

# Computer Lab 04

## Recap

Networked Information Systems (COMP2410/ COMP6340), 2021 Semester 1

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**Summary:** Please use this lab to ask a lot of questions and make sure you understand all of the concepts that we have covered so far

**How to create a Linux Virtual Machine (VM)?**

- a) What are the steps to remove any existing VMs?
- b) What do you need to create a Linux VM?
- c) Write down all steps to create a VM, with screenshots.

**How to create two Linux Virtual Machines (VMs)?**

- a) What are the steps to remove any existing VMs?
- b) What are the requirements to create a Linux VM?
- c) Write down all steps to create two VMs, with screenshots.
- d) How do you connect first VM with second VM?

**How to examine HTTP request-response message using Wireshark? – Consider a URL from your computer browser.**

- a) Identify following Wireshark outputs from the HTTP request.
  - i) User-Agent
  - ii) Host
  - iii) What is the length of HTTP request (including the lower layers)?
  - iv) What is the size of TCP payload for the HTTP request?
- b) Identify following Wireshark outputs from the HTTP response.
  - i) Server
  - ii) What is the length of HTTP response (including the lower layers)?
  - iii) What is the size of TCP payload for the HTTP response?

**How to share folders/files in Linux?**

- a) What are the requirements to share folders/files in Linux machine?
- b) What is the difference between guest and host in terms of VM?
- c) Write down all steps to complete whole sharing process. You should separate the procedures in terms of guest and host.

**How to set a VPN in Linux?**

- a) What are the requirements to set a VPN in Linux machine?
- b) Why are VPNs useful?
- c) What are the procedures to create a VPN? Describe with screenshots.
- d) How can you browse the remote network via VPN? Describe with screenshots.

**How to install Kleopatra and create Open PGP key pair using Kleopatra?**

- a) What is Kleopatra?
- b) What are the requirements to install Kleopatra in Linux machine?
- c) How to create Open PGP key pair using Kleopatra? Describe with screenshots.