

Μέσα στο 3^ο Mode υπάρχουν επιλογές για πιο εξειδικευμένες

ρυθμίσεις (configurations). Π.χ.

Interface configuration

Router(config)# **interface** "type port" (όπου type port Fa0/0, s0/0/0 κ.λπ.) ή

Router(config)# **int fa0/0**

Router (config-if)#

Παραδείγματα:

Configuring ethernet interface

Router(config)# **interface fa0/0** ή **int fa0/0**

Router(config-if)# **ip address 192.168.1.1 255.255.255.0** ή **ip add 192.168.1.1 255.255.255.0**

Router(config-if)# **no shutdown** ή **no shut**

Configuring serial interface DCE

Router(config)# **interface serial 0/0/0**

Router(config-if)# **ip address 192.168.100.1 255.255.255.0**

Router(config-if)# **clock rate 64000**

Router(config-if)# **no shutdown**

Configuring serial interface DTE

Router(config)# **interface serial 0/0/1**

Router(config-if)# **ip address 192.168.15.4 255.255.255.0**

Router(config-if)# **no shutdown**

A router should be given a unique name as one of the first configuration tasks. This task is accomplished in global configuration mode with the following command:

```
Router(config)#hostname KOKKINOCHORIA  
KOKKINOCHORIA(config)#
```

The following commands are used to set an optional but recommended password on the console line:

```
Router(config)#line console 0  
Router(config-line)#password mypassword  
Router(config-line)#login
```

A password must be set on one or more of the vty lines for users to gain remote access to a router through Telnet. Most Cisco routers support five vty lines numbered 0 through 4. Other hardware platforms support different numbers of vty connections. The same password is generally used for all vty lines. However, a unique password can be set for one line to provide a fall-back entry to the router if the other four connections are in use. The following commands are used to set a password on vty lines:

```
Router(config)#line vty 0 4  
Router(config-line)#password mypassword  
Router(config-line)#login
```

The enable password and enable secret commands are used to restrict access to the privileged EXEC mode. The enable password is only used if the enable secret has not been set. The enable secret command should be used because the enable secret command is encrypted. The enable password command is not encrypted. The following commands are used to set the passwords:

```
Router(config)#enable password mypassword  
Router(config)#enable secret mypassword
```

Sometimes it is undesirable for passwords to be shown in clear text in the output from the show running-config or show startup-config commands. This command is used to encrypt passwords in configuration output:

```
Router(config)#service password-encryption
```

The service password-encryption command applies a weak encryption to all unencrypted passwords. The enable secret<password> command uses a strong MD5 algorithm for encryption.

Serial interfaces require a clock signal to control the timing of the communications. In most environments, a DCE device such as a CSU/DSU will provide the clock. By default, Cisco routers are DTE devices but they can be configured as DCE devices.

To save the configuration variables to the startup configuration file in NVRAM, enter the following command at the privileged EXEC prompt:

```
Router#copy running-config startup-config ṡ Router#copy run start
```

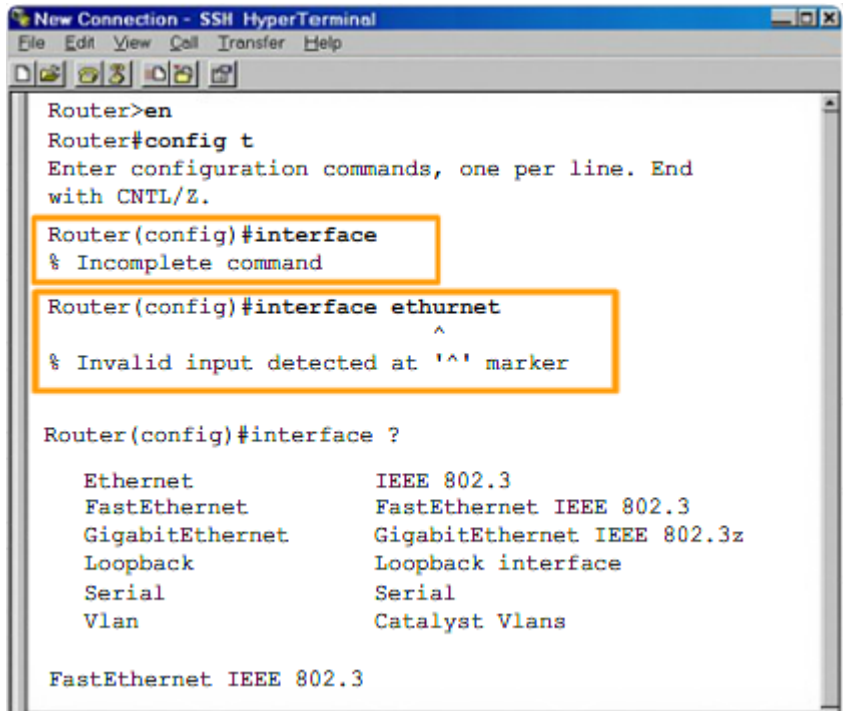
```
Press RETURN to get started.
```

```
Router> ← User-Mode Prompt
Router>enable
Router# ← Privileged-Mode Prompt
Router#disable
Router>
Router>exit
```



```
Router#
Router#configure terminal ← Global Configuration mode command
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# ← Global Configuration mode
Router(config)#interface fastethernet0/1 ← Interface Configuration Sub-Mode command
Router(config-if)# ← Interface Configuration Sub-Mode
Router(config-if)#ip address ?
A.B.C.D IP address
dhcp IP Address negotiated via DHCP
pool IP Address autoconfigured from a local DHCP pool

Router(config-if)#ip address 10.10.10.1 255.255.255.0
```

The screenshot shows a HyperTerminal window titled "New Connection - SSH HyperTerminal". The terminal output is as follows:

```
Router>en
Router#config t
Enter configuration commands, one per line. End
with CNTL/Z.
Router(config)#interface
% Incomplete command
Router(config)#interface ethurnet
^
% Invalid input detected at '^' marker

Router(config)#interface ?

Ethernet IEEE 802.3
FastEthernet FastEthernet IEEE 802.3
GigabitEthernet GigabitEthernet IEEE 802.3z
Loopback Loopback interface
Serial Serial
Vlan Catalyst Vlans

FastEthernet IEEE 802.3
```

Set Device Name

```
Router(config)#hostname TokyoRouter
TokyoRouter(config)#
```

Enable Password

```
Router(config)#enable password san-fran
```

Enable Encrypted Password

```
Router(config)#enable secret password123
```

Console Password

```
Router(config)#line console 0
Router(config-line)#password cisco
Router(config-line)#login
```

Virtual Terminal Password

```
Router(config)#line vty 0 4
Router(config-line)#password cisco
Router(config-line)#login
```

Perform Password Encryption

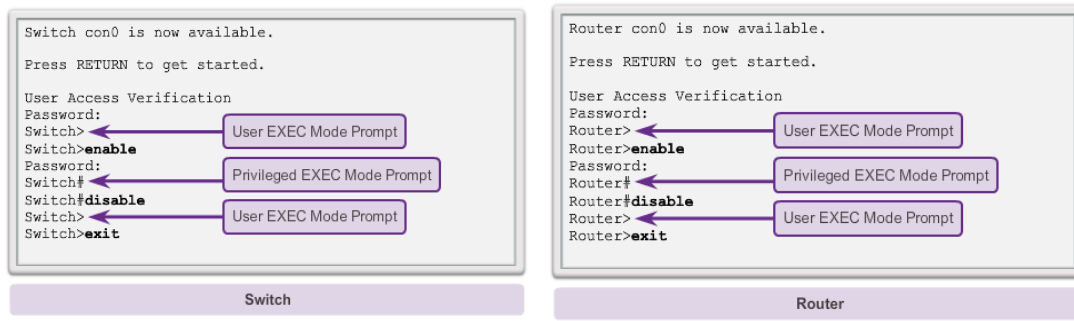
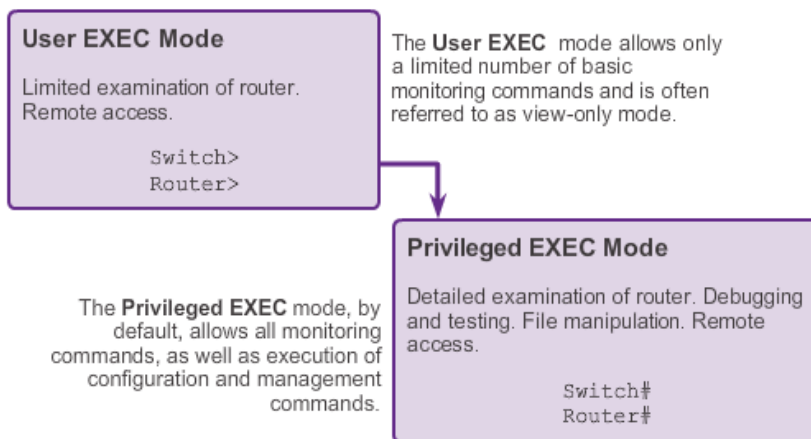
```
Router(config)#service password-encryption
```

SSH HyperTerminal

```
R1 (config)#banner motd #
Enter TEXT message. End with the character '#'.
*****
WARNING!! Unauthorized Access Prohibited!!
*****
#
```

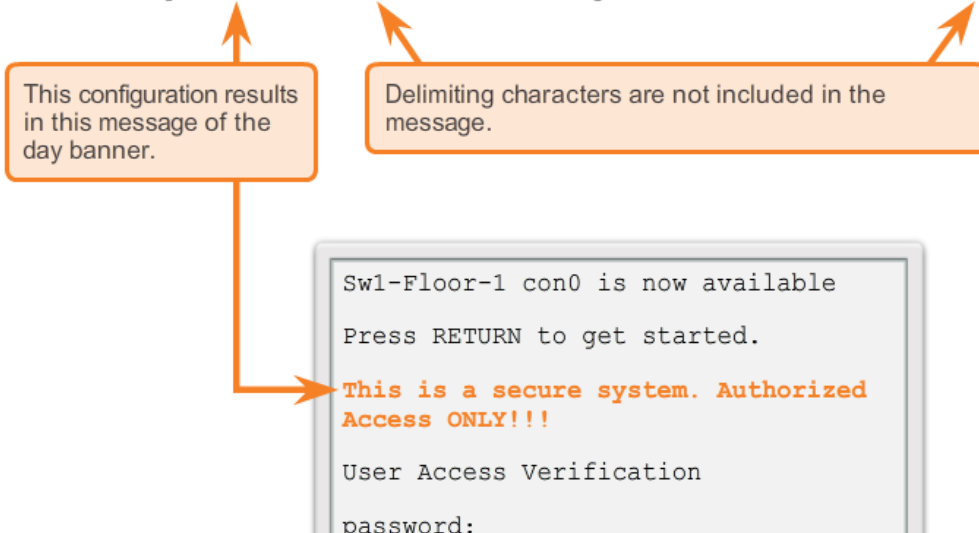
Interface Configuration

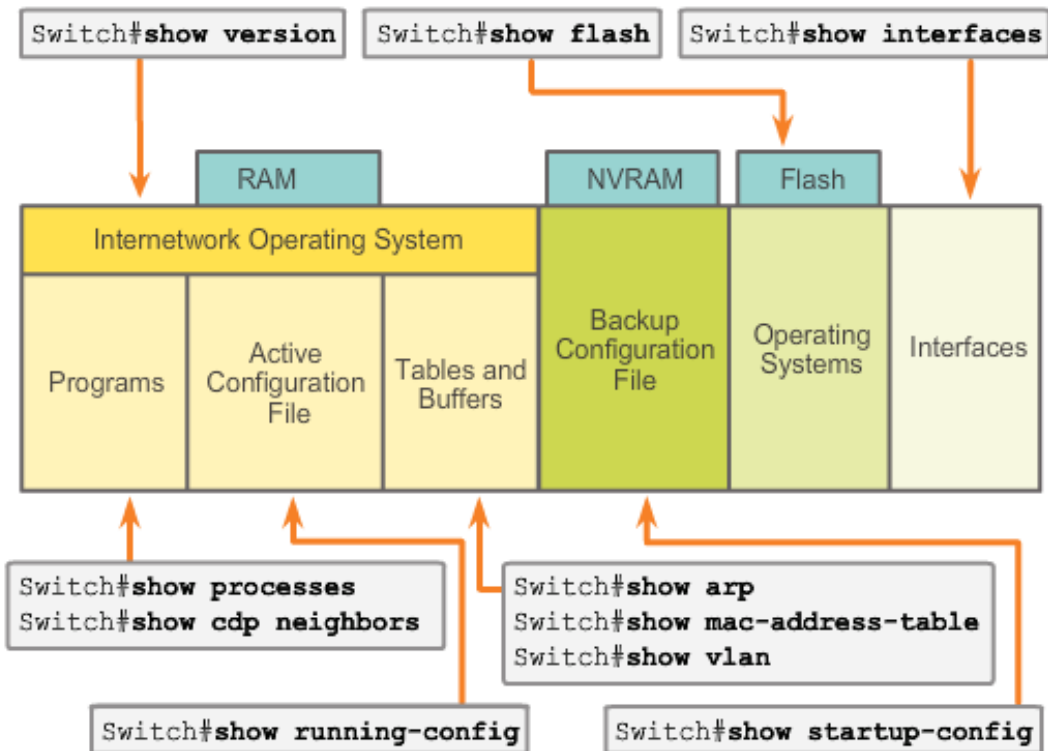
```
Router(config)#interface fastethernet 0/0
Router(config-if)#description connection to Admin LAN
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface serial 0/0/0
Router(config-if)#description connection to Router2
Router(config-if)#ip address 192.168.1.125 255.255.255.0
Router(config-if)#clock rate 64000
Router(config-if)#no shutdown
```



Limiting Device Access - MOTD Banner

```
Sw1-Floor-1(config)#banner motd # This is a secure system. Authorized Access ONLY!!! #
```





IOS `show` commands can provide information about the configuration, operation, and status of parts of a Cisco switch or router.

Saving and Erasing the Configuration

