Lab07 Instructions – NAT

What you need:

1. Latest Packet Tracer on your laptop
2. Lab 06 PT submission you have provided

Goal:

Create a static NAT to shield the Server and the client addresses.

EXTRA: For other NAT configurations and techniques, please check the video resource at page 2.

Tasks:

1. Copy Lab 6 Packet Tracer File that you have submitted into a new Lab 07 submission file.(e.g. New file: Lab07Submission)
2. Open your newly copied Lab 07 PT file.
3. From the PC, open the web browser and enter the IP address of the server. Make sure you can see the server webpage. (take a screenshot and name it **task3**)
4. Delete the static routing information at router 0 and 1.
   (NAT is not replacement for static routing!! Further comments & discussion will be given in the theory class)
5. Enable the Server Side router's (Router 1) NAT with correct IP Addresses

   The commands in sequence that you should use the the CLI at Router (see last page)

```
enable
configure terminal
int fa0/1
ip nat out

int fa0/0
ip nat inside
ip nat inside source static IP1  IP2
```

   (IP1 is the server address to be hidden, and IP2 is the public address)
   At the other side (at router 0), repeat the same commands, using appropriate addresses.

5. From the PC, open the web browser again and enter the public IP address that is mapped to the router. (take a screenshot and name it **task5**)
6. Enable simulation mode and remove all filters and enable http filter
7. Repeat step 5 and use forward button to move the pdu to the server and back to PC
8. Examine the source and destination IP addresses at:
   Router 0 coming from PC (inbound and outbound) **take screenshots and name them task8-1-1 and task8-1-2**
   Router 1 coming from router 0 (inbound and outbound) **take screenshots and name them task8-2-1 and task8-2-2**

9. Fill in the attached txt file (**task9.txt**)

What to submit?

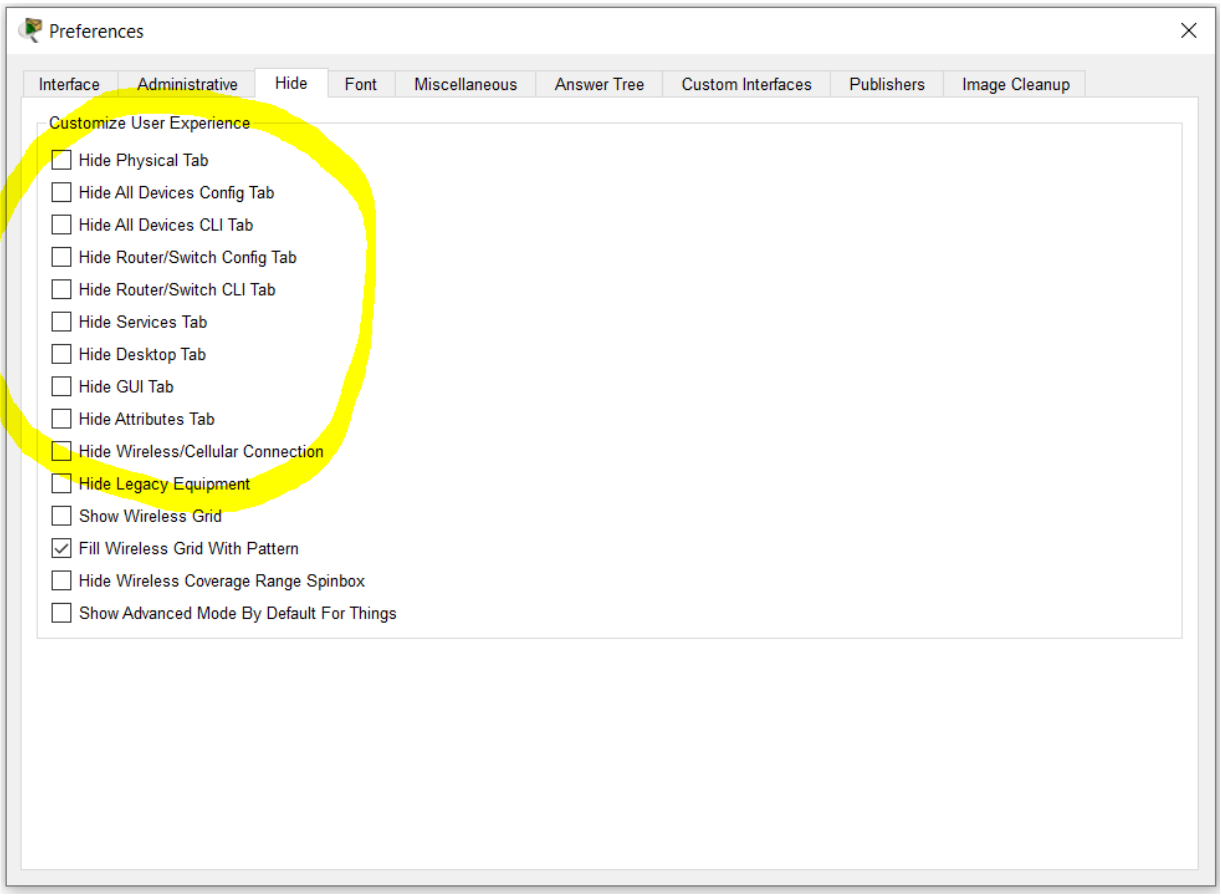
Six screenshots and one text file.
Please submit all files as separate files without zipping

Hints:

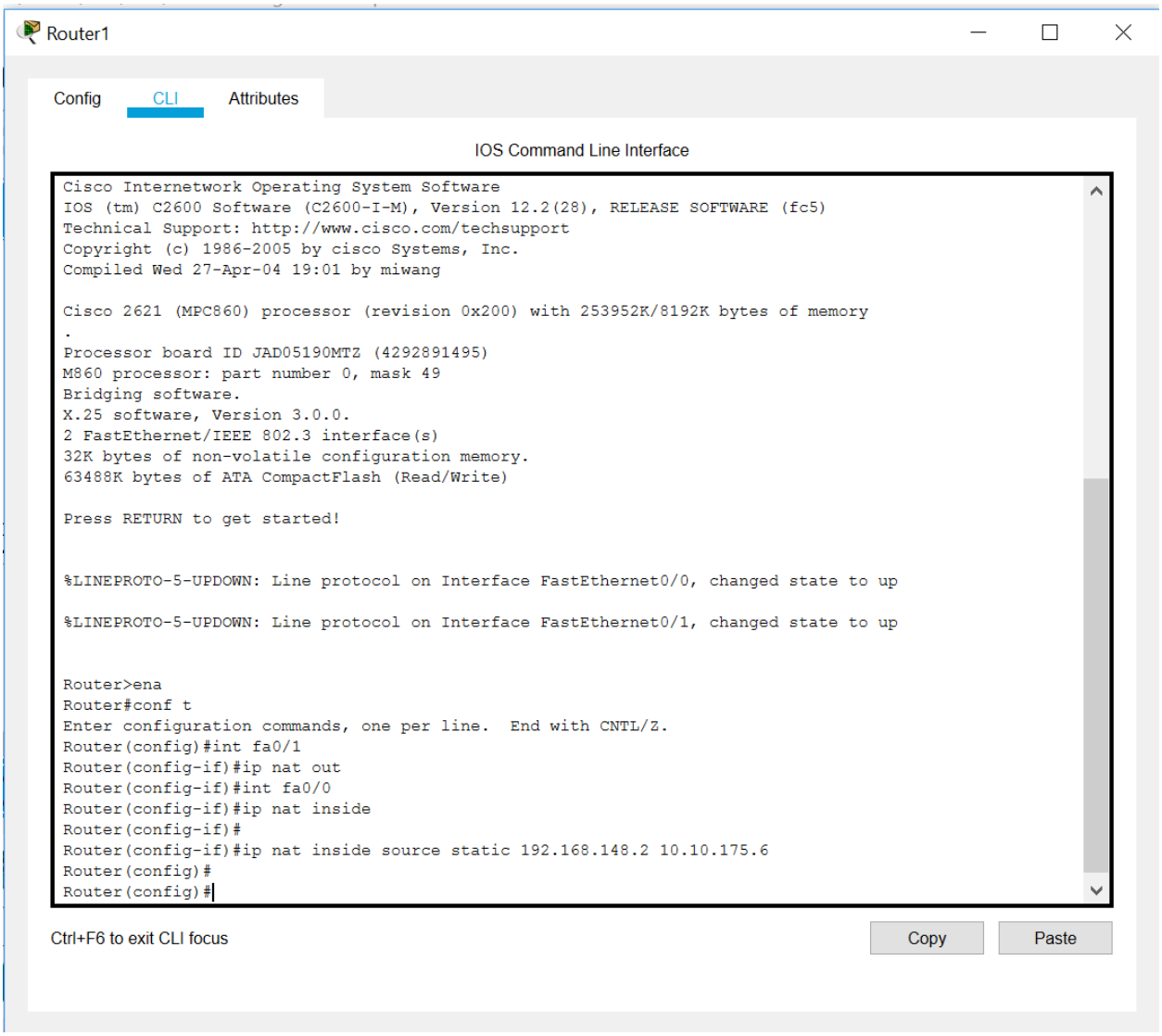
Hint1: Please watch the following recommended video to complete this assignment.

https://www.youtube.com/watch?v=dUfKR2wC1Y4

Hint 2: Router CLI commands Interface: Make sure CLI interface is not hidden from Packet Tracer Preferences…



Hint3: Sample commands for static NATing. Use your IP addresses accodinngly.


Router1
Config
CLI
Attributes
IOS Command Line Interface
Cisco Internetwork Operating System Software
IOS (tm) C2600 Software (C2600-I-M), Version 12.2(28), RELEASE SOFTWARE (fc5)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2005 by cisco Systems, Inc.
Compiled Wed 27-Apr-04 19:01 by miwang
Cisco 2621 (MPC860) processor (revision 0x200) with 253952K/8192K bytes of memory
.
Processor board ID JAD05190MTZ (4292891495)
M860 processor: part number 0, mask 49
Bridging software.
X.25 software, Version 3.0.0.
2 FastEthernet/IEEE 802.3 interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)
Press RETURN to get started!
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
Router>ena
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/1
Router(config-if)#ip nat out
Router(config-if)#int fa0/0
Router(config-if)#ip nat inside
Router(config-if)#
Router(config-if)#ip nat inside source static 192.168.148.2 10.10.175.6
Router(config)#
Router(config)#
Ctrl+F6 to exit CLI focus
Copy
Paste