

# 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 verion	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
router eigrp	
network A.B.C.D	

## Switch

### Configure Interface

Config mode `conf t` Interface mode `interface <name>`

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

### Create ACL

Config mode `conf t`

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

### Create VLAN

Config mode `conf t`

Command	Meaning
<code>vlan</code>	