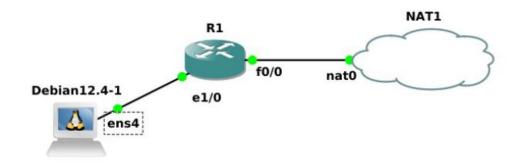
Task 4 - Basic Cisco Router Configuration

In this task, we will implement basic configuration for accessing CISCO router.

Implement the following topology using c7200 router and a debian terminal.



Configuration R1

Open the R1 terminal and follow the steps below to configure it.

Change the hostname of the Router to the	enable
number	config t
your registry number.	hostname 1074545
(those who modify the SI, should set	exit
the modified AM. The correction script will	wri
calculates itself, from the IP to be set	
below)	
Configure access via console with the	enable
following settings and passwd the number	config t
your registry number.	line console 0
(those who modify the SI, should set	password 1074545
the modified SI)	history size 15
History size.	login
Number of commands the router's local	logging synchronous
buffer can show.	exit
Login: triggers the passwd request the	exit
time of login (without the command,	wri
passwd	
is stored but not activated).	
See below for the difference between login	
and login local.	
logging synchronous: prints	
"synchronously" the	
output messages (e.g. from command	
execution)	
on the screen.	
Configure telnet access with the	enable
the following settings with passwd number	config t
your registry number.	line vty 0 15
(those who modify the AM, should set	password 1074545

the modified SI) VTY: Virtual TYpe or Virtual Terminal (usually telnet and ssh) Login local: authentication is done with credentials created by adding new user (see next command). Alternatively with local no username will be requested.	history size 15 login local logging synchronous exit exit wri
Adding a user (without adding a user, by telneting username is requested, which we don't have yet added yet). Add a user with username/passwd registry number and privilege = 10 (those who modify the AM, should set the modified SI)	enable conf t username 1074545 privilege 10 password 1074545 exit wr
Enter passwd to allow the user to enter the router in config mode	enable config t enable secret cisco exit wr
Enable dhcp-client on the interface FastEthernet 0/0	<commands from="" previous="" task="" the=""></commands>
Assign IP address to interface e1/0 according to your registry number πx 1074545 -> 107.45.45.1/24 (modify the SI as in the previous task)	<commands from="" previous="" task="" the=""></commands>
Implement DHCP server on interface e1/0	enable config t interface Ethernet 1/0 ip dhcp pool DHCPpool network 107.45.45.1 255.255.255.0 dns-server 8.8.8.8 default-router 107.45.45.1 service dhcp exit wr
Implement NAT on interface e1/0. Commands are given.	configure t interface FastEthernet 0/0 ip nat outside exit exit wr enable configure terminal interface Ethernet 1/0 ip nat inside ip nat inside source list 1 interface

FastEthernet 0/0 overload
access-list 1 permit 107.45.45.1
0.255.255.255
exit
wr

Questions:

Open the debian terminal and:

- 1. Run ip a and point to the IP assigned to it.
- 2. Run ping 8.8.8.8.8 and show the results.
- 3. Run sudo traceroute -n 8.8.8.8 and show the results.
- \circ (the traceroute command requires elevated administrator (sudo) permissions and in the case of

vmware NAT filters UDP packets, use the ICMP protocol: sudo traceroute -n -I 8.8.8.8).

- 4. Telnet to R1 and confirm your passwords (you must first update and install telnet and gcc as in the previous tasks).
- Run telnet <IP address of R1 e.g. 107.45.45.1> and confirm that you are connecting with username/passwd your registry number.