Computer Networks (CS303)

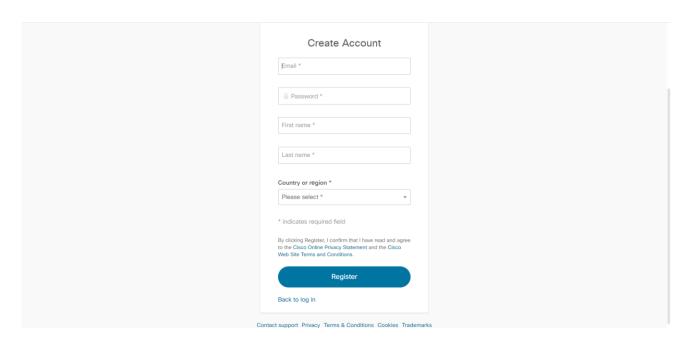
Assignment - 3

U19CS012

Getting Familiar with Cisco Packet Tracer

A.) Installation Steps

1. Sign Up [https://id.cisco.com/signin/register]



2. Account Activation on Email

Please click the button to activate your account.

Activate Account
Expires in 7 days.

After activating your account, you can:

Login with your email and password.

Manage your Cisco account profile and request access to Cisco applications and services.

Become a customer by associating a contract number or bill-to ID to your account or order services directly through our global network of certified partners.

Become a partner by associating your account with a partner company or register your company as a partner.

Access supply chain tools and resources.

Contact support for help accessing your account.



To activate your account, please click the button below:



TIPS

- This link is valid for a limited time. If this link is expired, please go to https://www.netacad.com and click on Log In/Resend Activation Email to get a new link.
- · If you do not see Activate account button above, please copy the following link and paste into your browser:

https://www.netacad.com/portal/saml_login

- If you already have an account, go to https://www.netacad.com and click Log In to access your courses.
- Your NetAcad ID is 1028329390. Keep this handy in case you ever need support

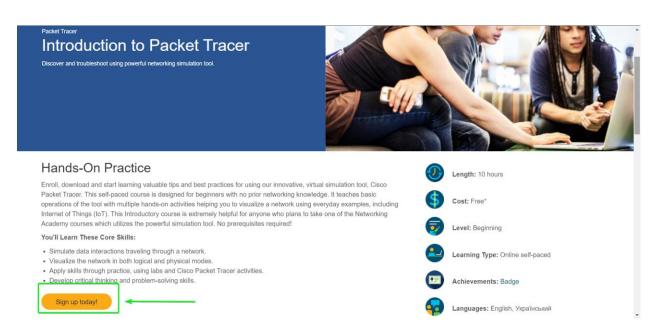
Whether you've always been passionate about technology or just discovered IT, there has never been a better time to get started.

Sincerely,

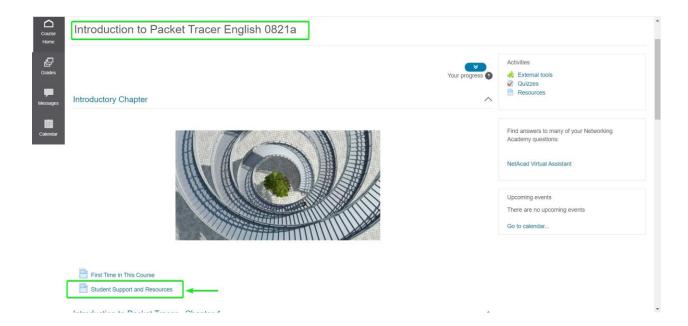
Cisco Networking Academy Team

https://www.netacad.com

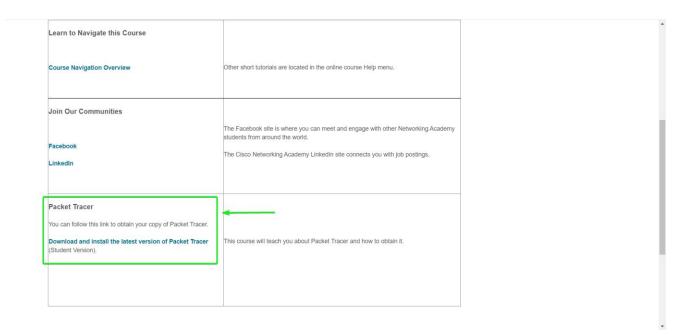
3. Enroll in this Course [https://www.netacad.com/courses/packet-tracer/introduction-packet-tracer]



4. Go to this Course "Introduction to Packet Tracer English 0821a" & Click on "Student Support and Resources Page"



5. Third Row ["Packet Tracer"] in Table will have the Installation Link of the Software

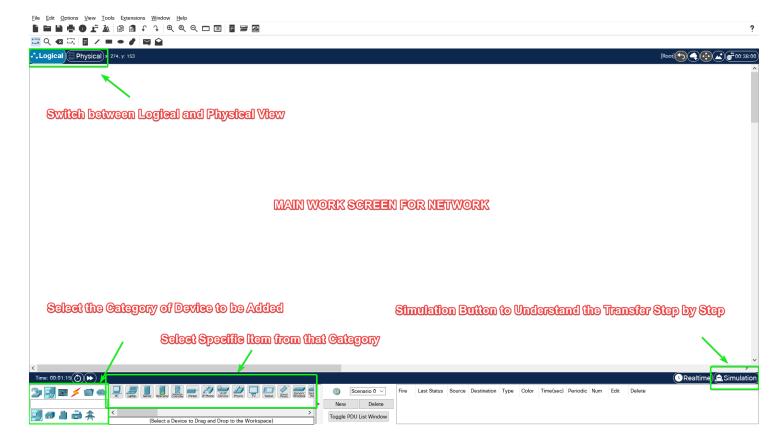


6. Wait Patiently for it to Download [200 MB File]



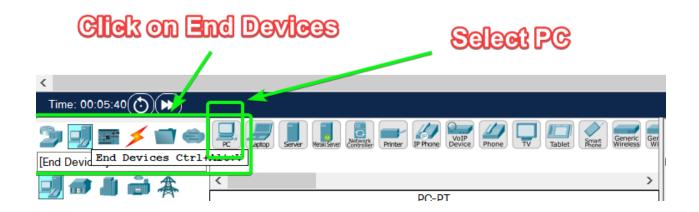
B.) Understanding the Interface

Packet Tracer is a tool that allows you to simulate real networks.



C.) Create Simple Network of 2 Computers

Step 1



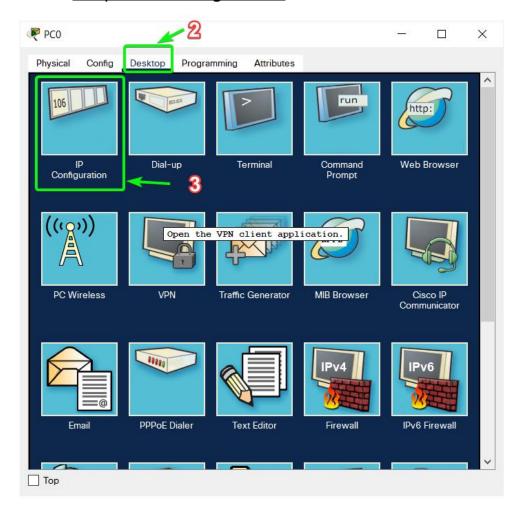
Step 2



Place 2 Computers



Step 3: IP Configuration





Step 4: Set IPv4 Address

PC0						_		\times	
Physical	Config	Desktop	Programming	Attributes					
IP Configu	ration							Х	
Interface FastEthernet0 IP Configuration									
○ DHCP			Static	_					
IPv4 Add	IPv4 Address								
Subnet N	Mask	•							
Default (Default Gateway			0.0.0.0					
DNS Server			0.0.0.0						
IPv6 Con	nfiguration		8	Set it to 10.10.10.1					
Automatic			Static	Static					
IPv6 Add	IPv6 Address								
	Link Local Address			FE80::204:9AFF:FE42:E5C5					
	Default Gateway							_	
DNS Server									
802.1X									
Use 802.1X Security									
Authenti		MD5						~	
Username									
Password									
∐ lop	Тор								

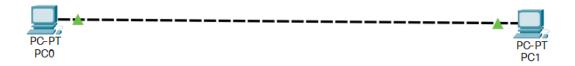
[Do Similar Step of Setting IPv4 Address for Other Devices as well]

<u>Step 5: Select Connecting Wire</u>



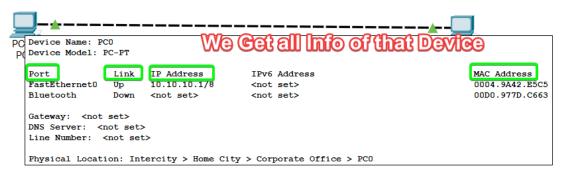
Step 6: Establish Connection

Click on One Node and then Select second Node



Step 7: Hover Over and Check if Link is Up

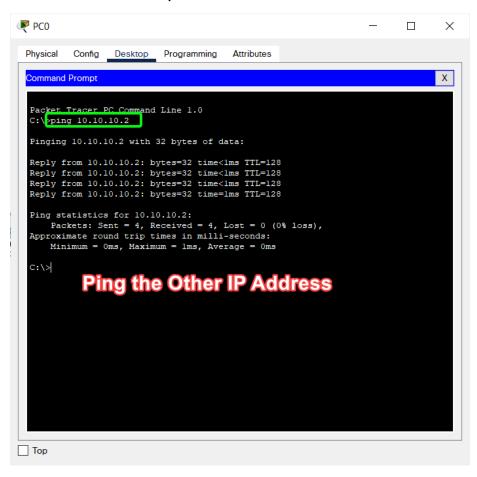
Hover Over



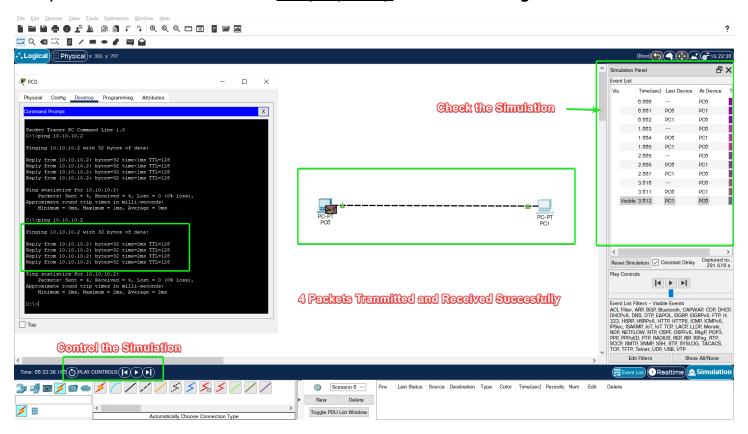
Step 8: Ping the Other Computer



Step 9: Write Command

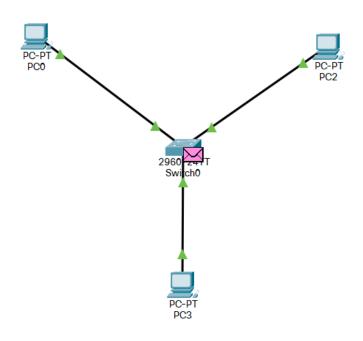


Step 10: You can also see the Step By Step Transfer Using the Simulation Button



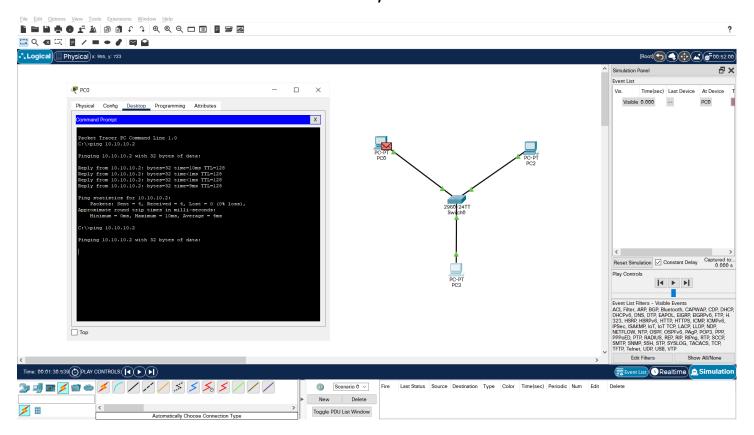
D.) Create Simple Network of 3 Computers & Switch

Step 1: Draw the Below Shown Network

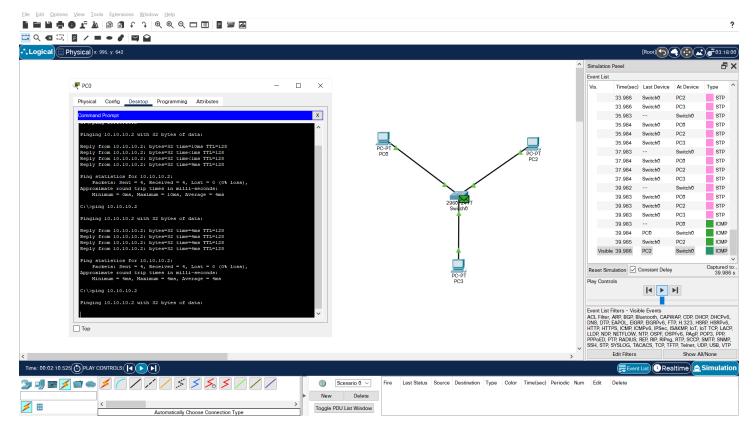


Step 2: Send Ping Request to another Node [Simulation]

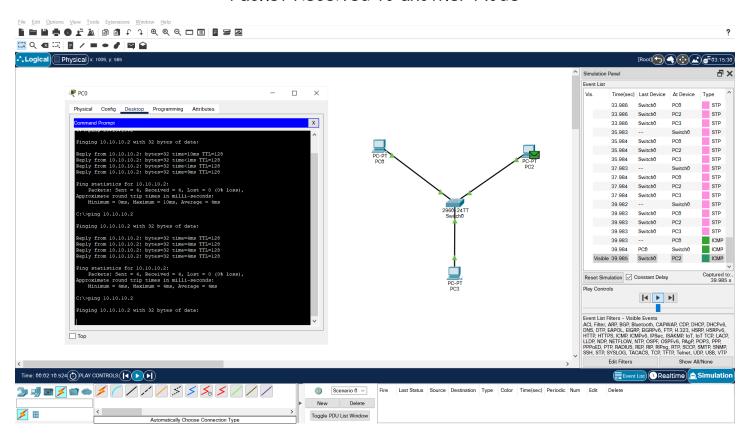
Packet ready to be sent



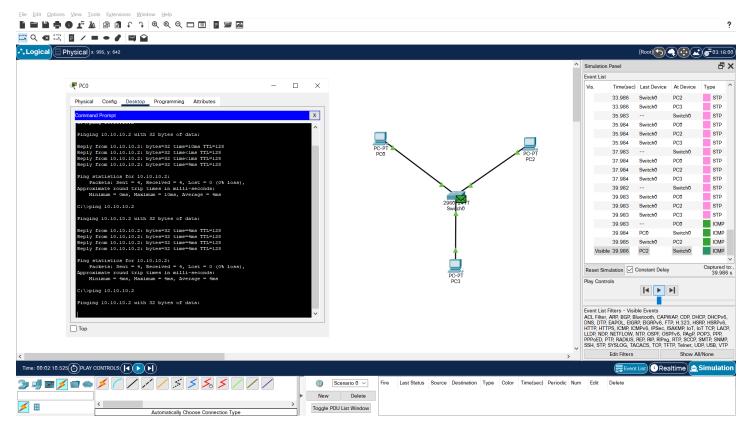
Packet Sent via Router



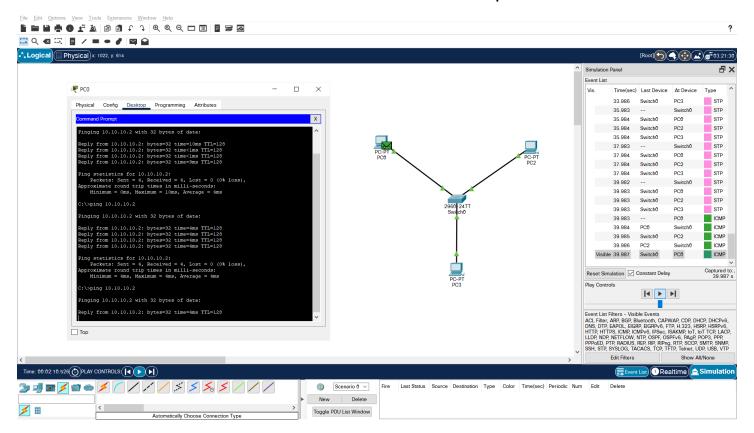
Packet Received to another Node



Packet Send from another Node to Switch

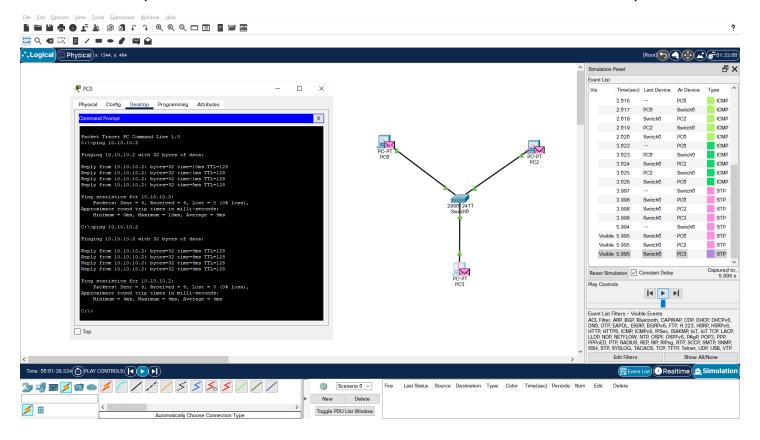


Packet Received Successfully



[Process Repeats for Remaining 3 Packets]

Step 3: All 4 Packets Transferred and Received Successfully!



In this Practical Class, we Installed <u>Cisco Packet Tracer</u> and Got Familiar with its Interface.

We also Built Two Simple Networks and Tested it's Functionality using Simulator.

SUBMITTED BY:

U19CS012

BHAGYA VINOD RANA