

EECS 3020: Introduction to Computer Networks

Assignment 1

Description:

The assignment 1 purposed to let the student prepare the Cisco Packet Tracer software in his/her personal computer.

Requirement:

- Microsoft Windows 7, 8.1, 10
- Ubuntu 14.04 LTS or higher

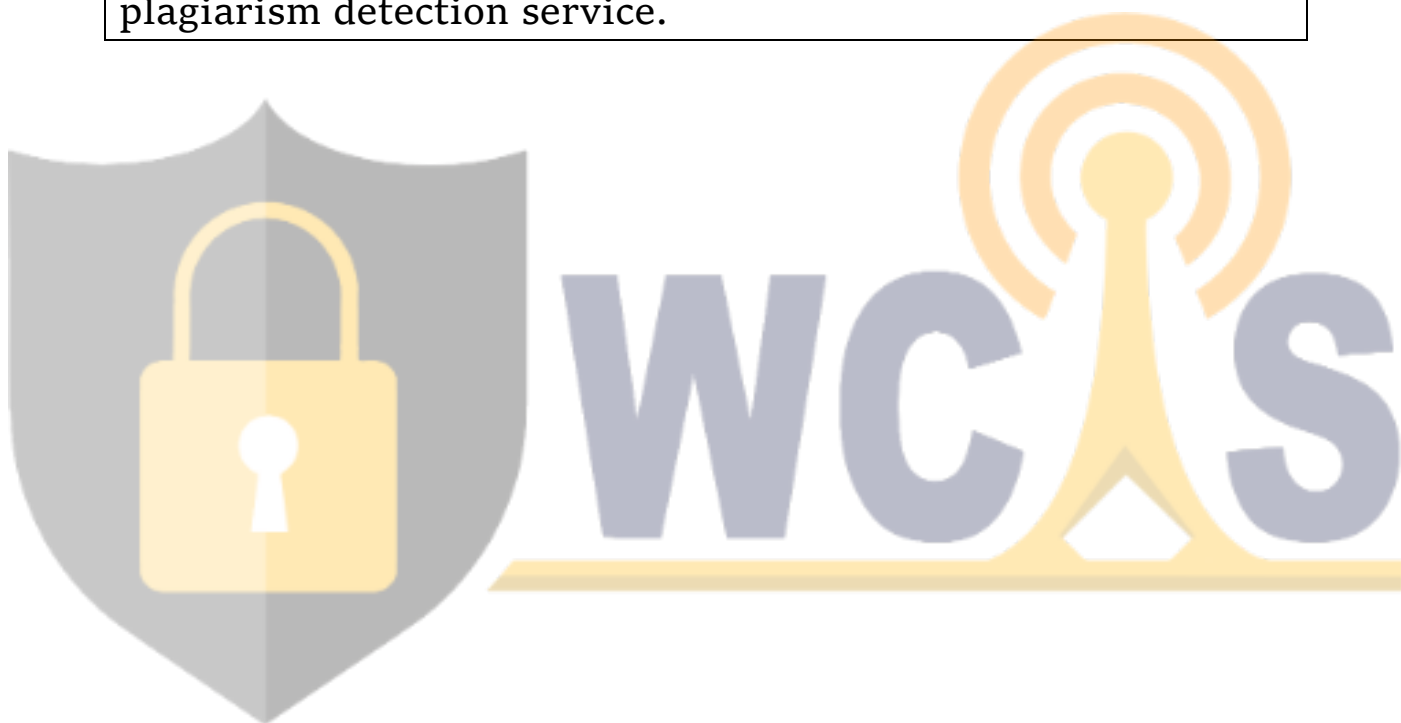
Deadline: Friday 27 March, 2020 (Midnight)

Important Information:

- [50%] Report
 - Part I: [25%] Student is required to **submit the report with 2 required picture** by follow the instruction of this assignment.
 - Part II: [25%] Student is required to **answer the following questions into the report.**
- [45%] Student is required to **submit the simulation file (*.pkt) with required network equipment and note** by follow the instruction of this assignment.
- [5%] Student is required to **compress his/her simulation file and report together** and submit to the ilms system by the deadline (no extended).

READ THIS FIRST

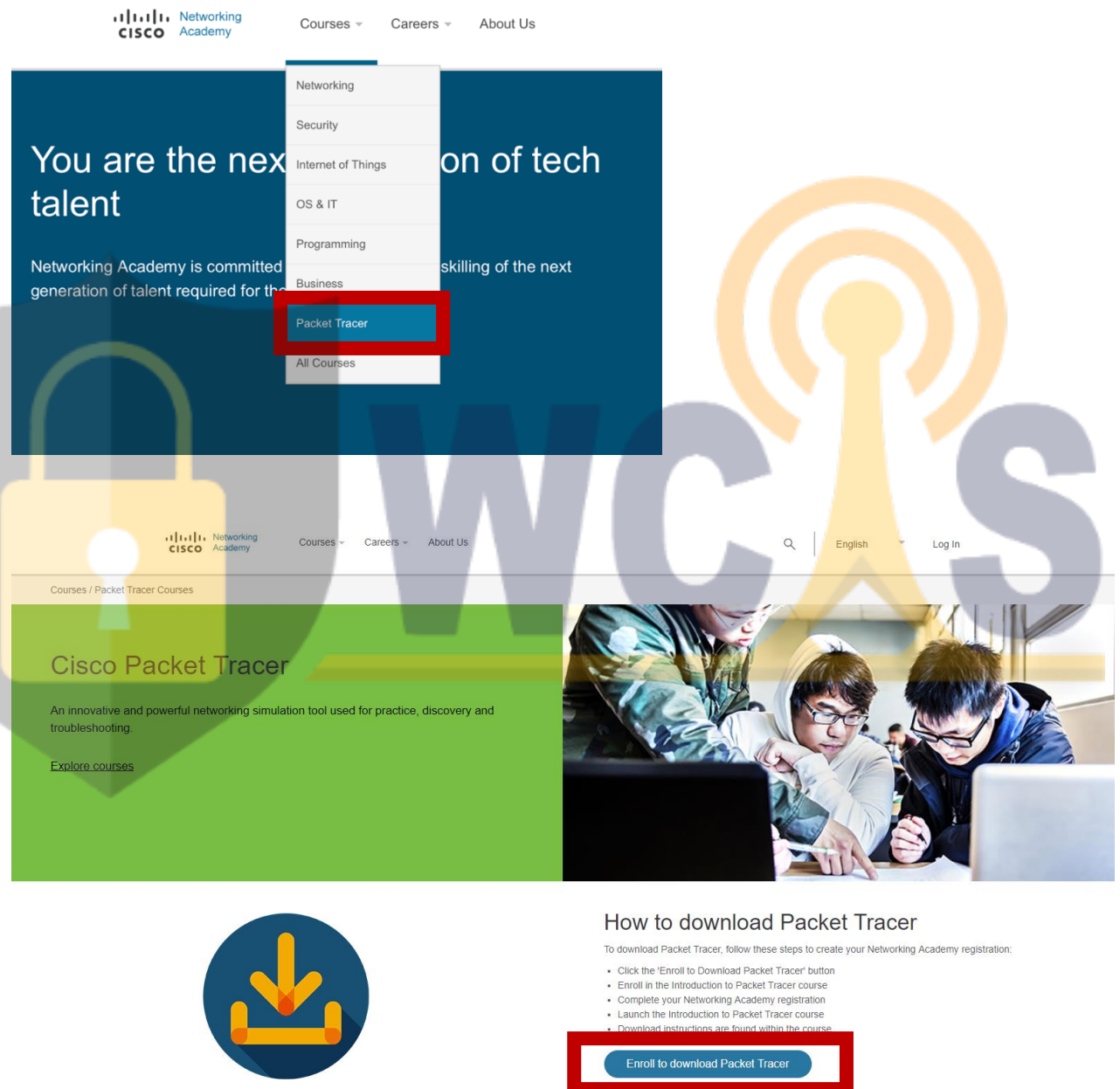
Plagiarism, paraphrasing and downloading large amounts of information from external sources, will not be tolerated and will be dealt with severely. Although you should make full use of any source material, which would normally be an occasional sentence and/or paragraph (referenced) followed by your own critical analysis/evaluation, you will receive no marks for work that is not your own. Your work may be subject to checks for originality which can include use of an electronic plagiarism detection service.



PART I

Instruction:

1. Apply the course on line at <https://www.netacad.com/>



The image shows a screenshot of the Cisco Networking Academy website. At the top, the Cisco logo and 'Networking Academy' text are visible. A navigation menu is open, showing options like Networking, Security, Internet of Things, OS & IT, Programming, Business, Packet Tracer (highlighted with a red box), and All Courses. Below this, a banner reads 'You are the next generation of tech talent' and 'Networking Academy is committed to the development of the next generation of talent required for the future of technology'. The main content area features a green background with the text 'Cisco Packet Tracer' and 'An innovative and powerful networking simulation tool used for practice, discovery and troubleshooting.' A link 'Explore courses' is present. To the right, there is a photo of three students working on laptops. Below the main content, a section titled 'How to download Packet Tracer' provides instructions: 'To download Packet Tracer, follow these steps to create your Networking Academy registration:'. The instructions are: 'Click the "Enroll to Download Packet Tracer" button', 'Enroll in the Introduction to Packet Tracer course', 'Complete your Networking Academy registration', 'Launch the Introduction to Packet Tracer course', and 'Download instructions are found within the course'. A button labeled 'Enroll to download Packet Tracer' is highlighted with a red box.

How to download Packet Tracer

To download Packet Tracer, follow these steps to create your Networking Academy registration:

- Click the "Enroll to Download Packet Tracer" button
- Enroll in the Introduction to Packet Tracer course
- Complete your Networking Academy registration
- Launch the Introduction to Packet Tracer course
- Download instructions are found within the course

Enroll to download Packet Tracer

Packet Tracer

Introduction to Packet Tracer

Discover and troubleshoot using powerful networking simulation tool.



Enroll, download and start learning valuable tips and best practices for using Cisco's innovative simulation tool, Packet Tracer. This self-paced course is designed for beginners with no prior networking knowledge. It teaches basic operations of the tool with multiple hands-on activities helping you to visualize a network using everyday examples, including Internet of Things (IoT). Introductory course is extremely helpful for anyone who plans to take one of the Networking Academy courses in tool.

[Sign up today!](#)



Length: 10 hours



Cost: Free*



Level: Beginning



Learning Type: Online self-paced



Languages: English

*Self-paced classes at NetAcad.com are free. Cost for instructor-led classes is determined by the institution.



2. Fill in the information belong to your personal information



Sign Up For Introduction to Packet Tracer 0618

We're excited to have you join us. Before you get started, we need to know a few things about you.

English



First Name :

Last Name :

Email Address :

☐ Please send me important emails from Cisco Networking Academy

Create a Password:

Your password must contain at least 8 characters. It must also include at least 1 lowercase (abc), 1 uppercase (ABC), and 1 number (123).

Country: Select One



State/Province: Select One



Gender: Select One



What is your practical experience in IT or networking?



Birth Date: DD/MM/YYYY

Date of birth is used to help confirm your identity if you request support

By clicking Create Account, you agree to our [Terms](#) and that you have read our [Privacy Statement](#) , including our [Cookie Policy](#).

Create Account


Building the skills employers demand since 1997. 7.8 Million students, 170 countries

Cisco Corporate Social Responsibility programs accelerate global problem solving through our technology and expertise to positively impact people, society, and the planet. Cisco Networking Academy helps 1 million people each year develop the skills they need to excel in a job market driven by networked connections. [Read more about Cisco Networking Academy's mission and global impact](#)

3. Capture the confirmation email and include the screenshot to your report

● Get Started with Cisco Networking Academy

Yahoo/Inbox ★

 ● **Networking Academy Team** <noreply@netacad.com>
To:

 4 Jun at 11:54 ★

 Cisco Networking Academy

Dear ,

Welcome to Cisco Networking Academy! Your NetAcad ID is 52271779. If you already have a password, go to www.netacad.com/login to access your courses.

To activate your account, please confirm your email address and select a password:

[Confirm email address >>](#)

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
www.netacad.com

Cisco.com | [Privacy Statement](#) | [Trademarks](#) | [Support](#)

This is an automatically generated email. If you did not sign up for NetAcad or for assistance please visit our community on [Facebook](#).



4. Download the Cisco Packet Tracer from Resources>>Download Packet Tracer

My NetAcad

I'm Learning

Course Catalog

Cisco Certifications and Vouchers

Find an Academy

Download Packet Tracer

All Resources

Career Resources

Career Webinars

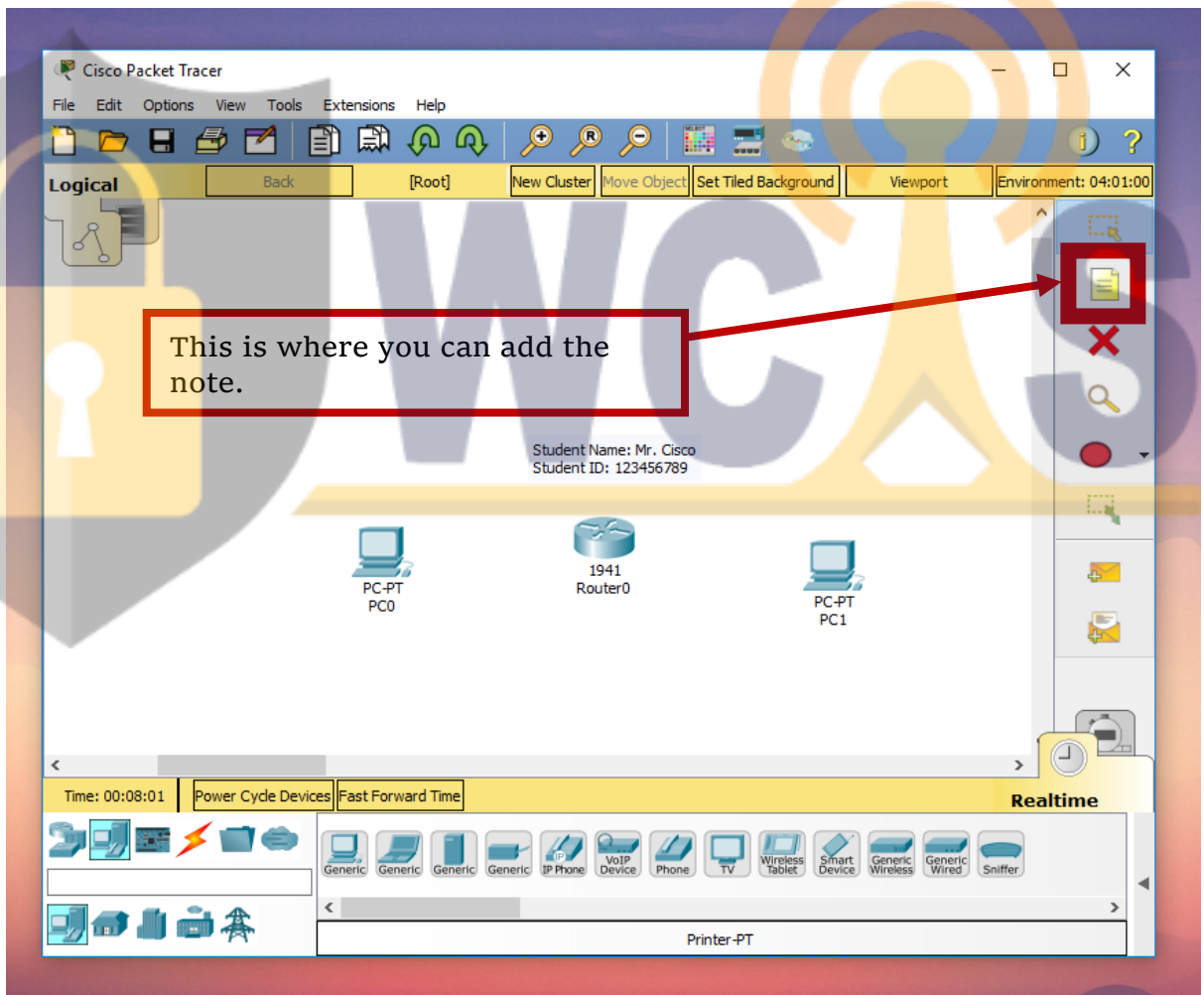
5. Install Packet Tracer to your personal computer



6. Create the sample network topology (2PC, 1Router) and add note as same as the example figure below

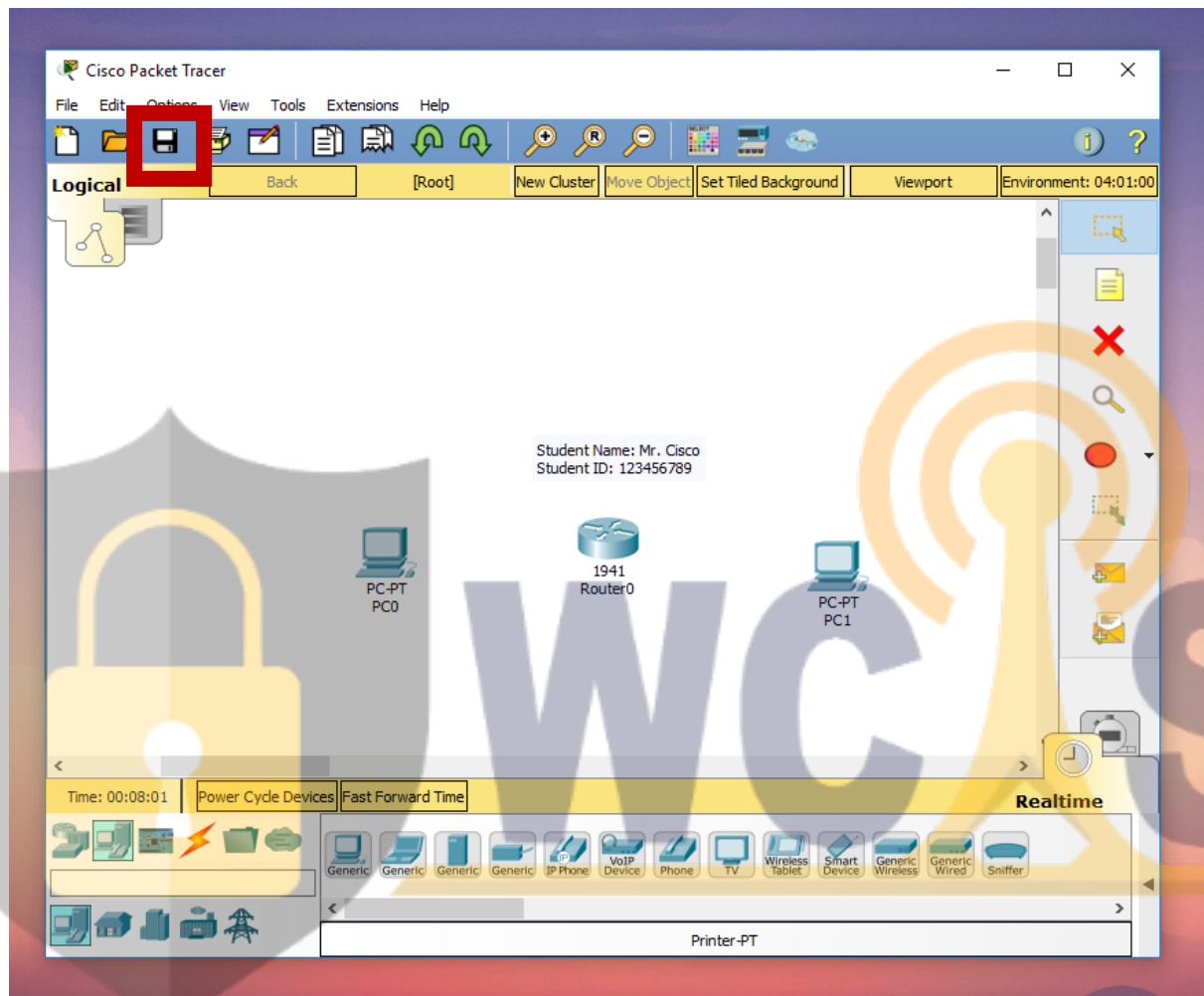
Note:

- *You don't need to connect the network. Just add device and note to show me that you can use the Cisco Packet Tracer.*
- **You must change the note by using your personal information.**



7. Capture the screen (same with figure above) and include the screenshot to your report

8. Save your network simulation file (*.pkt) and include with your report by compress the file with your report (.rar, .zip, .7zip)



PART II--[25%]

- Please create at least two full pages report
 - **Font:** **Arial [English]/
DengXian [Chinese]**
 - **Size: 14**
- **Questions I [12.5%]:** How can we link the COVID-19 problem with a Computer Networks problem?
- **Questions II [12.5%]:** What are the techniques (in computer networks) and networking protocols that we can apply for the online learning during the COVID-19 pandemic?

