|  |  |  |
| --- | --- | --- |
| 01.21.2021 |  | Status Report |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Snapshot of Project or Task 1: Enabling Hyper-V and creating a VM** | | |
| Activity | Percent Complete | Issues  Configuration, Testing, Validation, Troubleshooting |
| Enable Hyper-V | 100 % | Configuration: Ensure Hyper-V Platform Windows Platform feature is turned on |
| Create Virtual Machine | 100% | Troubleshooting: Had to go into BIOS to enable virtualization before the VM would operate correctly |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

|  |
| --- |
| **Status Summary:** Discuss how you addressed configuration, testing, validation and troubleshooting |
| The task was to create a virtual machine (VM) on our personal computer. The first step for me was to download Windows 10 Pro and install it on my computer because I had Window 10 Home edition and that does not allow for the required Hyper-V application to run which is a requirement to create a VM. The next step was to turn on the Hyper-V feature and ensure to expand the Hyper-V folder and check all applicable boxes. There was one box that was grayed out and did not let me check mark it and that was for the Hyper-V Hypervisor folder. I thought I would be fine without, so I continued with the process. The other feature you need to ensure that is turned on is the Windows Hypervisor Platform. Now before we moved on to creating a VM we had to first download the .ISO file we wanted to use as the OS for our VM. The .ISO was Windows Server 2016 Datacenter EVAL. Now, using Hyper-V Manager, we created a new Generation 2 VM, assigned memory of 2048 MB, connected to the default switch, gave the virtual hard disk 35 GB of space, selected the OS we mentioned early for install, and finished the installation of the VM. Now, it created the VM however, I was not able to start the VM because I got an error that stated, “the application encountered an error while attempting to change the state of VM1.” Under the list of possible errors, one stated that I needed to verify that the hardware was enabled for virtualization and that Hypervision was enabled. Remember, I was not able to check the Hypervision folder in Hyper -V because it was grayed out. So, I went into the BIOS and navigated my way to system configuration where the virtualization was, and I had to enable it because it was disabled. This change in the hardware does required a complete power down for it be enabled on the computer. Once this change was enabled, I was now able to check the Hypervision box under the Hyper-V folder and then the VM started its boot process. Now, once I clicked start, the VM began to boot and I got the screen on the VM saying “press any key to boot from CD or DVD” I pressed any key and after cycling through the startup I got another error. This error stated “virtual machine boot summary” with a list of possible errors and an option to restart. I was not able to restart. I deleted the VM and started again from the beginning thinking I had done something wrong and I still got the same error. I google for what the issue could be and one answer was that during the setup of the VM I should check Generation (GEN) 1 VM but I know I didn’t need to because I meet the system requirement by having a 64 bit computer for GEN2 VM and GEN 1 is for 32 bit. I then again started over to create the VM and when I got to the starting of the VM during its startup to where it says to “press any key to boot from CD or DVD” I continuously hit “ctr alt delete” under the actions tab of the VM screen and then the screen displayed a status bar of it loading up which it did not do before, so I knew I had impacted some change. There was no logical reason why I decided to hit “ctr alt delete” while on the start up portion but it did the trick and the VM functions normally. There is a flaw somewhere with that issue and I wonder if anybody else had the same issue and what their solution was. |
| **Submitted By:** |
| Bo Irving |