Lab 1

Saturday, August 26, 2023 10:27 PM

1/c Ryan Younes
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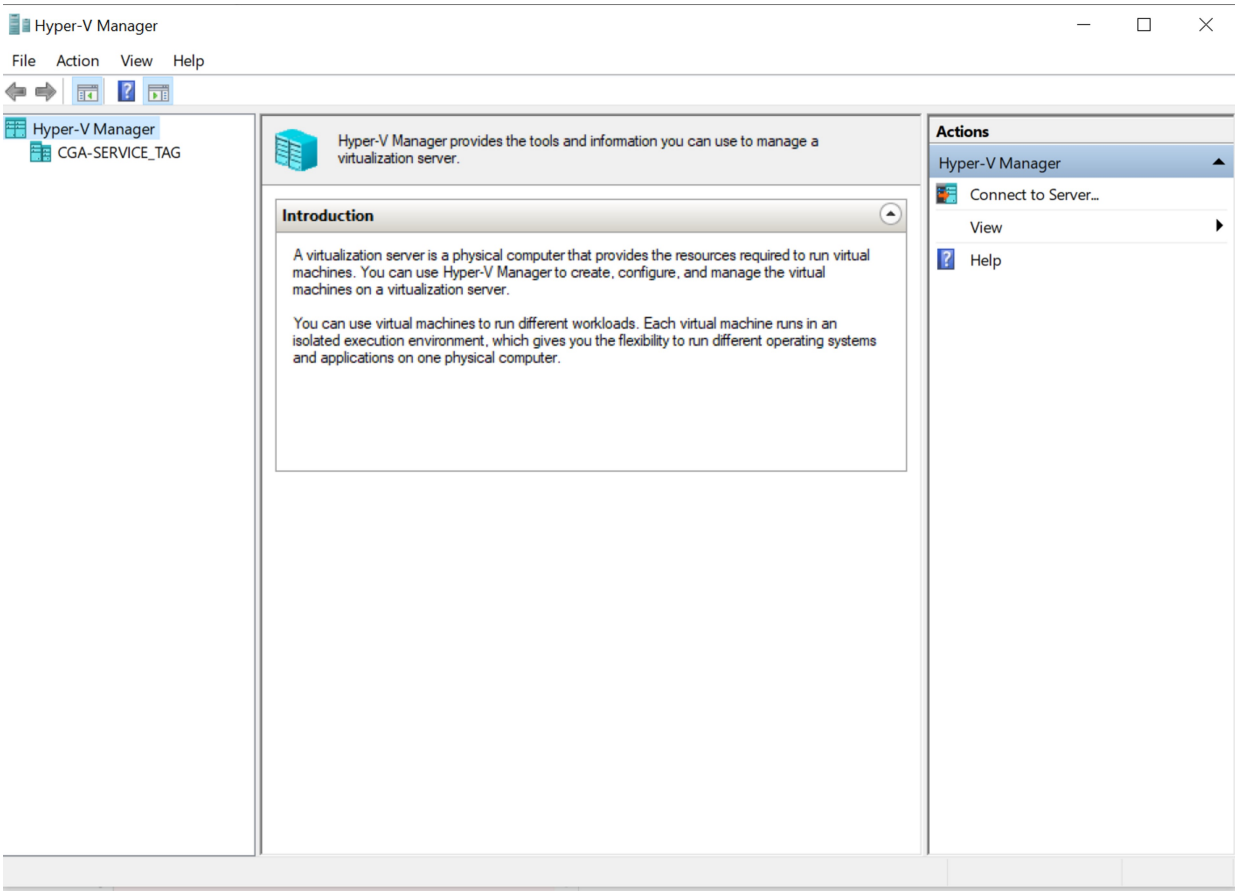
7330 Computer and Network Security

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:
     autocomplete    manages autocomplete installation on host
     box             manages boxes: installation, removal, etc.
     cloud           manages everything related to Vagrant 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
     init            initializes a new Vagrant environment by creating a Vagrantfile
     login
     package         packages a running vagrant environment into a box
     plugin          manages plugins: install, uninstall, update, etc.
     port            displays information about guest port mappings
     powershell      connects to machine via powershell remoting
     provision       provisions the vagrant machine
     push            deploys code in this environment to a configured destination
     rdp             connects to machine via 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.
     ssh             connects to machine via SSH
     ssh-config      outputs OpenSSH valid configuration to connect to the machine
     status          outputs status of the vagrant machine
     suspend         suspends the machine
     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

For 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]

As you can see, I was stopped at this step. Was not sure what the user and pwd was.

```
    default: URL: https://vagrantcloud.com/hashicorp/precise64
==> default: Adding box 'hashicorp/precise64' (v1.1.0) for provider: hyperv
    default: Downloading: https://vagrantcloud.com/hashicorp/boxes/precise64/version
s/1.1.0/providers/hyperv.box
    default:
==> default: Successfully added box 'hashicorp/precise64' (v1.1.0) for 'hyperv'!
==> default: Importing a Hyper-V instance
    default: Creating and registering the VM...
    default: Successfully imported VM
    default: Configuring the VM...
    default: Setting VM Enhanced session transport type to disabled/default (VMBus)
==> default: Starting the machine...
==> default: Waiting for the machine to report its IP address...
    default: Timeout: 120 seconds
    default: IP: 172.19.106.54
==> default: Waiting for machine to boot. This may take a few minutes...
    default: SSH address: 172.19.106.54:22
    default: SSH username: vagrant
    default: SSH auth method: password
    default:
    default: Inserting generated public key within guest...
    default: Removing insecure key from the guest if it's present...
    default: Key inserted! Disconnecting and reconnecting using new SSH key...
==> default: Machine booted and ready!
==> default: Preparing SMB shared folders...
    default: You will be asked for the username and password to use for the SMB
    default: folders shortly. Please use the proper username/password of your
    default: account.
    default:
    default: Username (user[@domain]): younecycle
    default: Password (will be hidden):
==> default: Credentials incorrect. Please try again.
==> default:
    default: Username (younecycle): vagrant
    default: Password (will be hidden):
==> default: Credentials incorrect. Please try again.
==> default:
    default: Username (vagrant):
```