Working Environment

Advanced Computer Networking

Spring 2019

Objectives

Getting ready

- Download and install Packet Tracer
- Enable a simple network topology
- Configure a few end devices
- Test connectivity among the systems
- Revise some networking conceps

Installing required software

1. Packet Tracer
   - Download the last available version of Packet Tracer from https://www.netacad.com/courses/packet-tracer
   - Install it on your OS and explore the available options

Initial configuration

Three system connected to each other through a generic Switch.

1. PC0 with the IP address 192.168.1.1/24

2. Laptop0 with the IP address 192.168.1.2/24

3. PC1 with the IP address 192.168.2.3/24

4
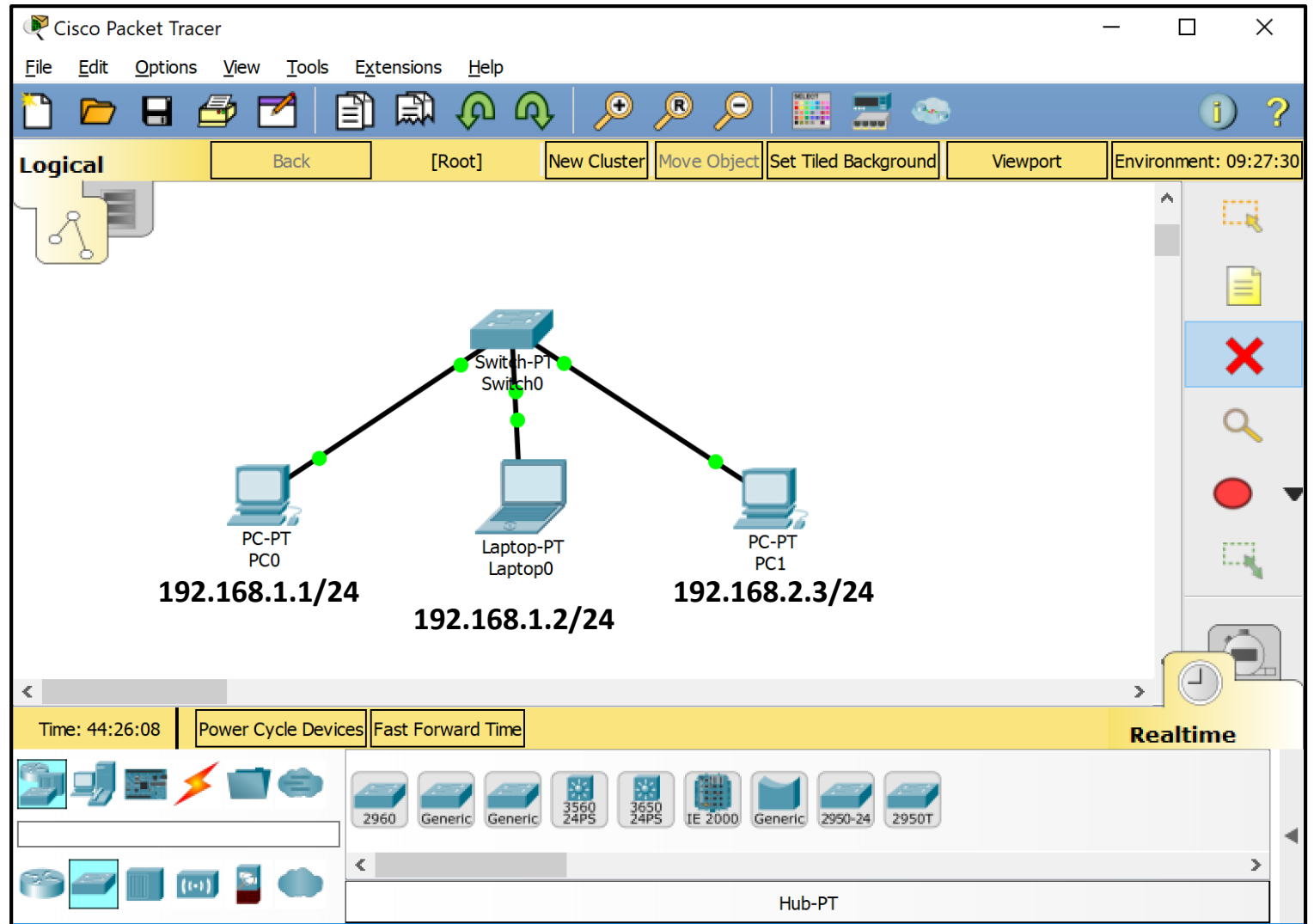
Lab # 1 – Initial steps

1. Show that PC0 can reach Laptop0 (screenshot)
2. Show that Laptop0 can reach PC0 (screenshot)
3. Show the status of trying to reach PC1 from PC0, and explain reasons of the status.
4. What does the /24 value at the end of the IP addresses (i.e. 192.168.1.1/24) indicate?
5. Why do we need to specify a mask address?
6. The IP addresses assigned to the systems (PC0, Laptop0 and PC1) are private or public? How did you identify them?
7. Briefly explain the 7 layer of the OSI model
8. What does ICMP mean and how it works?
9. How the ARP protocol is used by the systems?
10. Can you identify the vendor of this MAC address: d4-81-d7-00-00-43? Explain the steps you follow.

Due date: 2/2/2019 Hrs: 22:59

Submit your work on Canvas

2019SP INFOTC 3001 Bazan Antequera - Topics in Information Technology › Assignments › Lab # 1 - Initial steps

SP2019

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Lab # 1 - Initial steps

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Related Items

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9.How the ARP protocol is used by the systems?

10.Can you identify the vendor of this MAC address: d4-81-d7-00-00-43? Explain the steps you follow.

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Plan for the week

Activity	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Course / assignment material release			*First Release*			*Second Release*	
What you should do in this period?	Work on the tasks from the *Second Release*			Work on the tasks from the *First Release*			

The course content will be mostly posted two times per week, on Wednesdays and Saturdays.