**Assignment 2: Windows Server Installation and Installation Types**

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# **Section 1: Document Introduction**

This assignment teaches us how to emulate Windows Server 2022 using VMware. This gives us the ability to modify the operating system and make changes without affecting the root system. From reading this document, the reader will be walked through my complete installation of Windows Server 2022 using VMware, including screenshots and a Speccy report. We will be modifying our Ip address to a static Ip address, as well as well as adding a secondary drive, and changing our workgroup and username.

# **Section 2: Creating a New Virtual Machine**

In this section, we will be creating a new virtual machine in VMware using a typical install. We will install the operating system in the next section. We will have a 60gb disk drive, paired with 8 GB of ram, four processors, and one additional 10GB NVME drive. We will choose our Windows Server 2022 ISO image file for the CD/DVD drive. We will also edit our VM description to list key details about our new virtual machine.

**New Virtual Machine Screenshot**

A screenshot of a computer

Description automatically generated

In the Screenshot above, this is the generic VMware setup. We have added one new disk drive that is 10 GB. We also have setup 8GBs or ram, a 60 GB disk drive, and a two-processor double core CPU setup. We have setup our Windows Server 2022 iso to be used for the CD/DVD drive, and we have added our operating system, creation date, hostname, username and password to the virtual machine description.

# **Section 3: Installing Windows Server 2022**

In this section, we will be installing a operating system onto our new virtual machine we created in the last section. We will set the language preferences to English. We will install windows Server 2022 using our Microsoft Azure key. We will setup our username and password, along with renaming our new workstation and changing our workgroup name.

**Microsoft Server Operating System Setup**

A screenshot of a computer

Description automatically generated

In the Screenshot above, we are installing Windows Server 2022. We set our keyboard to US and language to English. We chose Drive 0 for our installation of windows. We set our username to AHendren, and our password set to Passw0rd. We made sure to set our username and password to the naming conventions. We selected no for all other windows diagnostic options.

# **Section 4: Additional Changes and Adding Software**

In this section, we will be installing VMware tools, notepad ++ and Speccy. VMware tools are a collection of tools crated by VMware. VM tools gives virtual machines better performance and makes your virtual machine a little easier to manage. Notepad ++ is a text editor with many unique and useful features. Speccy is a software that tells us information about our system and our hardware.

**Installing VMware tools**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

In the screenshot above, we have installed VMware tools. We then opened edge explorer and downloaded the latest version of Speccy and Notepad ++.

# **Section 5: Creating a Gold Copy**

In this section, we will be creating a “gold copy” of our virtual machine. A gold copy is a backup of a system in an ideal state. Gold copy’s can be used to move the virtual machine to new systems, or as a protected backup. We will also generate our Speccy report in this section and save it as Assign2\_AH.txt.

**Creating a gold copy**

A screenshot of a computer

Description automatically generated

In the screenshot above, we have made our gold copy and saved it to a separate location. We opened the gold copy folders properties.

**Post A1 snapshot**

A screenshot of a computer

Description automatically generated

In the screenshot above, we have generated our Posta1 screenshot.

# **Section 6: Giving Our Server a Static IP Address**

In this section, we will be giving our Windows Server a static IP Address. Static IP Address’s provide a device with a constant network identification, a static IP address also improves network reliability.

A computer screen shot of a computer screen

Description automatically generated

In the screenshot above we have given our server a static IP address. We created our static IP address with a new IP address, a subnet mask and default gateway. We did this by going into our ethernet adapter settings, from there we opened the ethernet properties and found the IPV4 protocol. Once we are in the IPV4 properties we can input our information for our static IP.