<code>show vtp status</code>	confirm vtp config

Configure DTP

<code>interface f0/1</code>	enter interface configuration mode
<code>switchport mode dynamic desirable</code>	set vtp mode (desirable or auto)
<code>show interfaces trunk</code>	confirm trunk configuration

modes: client, trunk, dynamic desirable, dynamic auto
 desirable actively tries to create trunk
 auto only creates trunk when other side wants a trunk

Extended VLANs

<code>vtp mode transparent</code>	switch must be transparent
<code>vlan 2000</code>	any number higher than 1005 is an extended VLAN

Generic VLAN commands

<code>vlan 10</code>	create vlan with number 10
<code>name Red</code>	set the name of the VLAN
<code>switchport mode [access trunk]</code>	configure port as access or trunk port
<code>switchport access vlan 10</code>	configure port as belonging to vlan 10
<code>show vlan brief</code>	confirm vlan configuration

Etherchannel - PAgP

<code>interface range f0/3-4</code>	configure multiple interfaces at once
<code>channel-group 1 mode desirable</code>	add ports to etherchannel 1, mode can be auto or desirable
<code>no shutdown</code>	
<code>show run interface f0/3</code>	show configuration of specific interface
<code>show interfaces f0/3 switchport</code>	see operational mode
<code>show etherchannel summary</code>	confirm that etherchannel has been created
<code>interface port-channel 1</code>	configure the created etherchannel
<code>switchport mode trunk</code>	
<code>switchport trunk native vlan 99</code>	acts like a normal switchport
desirable: try to create etherchannel automatically auto: only create etherchannel when requested by other port	

Link Aggregation - LACP

<code>interface range f0/1-2</code>	configure multiple interfaces at once
<code>switchport mode trunk</code>	set as trunk
<code>switchport trunk native vlan 99</code>	
<code>channel-group 2 mode active</code>	create link aggregation for ports - can be active or passive
<code>no shutdown</code>	
active: try to create link aggregation automatically passive: only create link aggregation when requested by other port	



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