



Summary

- Password Recovery (on the router)
- The CDP protocol
- The TFTP protocol
- Practical work



Password Recovery (1/2)

- 1. Restart the router
- 2. While the router is just booting, press simultaneously Alt + Shift + B
- 3. The router then enter in « Rommon » mode

Rommon1>confreg 0x2142

You must reset or power cycle for new config to take effect Rommon2>reset

• Warning: Don't make mistake with the configuration register value.



Password Recovery (2/2)

Resetting the router in the initial state

Router>enable

Router#>configure terminal

Enter configuration commands, one per line. End with CNTL/Z

Router(config)#>config-register 0x2102

Router(config)#>hostname lab1-ro1841-1

Lab1-ro1841-1(config)#>enable secret cisco

Lab1-ro1841-1(config)#>exit

Lab1-ro1841-1#>reload

System configuration has been modified. Save ? [yes/no]: yes

Proceed with reload ? [confirm]



The CDP protocol (1/2)

- CDP (Cisco Discovery Protocol) is a layer 2 TCP/IP protocol allowing a network equipment to discover its neighbour directly connected.
- Activating CDP
 - ♦ On all interfaces

Lab1-ro1841-1(config)#>cdp run

♦On a single interface

Lab1-ro1841-1(config)#>interface fastEthernet 0/0

Lab1-ro1841-1(config-if)#>cdp enable



The CDP protocol (2/2)

Clear CDP

Lab1-ro1841-1#>clear cdp table

Counters Clear CDP Counters

Table Clear CDP Table

Neighbour detailed informations

Lab1-ro1841-1#>show cdp neighbors detail

Other command: « show cdp »

Lab1-ro1841-1#>show cdp?

Entry Information for specific neighbor entry

Interface CDP interface status and configuration

Neighbors CDP neighbors entries





The TFTP protocol (1/2)

- TFTP (Trivial File Transfer Protocol) is a simplified file transfer protocol, running over UDP.
- Send a router configuration file to a remote TFTP server

```
Lab1-ro1841-1#>copy running-config tftp:
Address or name of remote host [] ? 192.168.2.1
Destination filename [running-config] ? Lab1-ro1841-1-config !!
896 bytes copied in 0.836 secs
Lab1-ro1841-1#>
```



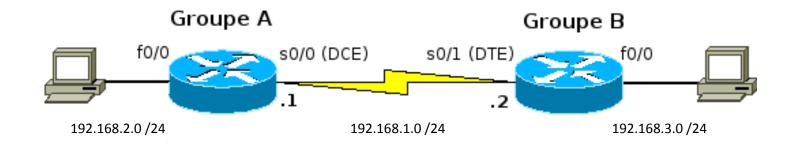
The TFTP protocol (2/2)

Download a configuration file from a TFTP server

```
Lab1-ro1841-1#>copy tftp running-config:
Address or name of remote host [] ? 192.168.2.1
Source filename [lab1-ro1841-1-config] ?
Destination filename [running-config] ?
Accessing tftp://192.168.2.1/lab1-ro1841-1-config
Loading lab1-ro1841-1-config from 192.168.2.1 (via FastEthernet 0/0): !
[OK - 896/1024 bytes]
896 bytes copied in 0.836 secs
```



Practical work



- Recover the password on your router
- Install a TFTP server on a PC and plug it on router « Groupe A ».
- Copy the file configuration of router « Groupe A » on the TFTP server and retrieve this configuration on router « Groupe B »
- Find the IOS version, the hostname and IP address of the router
 Group B » (from router « Group A »), using CDP commands.