

Router

Get info from router

Command	Meaning
<code>show running-config</code>	Shows the current configuration that runs on the device
<code>show access-lists</code>	Shows all the access-lists configured on the device
<code>show mac-address-table</code>	Shows the table with all the known MAC addresses
<code>show port-security <interface></code>	Get information about the port-security on specific port
<code>show version</code>	Get the inventory list of the device
<code>show ip route</code>	Shows all the routes
<code>show cdp neighbors detail</code>	Get info from connected devices
<code>show vlan</code>	Get all the VLAN's on the router
<code>show vtp</code>	
<code>show spanning-tree</code>	
<code>show controllers</code>	
<code>show flash</code>	Show flashable files to upgrade the OS
<code>show file systems</code>	Output the IOS files or images

Usefull commands

Command	Meaning
<code>enable</code>	Go to EXEC mode
<code>configure terminal</code>	Go to config mode
<code>hostname <name></code>	Change the hostname of the device
<code>clear mac-address-table</code>	Clears the MAC address table
<code>copy flash tftp</code>	Copy current flash to a tftp server
<code>copy tftp flash</code>	Upgrade flash from tftp server
<code>remark <comment></code>	Add comment to the next command, when you do <code>show running-config</code> you can see all your remarks

Configure interface

Command	Options	Meaning
<code>interface <name></code>		Select the interface
<code>ip address <ip> <subnetmask></code>		Configure the ip address / subnetmask

Configure telnet access

Config mode `conf t`

Command	Meaning
1. <code>line vty 0 4</code>	
2. <code>password <pw></code>	Set the password
3. <code>login</code>	Enable the password on login

EIGRP

Config mode `conf t`

Command	Meaning
Command	Meaning
router eigrp	
network A.B.C.D	

IPv6

Configure IPv6 interface -> conf t-> ipv6 unicast-routing-> int giga 0/0-> ipv6 address 2001:DB8:1:1::1/64
-> ipv6 address FE80::1 link-local

Configure RIP for IPv6 -> conf t -> ipv6 router rip CISCO

Configure OSPF -> conf t -> ipv6 unicast-routing -> ipv6 router ospf 10 -> router id 1.1.1.1 -> int giga 0/0 -> ipv6 ospf 10 area 0

Switch

Configure Interface

Config mode conf t Interface mode interface <name>

Command	Options	Meaning
switchport mode	trunk	Configure port as trunk port
	access vlan <nr>	Change port to specific vlan
	access	Change port to access mode
switchport port-security	violation shutdown	If violation occurs the port is shutdown
	mac-address sticky	The mac addresses are learned when new one gets plugged in
ip access-group <nr>	in	
	out	

Create ACL

Config mode conf t

Command	Options	Meaning
ip access-list	standard <name>	
	extended <name>	
permit tcp host A.B.C.D host A.B.C.D eq www		Permit traffic on port 80
deny ip any any		Block all traffic

Create VLAN

Config mode conf t

Command	Meaning
vlan	