**Lab 2 Homework (85 points)**

**Name: Fabian LeFevre**

1) What is Docker and what is its purpose (6 points)?

**Docker is a virtualization tool thet replicates a workstation environment into a container with given specifications found in a docker file.**

**Its purpose is to simplify application shipping and deployment. Making the container what is to act as the work environment and what is to be deployed, tested, or shipped.**

**(**[**https://opensource.com/resources/what-docker**](https://opensource.com/resources/what-docker)**)**

2) Assume you are installing Windows Server 2012. Provide two reasons for selecting one version over another. For example, **why** would you want to install the Foundation edition over the Datacenter edition? Why would you want Standard over Essentials? (10 points)

**I would choose Standard because it is cheaper than Datacenter and comes with all the same features as Datacenter.**

3) You needed to install VMware Tools on your VMs. What is the purpose of VMware Tools? (4 points)

**VMware Tools made it so the remote connection we had to the machine better translated our actions to the VM. It made it so our mouse movement would be translated to the VM when prior the VM couldn’t pick up our mouse as a registered device for it to utilize and understand.**

4) Remember back to your Linux days. Assume that you want to skip loading the GUI and boot directly to a command line interface in Ubuntu. Which runlevel should you set Ubuntu to boot to? (5 points)

**Would set the Ubuntu boot runlevel to be runlevel 3.**

5) Look over some of the available roles that Windows Server 2012 provides. Select **two** and **describe** their purpose. (10 points)

**Active Directory Domain Services – Will store info about object on the network and will make this info available to users/network admins. Uses domain controllers to give users access to permitted resources anywhere on the network by utilizing single sign-on.**

**MultiPoint Services – Makes it so multiple users can simultaneously share a computer.**

6) What is the purpose of the swap and root partitions in Linux? (10 points)

**The root partition acts as the boot directory of the Linux system.**

**The swap partition acts as additional memory for storing infrequently used memory in RAM or for storing memory when RAM is not available. This will also act as the partition used for when the system is told to hibernate.**

7) What is **ufw**? Why did we need to **allow 22**? (10 points)

**Ufw is a firewall configuration tool that is default for Ubuntu releases.**

**We needed to allow 22 because this will allow SSH connections to and from the VM.**

8) Add the following information from your VMs (30 points)

1. Your **computer name** after you changed it in Windows Server
2. Your **IP address** for Windows Server
3. Your **IP address** for Ubuntu

**1 – LeFevre**

**2 – 141.210.25.50**

**3 – 141.210.25.214**