

ITHFA0-33 Project

QUESTION 1



Introduction

In this project, we will be creating two virtual machines using Hyper-V on our host machine

To accomplish this project, we will need the following:

- Windows 10 IOS Image
- Windows Server 2016
- Hyper-V Manager

Installing Hyper-V Manager

- 1. First, in the search bar type the following "Windows Feature on or off"
- 2. Once the windows feature on or off window appears locate Hyper-V and tick
- 3. Finally click okay

*Note you will be prompted to restart the computer so that the installation takes full affect

Creating VM1 (Naming)

Now that the installation has taken full affect you can now open your Hyper-V manger by typing in the search bar for Hyper-V

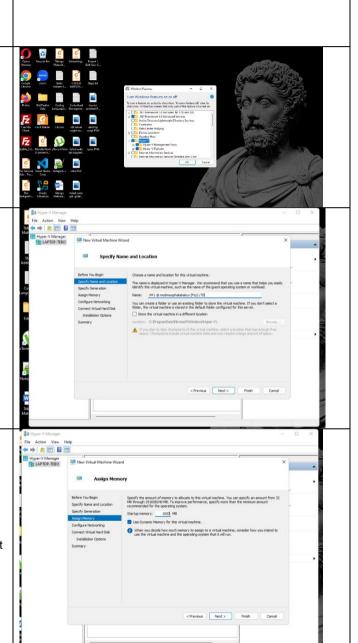
Once in the application right click your on > and select drop right-facing arrow "new" then "virtual machine"

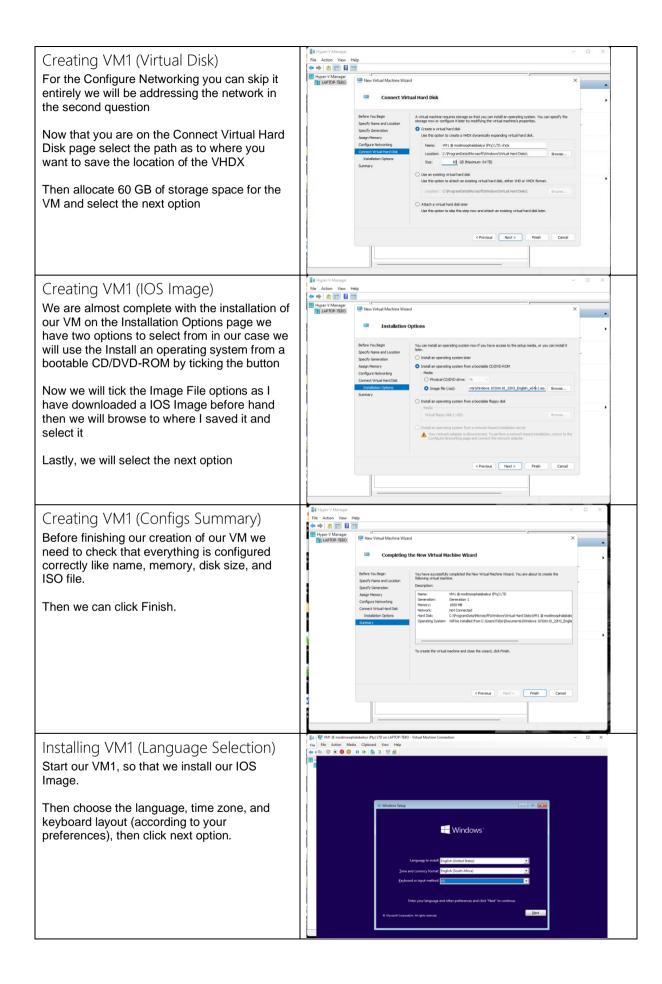
It will open a window New Virtual Machine Wizard on the Before You Begin page select next on the Specify Name and Location give your VM a name then select the next option again

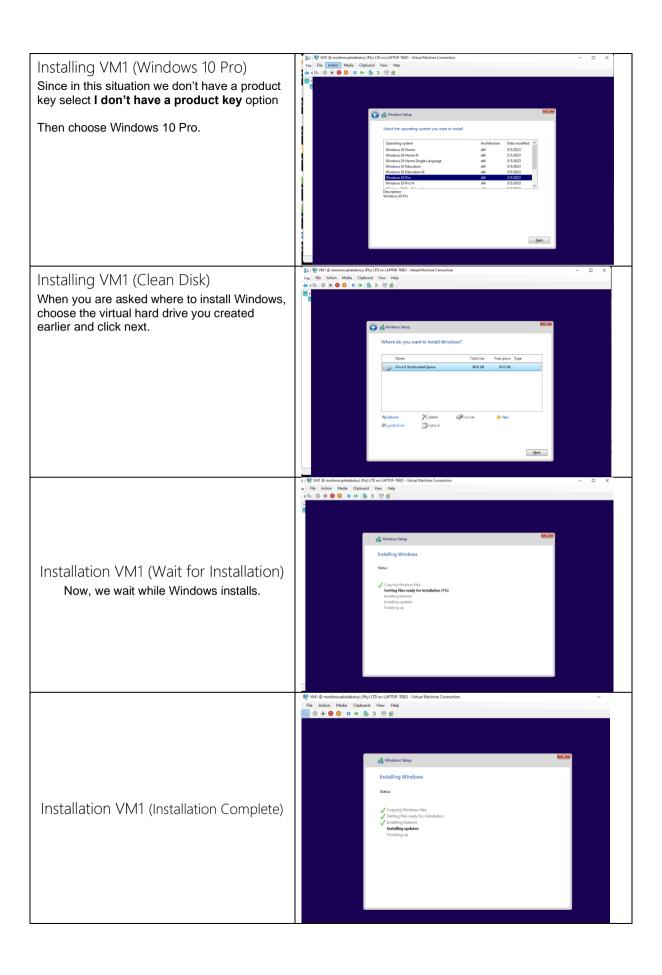
Creating VM1 (Assigning Memory)

On the Specify Generation select either Generation 1 or Generation 2 (depending on specification/required task) then select next

Now that you are on the Assign Memory page allocate your VM 1 1GB and turn on the Dynamic Memory by ticking the box and select the next option





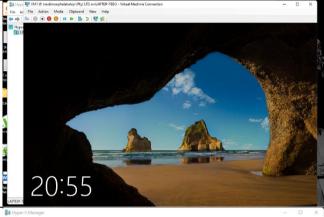




- *Selecting Language & Keyboard Layout Again: Confirm your language and region.
- *Creating an Offline Account: Choose to set up without signing into Microsoft (offline).
- *Naming the User: Give your virtual machine a username.
- *Adding User Password: Add a password to keep it secure.



VM1 (Setup Complete)

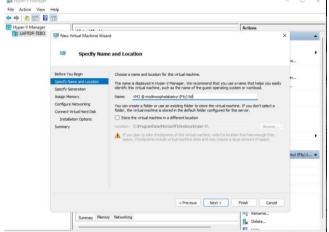


Creating VM2 (Naming)

To create VM2 we will follow the same steps as the 1st VM

Once in the application right click your on

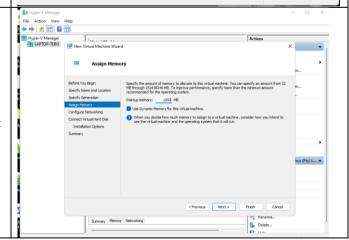
It will open a window New Virtual Machine Wizard on the Before You Begin page select next on the Specify Name and Location give your VM a name then select the next option again

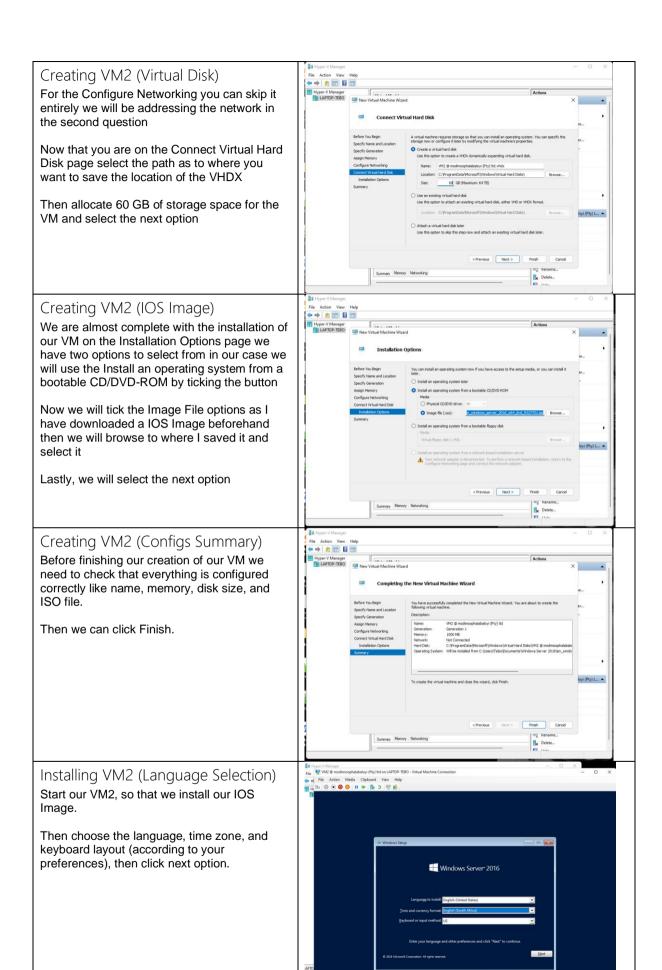


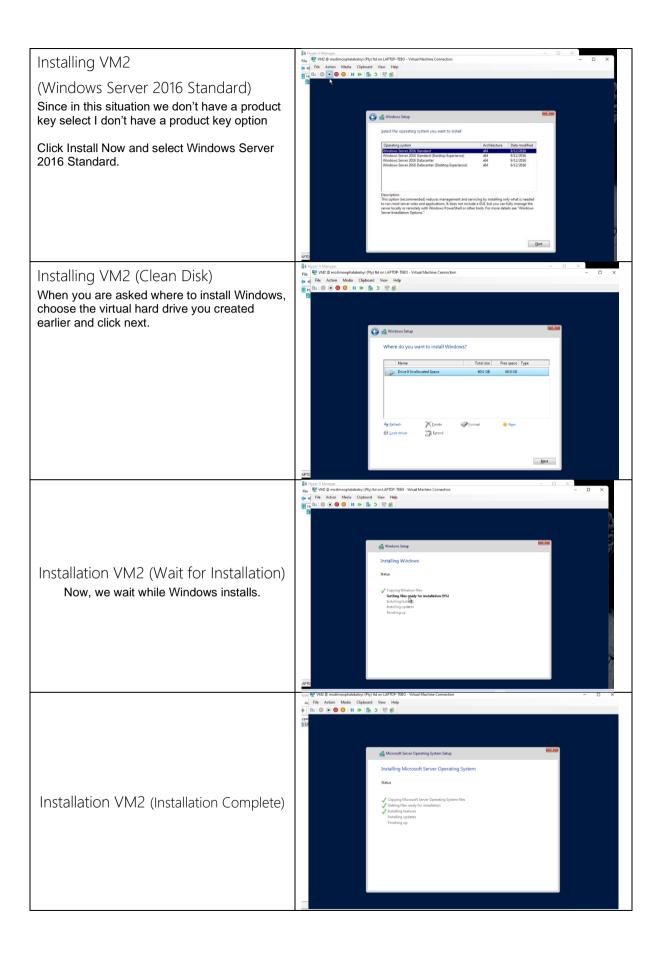
Creating VM2 (Assigning Memory)

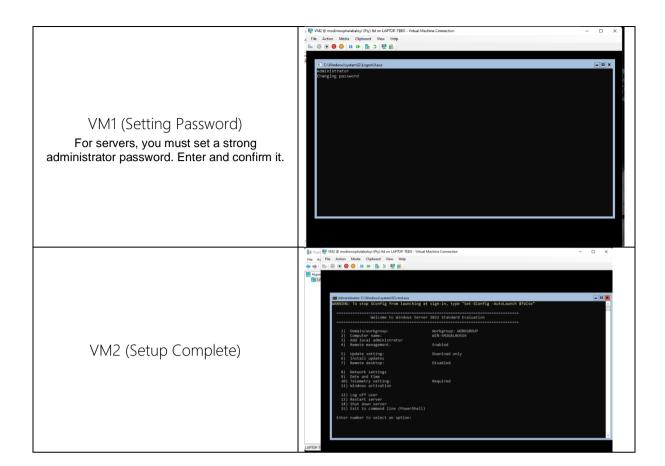
On the Specify Generation select either Generation 1 or Generation 2 (depending on specification/required task) then select next

Now that you are on the Assign Memory page allocate your VM 2 1GB and turn on the Dynamic Memory by ticking the box and select the next option









Glossary

Hyper-V:

A tool in Windows that allows you to create and run virtual computers (virtual machines) inside your physical computer.

Virtual Machine (VM):

A "computer within your computer" that behaves just like a real one but runs in a window on your desktop.

ISO Image:

A file that contains everything from an installation DVD or USB drive. It's used to install an operating system on a virtual machine.

Virtual Disk (VHDX):

A file that acts like a hard drive for your virtual machine. This is where the VM stores its files, programs, and operating system.

Dynamic Memory:

A feature that allows a virtual machine to use more or less memory (RAM) as it needs, so it doesn't waste resources.

Offline Account:

A user account created without signing in with an internet-based account (like a Microsoft account). This is just a local username and password for the VM.

Windows Server 2016 Standard:

An operating system designed for managing networks, users, and services—used mostly in businesses and IT environments.

Windows 10 Pro:

A version of Windows 10 commonly used on personal and work computers, with extra features for professionals.

Administrator Password:

The main password used to secure your virtual machine and give you control over all settings and files.