

# Router

## Get info from router

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

## Usefull commands

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

## Configure interface

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

## Configure telnet access

Config mode `conf t`

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