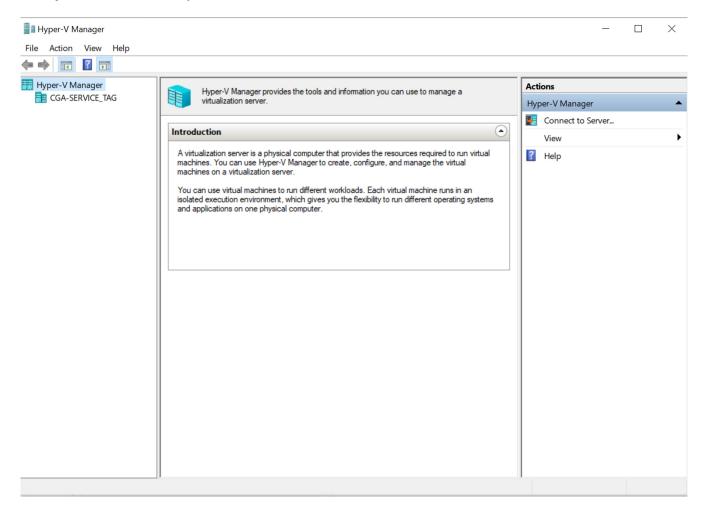
Saturday, August 26, 2023

10:27 PM

1/c Ryan Younes 26 August 2023 7330 Computer and Network Security

1. Detail your choice of hypervisor and include a screenshot of the management interface running on your machine [1 point]

I decided to try Hyper-V to see just how well a native Windows program can actually function as compared to other options of install. The graphical user interface looks old, with a Windows XP feel to it. It is limiting just because not all boxes seem to use it, however it is native to Windows and I just never knew that you could make VMs for free.



2. Include a screenshot of the terminal output when issuing the vagrant command. Include a description of what OS and terminal program you chose to use. [2 points]

```
C:\Users\Ryan Younes>vagrant
Usage: vagrant [options] <command> [<args>]
   -h, --help
                                    Print this help.
Common commands:
                    manages autocomplete installation on host
    autocomplete
    box
                    manages boxes: installation, removal, etc.
                   manages everything related to Vagrant Cloud
    cloud
    destroy
                    stops and deletes all traces of the vagrant machine
    global-status outputs status Vagrant environments for this user
    halt
                    stops the vagrant machine
    help
                    shows the help for a subcommand
                    initializes a new Vagrant environment by creating a Vagrantfile
    init
    login
                    packages a running vagrant environment into a box
    package
                    manages plugins: install, uninstall, update, etc.
    plugin
    port
                    displays information about guest port mappings
                    connects to machine via powershell remoting
    powershell
                    provisions the vagrant machine
    provision
    push
                    deploys code in this environment to a configured destination
                    connects to machine via RDP
    rdp
    reload
                    restarts vagrant machine, loads new Vagrantfile configuration
    resume
                    resume a suspended vagrant machine
    serve
                  start Vagrant server
    snapshot
                    manages snapshots: saving, restoring, etc.
                   connects to machine via SSH
    ssh
    ssh-config
                   outputs OpenSSH valid configuration to connect to the machine
    status
                    outputs status of the vagrant machine
                    suspends the machine
    suspend
    up
                    starts and provisions the vagrant environment
    upload
                    upload to machine via communicator
    validate
                    validates the Vagrantfile
    version
                    prints current and latest Vagrant version
    winrm
                    executes commands on a machine via WinRM
    winrm-config
                    outputs WinRM configuration to connect to the machine
or help on any individual command run `vagrant COMMAND -h`
```

In the screenshot, you can see the full help menu of the commands possible through Vagrant after I issued the vagrant command. I downloaded and ran the .msi for Vagrant on my issued Windows 10 machine, and used the default Windows command prompt as a terminal.

3. Detail the Vagrant box that you chose to use for the Install and Specify a Box tutorial. Your level of detail should be understood by a 4/c and should include information such as OS (and distro details if Linux), software installed, company behind the technology used, github repos associated, etc. [2 points]

I chose to use the Ubuntu 12.04 Precise Vagrant box for this tutorial, as this is an operating system I myself have used before. Ubuntu a mostly new user friendly operating system that still utilizes a graphical user interface with windows and applications as much as possible. This gives users that are accustomed to achieving most tasks with such an interface style the option to wean into the command line style that most Linux distributions rely on. Canonical, the company that provides upkeep for the Ubuntu operating system, is a private software company based in South Africa.

4. A screenshot of the files created for the Synchronize Local and Guest Files tutorial. [2 points]

I was able using PowerShell to successfully create a folder called "foo" while logged into Linux, and see it reflected in the virtual machine as well as in the Windows folder.

Mode	LastWriteTime		Length	Name
dal	8/31/2023	1:52 PM		.vagrant
dal	8/31/2023	10:20 PM		Files
dal	8/31/2023	10:20 PM		router
dal	8/31/2023	10:20 PM		volumes
-al	8/31/2023	2:29 PM	3014	<pre>docker-compose.yml</pre>
-al	9/11/2023	9:45 PM	0	foo
-al	9/11/2023	9:30 PM	110	runVagrant.ps1
-al	9/11/2023	9:28 PM	0	runVagrant.txt
-al	8/31/2023	1:52 PM	3476	Vagrantfile

PS C:\Users\Ryan Younes\OneDrive - Coast Guard Academy\Documents\Fall Classes 2023\CNS\boxes>