Windows 10 Network Installation and Driver Setup

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Laboratory Assignment: **Describe the key features and the differences between the versions of Windows 10 that are offered. Include the Home, Professional and IoT**

IoT is used primarily for appliances and devices that are connected to the internet, Home is used primarily for the general public and everyday life, Professional is geared toward people in the Corporate world.

**Describe the differences between the retail, OEM and volume license versions of windows**

The retail version is activated using a product key, the OEM version is activated using a BIOS key, and the volume license is activated using a MAK license or a KMS.

**What types of files systems are recognized by windows 10 and their limitations?**

FAT32, exFAT, and NTFS are recognized by windows 10. A FAT32 drive cannot be over 4GB, an exFAT has no limits, and a NTFS also has no limits.

**Describe three different techniques that can be employed to install the windows 10 operating system.**

You can get a CD with a product key, download it to a USB drive and install or transfer the files from one computer to the next.

**What method did you use to install windows 10 on the local computer and what steps did you take to prepare for the installation?**

I setup a partition in my USB drive and copied WPE10x64 onto it. I then logged on within the terminal double checked the directories to make sure all necessary files were present. Finally, I booted from the flash drive to install windows 10.

**What is meant by executing a Clean Install when installing the operating system?**

It is an installation that erases everything that came before it.

**What program was used by the operating system during installation to manage the hard drive partitions? Was the hard drive control recognized?**

The hard drive controlled was recognized and the Hard Drive Disk Management Program was used to manage the partitions.

**Describe the following network environments; Public Network, Private Network, and Home Network.**

The private network contains only the computer, the home network automatically contains everything that has access to the same router, and the public network is things like 4G, ISPs, etc.

**What users were created during the installation process? What group are they a member of and their status?**

An admin user was created as well as a guest.

**What is the product key and why is it so important? Can you install windows 10 without it?**

The product is the only way to activate the retail version of windows and protects against counterfeit/ illegal versions. You can install different versions of windows that do not need a product key but usually need a verification of some kind.

**What steps did you take to access the server and how did you download the needed drivers?**

After I connected to the internet I found whichever drivers I needed to install and clicked the “automatic search and install” button.

**What is the purpose of device manager and how did you access it?**

Device manager is used to monitor, modify, and control all the devices within or connected to your pc. I accessed it by searching for it with Cortana.

**What does it mean when a driver is certified or not certified by Microsoft?**

It means that the driver has been checked by Microsoft and safe to use.

**What is the windows update utility and how did you access it?**

The windows update utility is a tool to manager which updates and OEM products are installed. I accessed it by searching for it with Cortana.

**What is windows activation? What system condition would create a situation that would require reactivation? What would be the outcome of not operating an activate system?**

The windows activation is a way to let Microsoft know that you are a valid user of their product. A reinstall would require reinstallation. Windows would either shutdown or function at a bare minimum.

**Windows 10 supports different methods to create or allow access for a user on the system. Describe three types/ methods to either create or setup a user on Windows 10.**

Upon installation, a user is created and given admin access, the admin can create users and lastly a guest can create a user with minimal access.

**Describe the following Video driver settings; resolution, color depth, refresh frequency rate and native screen resolution setting.**

Resolution is the amount pixels on the screen, color depth is the level of contrast and brightness, refresh frequency rate is the frequency at which the screen refresh, native screen resolution is the optimal resolution for the screen.

**Compare GMT to UTC time specification**

There is no time difference between the 2 but GMT is a time zone while UTC is not.

**How did you access the Action Center? What are some of the features found in the Action Center?**

By clicking the button on the taskbar. The action center contains aspects of troubleshooting, maintenance, security, and data recovery.

**Describe two ways one can use to access the Settings Control Center.**

By search for it using Cortana or type in control panel to the Command Prompt.