Lab 01

Installing VMWare Player

And

Creating Two VM's

IST643

Professor

Rieks

BACKGROUND: STRUCTURE OF IST643 LABS…. PLEASE READ!

IST643 will have a series of labs due throughout the semester. Some labs will be due 7 days after they are assigned while others (longer, more complex) will be due 14 days after they are assigned.

For some labs, specific step-by-step instructions will be given while in other labs, a general overview of what you need to complete will be assigned and you will need to use your research skills on how to complete the lab.

If you complete the lab successfully, you will earn 10/10 on the lab. If you fail to complete some of the steps in the lab, you will earn less than 10/10 points.

INSTALLING VMWARE WORKSTATION PLAYER AND CREATE TWO VM's

Goal

The goal of this lab is to

- Have students download and install VMware Workstation player
- Have students configure the bios of the lab computers as to turn on the CPU virtualization settings in the bios
- Have students create Ubuntu and Windows server vm's
- Understand what virtualization is and how it has become a standard use technology in most all IT organizations.

Deliverable

All labs will be either submitted on Blackboard within 7 days.

Let's get started!!!

Enable virtualization support in the computer's BIOS — Read then do

- You will need to first enable the two CPU / processor virtualization check boxes on your computer. Each computer is different. As such, you'll need to determine how exactly to do this on your own.
    - a These features are named Virtualization Technology(VTx) and Virtualization Technology for Direct I/O (VTd)
        - o If there is an options that says something similar to "Multi-processor and Hyperthreading", enable these as well.
- Save changes, save, and exit

NOTE: if you need help doing this, please ask a classmate or Professor Rieks

Steps To Follow: Installing VMWare Workstation Player.

Using the following link, download VMWare Workstation Player from the following link.
https://www.vmware.com/products/workstation-player/workstation-player-evaluation.html

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Watch the following video https://www.youtube.com/watch?v=B1tCRwkFmnA
This YouTube will provide you a lot of great information and basically show you how to complete this lab. NOTE: It's not 100% correct or accurate but it is very close!

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You can not successfully install VMWare Workstation Player with Professor Rieks' help. He needs to start the installation for you using ADMINISTRATOR equivalent credentials.

NOTE: if you are using a MAC, you'll need to download VMWare Fusion from here https://www.vmware.com/products/fusion/fusion-evaluation.html Alternatively you may use parallels or something similar to run both Ubuntu and windows server on your MAC. It's your choice!

Download Ubuntu desktop from here:

- https://ubuntu.com/download/desktop

Download windows 2019 server here.

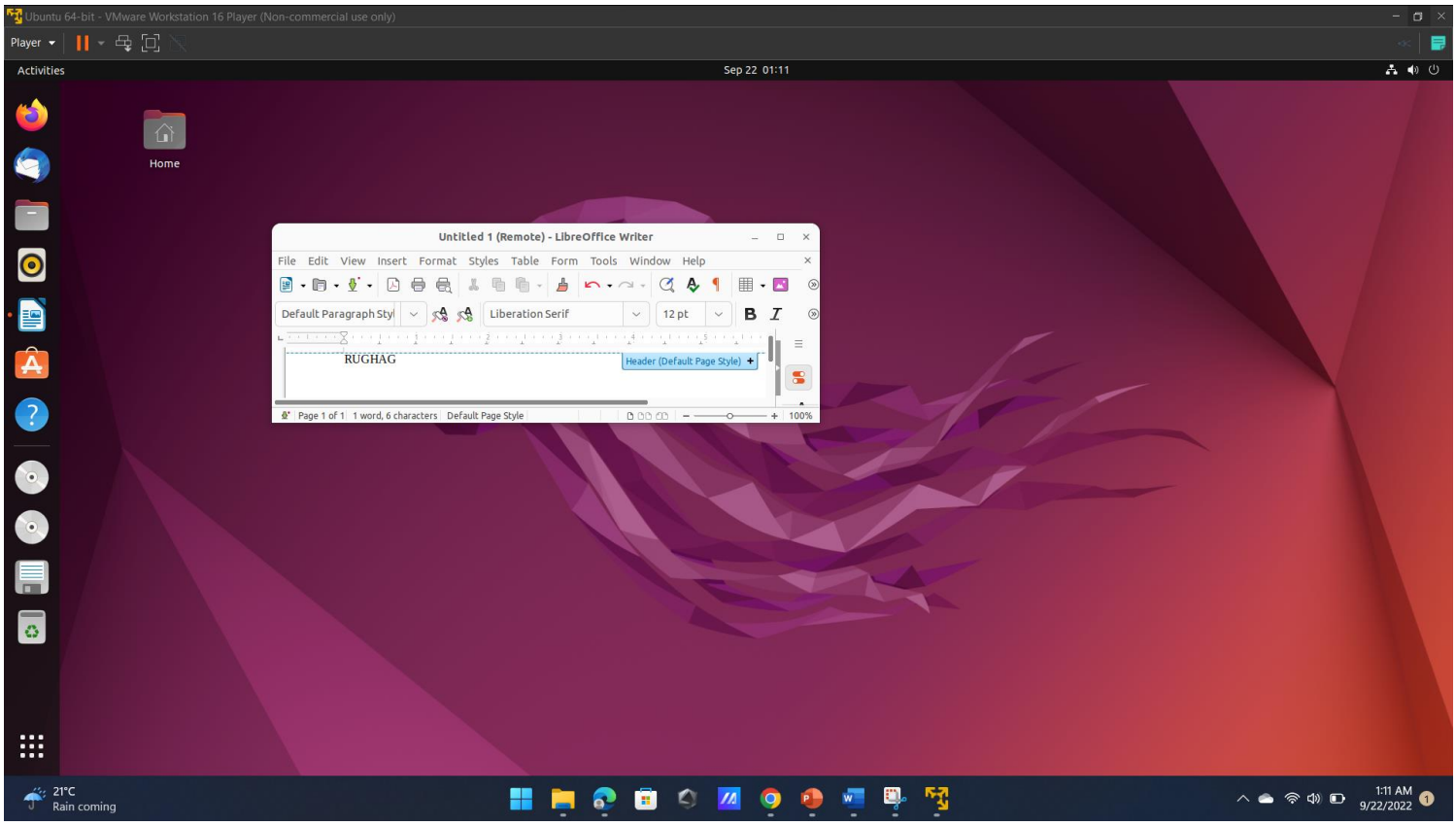
- https://www.microsoft.com/en-us/evalcenter/download-windows-server-2019

Follow the instructions found in the video. Once you have Ubuntu Linux installed, login using the password of you selected during the installation (the password you selected during installation).

Handing in the lab.

To turn in this weeks lab, you need to submit two screen captures of your UBUNTU and Windows server vm's running on your laptop. Copy /paste these screen captures into this document below. Submit this document on BB. If you need additional space, create a new page at the end of this lab.

Place a screen capture of Ubuntu running on your laptop below.



If you haven't done so already, download a Windows server 2019 trial OS from the internet. Create a windows server virtual machine using this ISO. Unlike Ubuntu, Professor Rieks did not provide you a link on how to install 2019 server. Search YouTube on how to do this, if you need assistance.

Keep both VM's for possible future labs and to show Professor Rieks your work, if he asks.

<u>Place a screen capture of your Windows server running on your laptop below.</u>