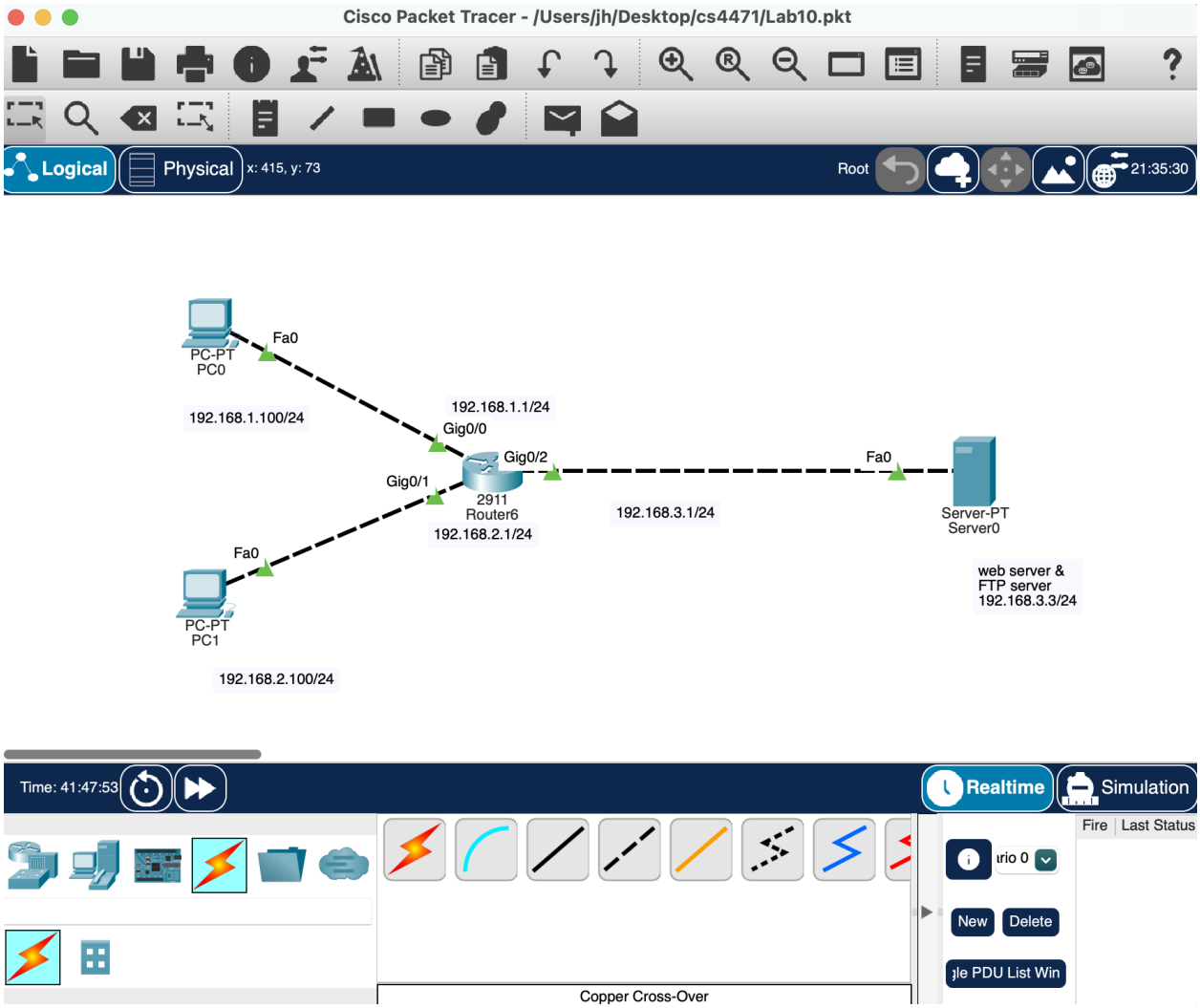
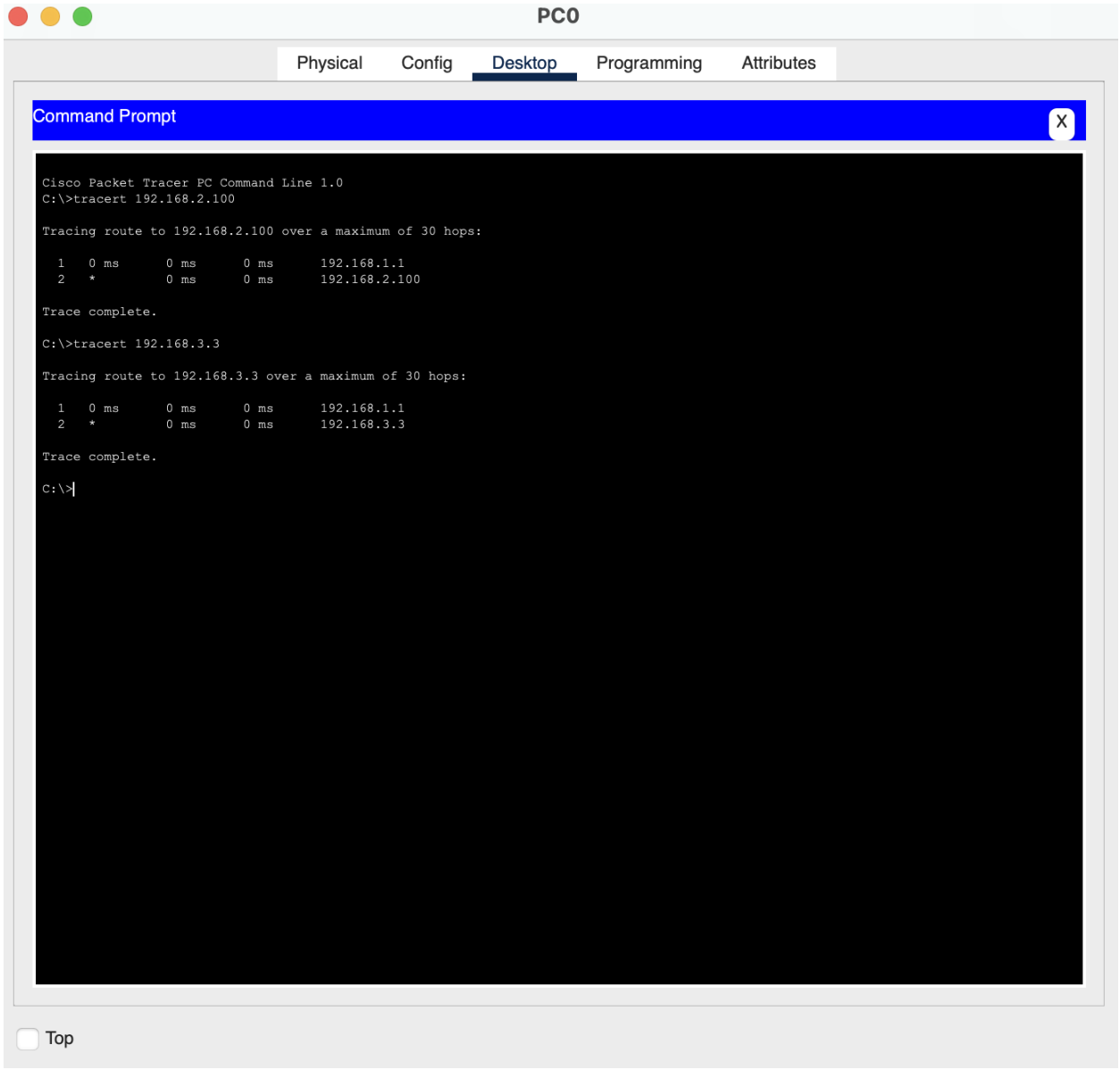
Jimmy Hernandez
May 4, 2022
Cs 4471-01

Lab 11 - Access-Control List

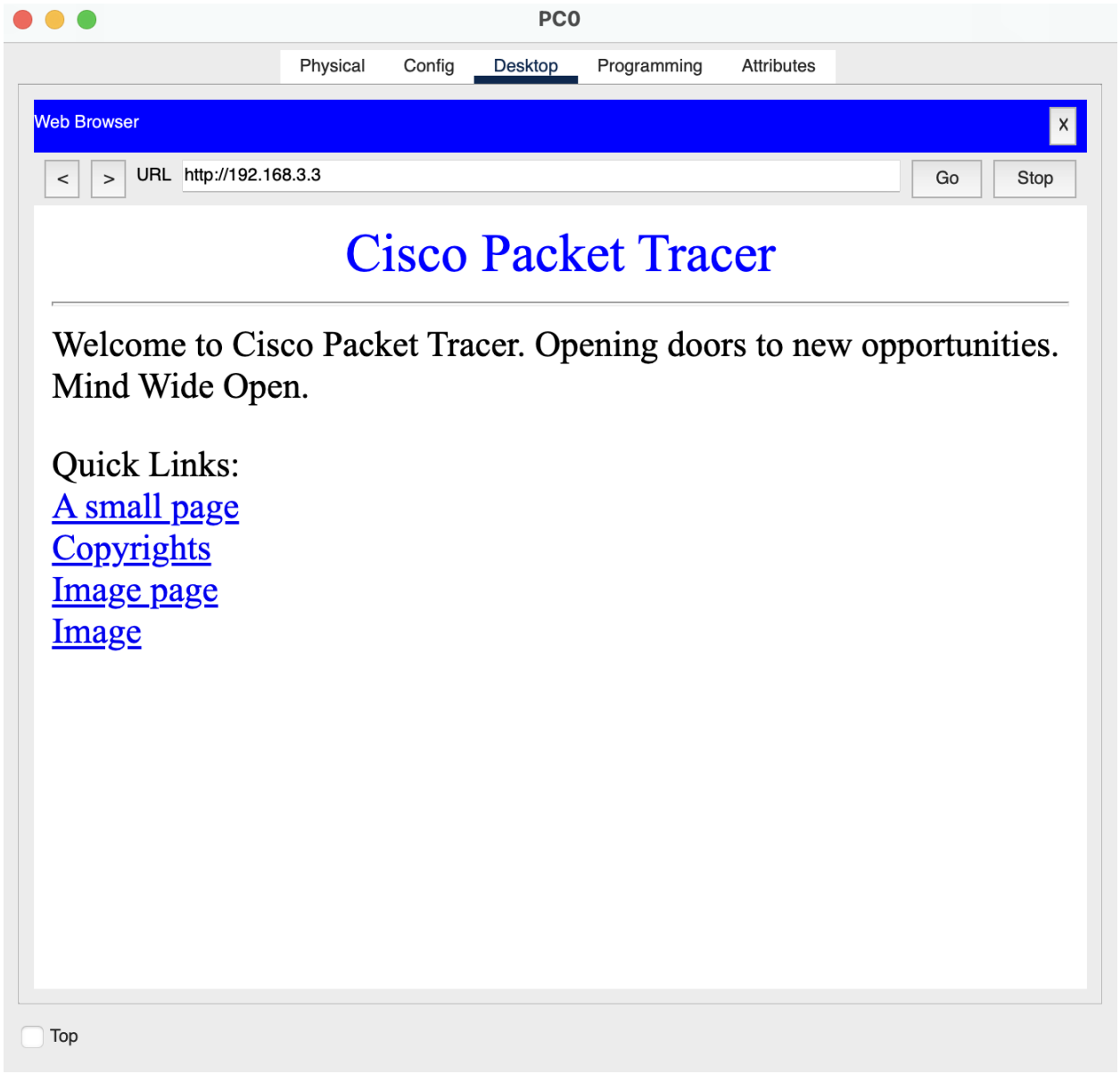
1. (1pt) Submit a screenshot of the Cisco Packet Tracer network diagram created. Make sure that the port labels are shown (Options > Preferences > Show Port Labels).



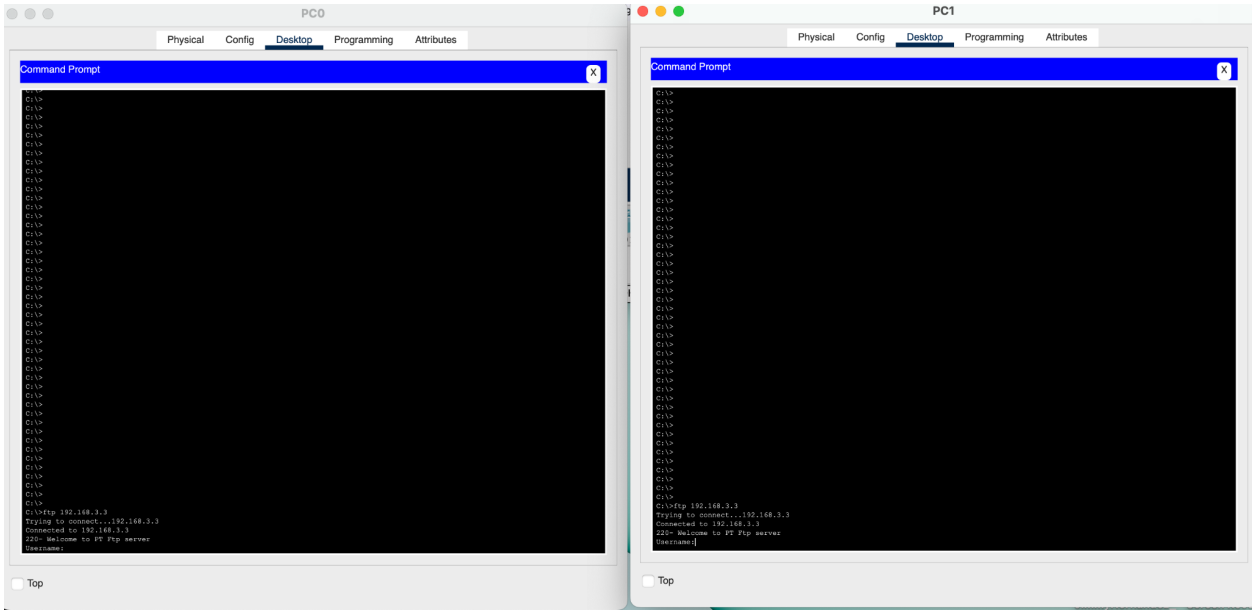
2. (1pt) a. Submit screenshots showing that from command prompt of computer PC0, you can: (a) successfully traceroute to computer PC1, and (b) successfully traceroute to server Server0.



3. (1pt) On Server0, verify that HTTP service are both turned on. Submit screenshots showing that web browsers on PC0 and PC1 can download a web page from Server0


PC0
Physical
Config
Desktop
Programming
Attributes
Web Browser
X
<
>
URL
http://192.168.3.3
Go
Stop
Cisco Packet Tracer
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
Quick Links:
A small page
Copyrights
Image page
Image
Top

4. (1pt) On Server), verify that FTP service is turned on. Submit screenshots showing that from command prompt on PC0 and PC1, an FTP connection can be established to Server0.



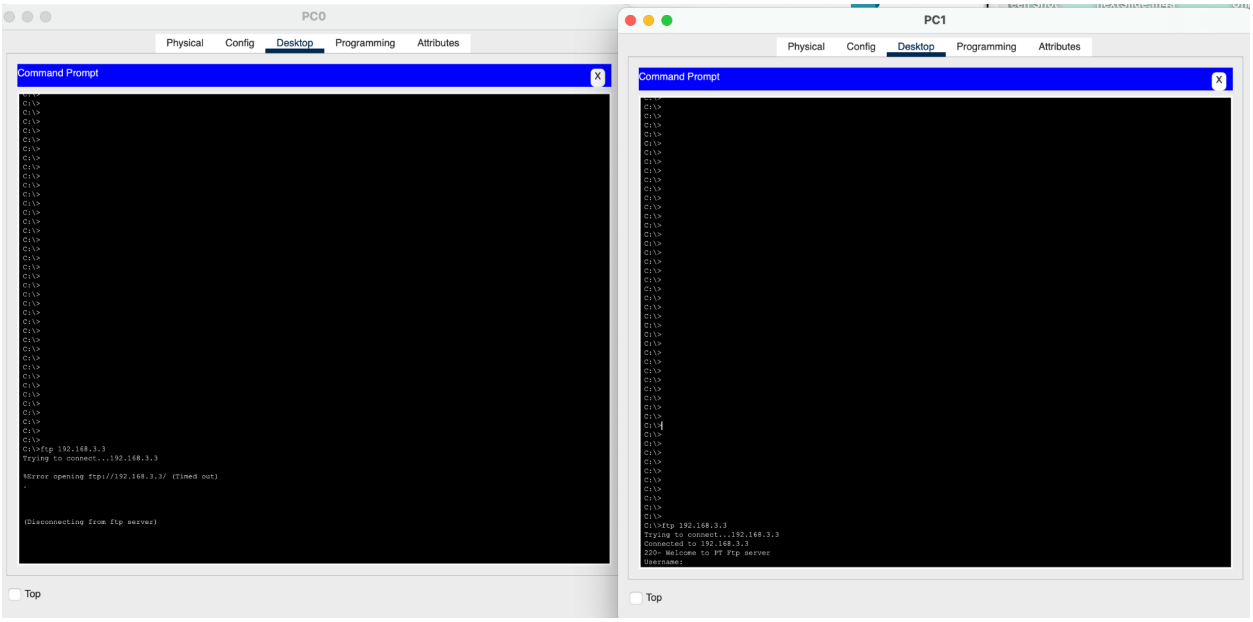
5. Configure an access control list (ACL) on Gig0/2 network interface of Router0 such that (i) all hosts in subnets 192.168.1.0/24 and 192.168.2.0/24 can access the web service on Server0, (ii) only host with IP address 192.168.2.100 (PC1) is allowed to access FTP service on Server0, and (iii) no other computer can access Server0 . Apply this ACL to Gig0/2.

a. (3pts) Submit a screenshot of “show access-list”

b. (0.5 pt) In which direction (inbound or outgoing) was this ACL applied?
The direction is going outgoing is applied to this acl
c. (0.5 pt) What was the Cisco command you used to apply the ACL to interface Gig0/2 ?

Conf t (to enter the configuration)
Int Gig0/2 (to specifically work on the interface)
Ip access-group 101 out

6. (1pt) Submit a screenshot showing what happens when PC0 attempts to ftp to ftp server (ACL should block ftp traffic).



Left image shows that PC0 cant access the FTP anymore while PC1 can still access the FTP.

7. (1pt) From command prompt of PC0, can you still ping Server0? If not, what ACL rule must be added to existing ACL in order that PC0 can ping Server0 ? Submit a screenshot of "show access-list".

The command entered to still be able to ping server0 from pc0 is:
access-list 101 permit ip any 192.168.3.0 0.0.0.255
access-list 101 deny icmp any 192.168.3.0 0.0.0.255 echo

```
Router#
Router#show access-list
Extended IP access list 101
    20 permit tcp host 192.168.2.100 host 192.168.3.3 eq ftp (3 match(es))
    30 permit ip any 192.168.3.0 0.0.0.255 (4 match(es))
    40 deny icmp any 192.168.3.0 0.0.0.255 echo
Standard IP access list 1
    10 permit 192.168.1.0 0.0.0.255
    20 permit 192.168.2.0 0.0.0.255

Router#
```