VLAN, VTP, DTP, EtherCannel Cheat Sheet

by marcx28 via cheatography.com/100679/cs/21116/

Configure VLAN

vlan <nu mbe r>	Creates a VLAN
name <na me>	Sets name of a VLAN
switchport mode access vlan <nu mbe - r>	Assigns interface to a VLAN
show vlan brief	Shows VLANs
switchport mode [access | trunk]	Sets Port to Access or Trunk

Configure VTP

vtp domain <do mai n>	Set VTP domain
vtp password <pa ssw ord>	Set VTP password
vtp mode [server | client | transp arent]	Set VTP mode to Server, Client or Transp-arent
show vtp status	Shows status of VTP

VLAN Trunking Protocol distributes the VLANs added to the VTP Server to all Switches in the domain. Therefore you do not have to configure every VLAN on every Switch yourself.

Configure DTP

DTP - Negotiated Interfaces Modes

	Dynamic Auto	Dynamic Desirable	Trunk	Access
Dynamic Auto	Access	Trunk	Trunk	Access
Dynamic Desirable	Trunk	Trunk	Trunk	Access
Trunk	Trunk	Trunk	Trunk	Limited Connectivity
Access	Access	Access	Limited Connectivity	Access

EtherChannel

interface range F0/3 - F0/4	Confi multi interf at on
channe l-group <nu mbe r> mode [auto | desirab le]	Adds to Ether hann with mode auto desir
interface port-c hannel <nu mbe r>	Confi the Ether hann
switchport mode trunk	Sets interf to Tru
switchport trunk native vlan <nu mbe r>	Sets native VLAN
show etherc hannel summary	Show inform ation about Ether hann

An EtherChannel summarizes a few physical cables to one logical cable and can therefore speed up the transfer of data. It is only available for Cisco Devices.

Link Aggregation

interface range F0/0 - F0/1	Configure multiple interfaces at once
switchport mode trunk	Set interface to Trunk
switchport trunk native vlan <nu mbe - r>	Set the native VLAN
channe l-group <nu mbe r> mode [active | passive]	

Link Aggregation is the same as EtherChannel but is device indepe-

`switchport mode access`	Puts the interface into permanent nontrunking mode
`switchport mode trunk`	Puts the interface into permanent trunking modePuts the interface
`switchport mode dynamic auto`	Makes the interface able to convert the link to a trunk link (becomes trunk if neighbor is set to trunk or desirable)
`switchport mode dynamic desirable`	Makes the interface actively attempt to convert the link to a trunk link (becomes trunk if neighbour is trunk, desirable or dynamic auto)
`switchport nonego tiate`	Prevents the interface generating DTP frames
`show dtp interface <in ter fac e>`	Shows DTP inform-ation for an interface
`debug dtp states`	Shows DTP actions

Dynamic Trunking Protocol helps to negotiate if an interface is a trunk or access interface.

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