

### User exec mode:

Router>

### Privileged exec mode

Router> enable

Router#

### Global Configuration mode

Router# configure terminal

Router (config)#

### Hostname Configuration

Router (config)# hostname *name*

### Interface configuration

Router(config)# interface *name number*

Router(config-if)# ip address *ip network-mask*

Router(config-if)# no shutdown

Router(config-if)# description *description*

Router(config-if)# clock rate *number*

### Banner Configuration

Router(config)# banner motd # *banner message* #

### Enable Password Configuration

Router(config)# enable password *parola*

Router(config)# enable secret *parola*

### Vty Lines Configuration (activate the telnet access)

Router(config)# line vty 0 4

Router(config-line)# password *parola*

Router(config-line)# login

Router(config-line)# logging synchronous

### Console Line Configuration (secure console access)

Router(config)# line console 0

Router(config-line)# password *parola*

Router(config-line)# login

Router(config-line)# logging synchronous

### Routes Configuration

Router (config)# ip route *retea\_destinatie masca\_destinatie*  
[ *interfata\_iesire* | *ip\_next\_hop* ]

### User exec mode:

Switch>

### Privileged exec mode

Switch> enable

Switch#

### Global Configuration mode

Switch# configure terminal

Switch (config)#

### Hostname Configuration

Switch(config)# hostname *name*

### Banner Configuration

Switch(config)# banner motd # *banner message* #

### Enable Password Configuration

Switch(config)# enable password *parola*

Switch(config)# enable secret *parola*

### Management Interface Configuration

Switch (config)# interface vlan 1

Switch (config-if)# ip address *ip network-mask*

Switch (config-if)# no shutdown

Switch (config-if)# description *Management Interface*

### To access the switch's management interface from other networks

Switch (config)# ip default-gateway *ip*

### Vty Lines Configuration (activate the telnet access)

Switch(config)# line vty 0 4

Switch(config-line)# password *parola*

Switch(config-line)# login

Switch(config-line)# logging synchronous

### Console Line Configuration (secure console access)

Switch(config)# line console 0

Switch(config-line)# password *parola*

Switch(config-line)# login

Switch(config-line)# logging synchronous

## USEFUL SHOW COMMANDS

R# show running-config  
R# show startup-config  
R# show ip interface brief  
R# show interface *name number*  
R# show controllers *serial number*  
R# show ip route  
R# ping *ip*  
R# traceroute *ip*  
R# show flash  
R# show processes  
R# show version  
R# show arp

## NEVER FORGET

R# copy running-config startup-config

## USEFUL SHOW COMMANDS

S# show running-config  
S# show startup-config  
S# copy running-config startup-config  
S# show ip interface brief  
S# show vlan brief  
S# show mac-address-table

## TIPS

ctrl + a = te duce la inceputul liniei de comanda

ctrl + e = te duce la finalul liniei de comanda