Lab 3.1.1b Hyper-V Guest Creation

Introduction

A Hyper-V environment can be of great benefit to an organization. However, these benefits are mainly provided by the guest VMs operating inside it.

Objectives

In this lab the student will:

- Deploy, manage, migrate, and secure virtual machines [WECM]

Equipment/Supplies Needed

- Host Computer with VMware Workstation Pro
- Windows 10 VM
- Windows Server 2019 VM
- Alpine Linux Installer **disk Image file (ISO)**

Assignment

Students will configure a Hyper-V Lab environment, as shown in figure below, for use in subsequent labs.
Key activities include configuration of the following:
(1) A Windows 10 client Virtual Machine (VM)
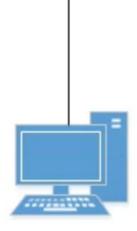(1) Windows Server 2019 Virtual Machine (VM)

NOTE: X.X.X. in IP address represents the Host only network (VMnet1) on your host PC.

VM name: Hyper-V
Host name: Hyper-V
Purpose: Hypervisor
Vmware Network Setting:
Host Only
NIC configuration:
x.x.x.110
SNM: 255.255.255.0
No gateway

VM name: Win 10 HV
Host name: Win10HV
Purpose: Administration
Client
Vmware Network Setting:
Host Only
NIC configuration:
x.x.x.120
SNM: 255.255.255.0
No gateway

Procedure

1. Configure Windows Server 2019 VM
   a. Download and copy an Alpine Linux ISO file.
      i. URL: https://alpinelinux.org/downloads/
      ii. Click the Standard x86_64 button.
      iii. Copy the Alpine Linux ISO to the Windows Server 2019 VM.
2. Access Windows Admin Center.
   a. Using the Windows 10 VM, log into the server through Windows Admin Center.
   b. Click the Virtual machines tool.

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  c. Click the Inventory tab.
3. Create a Guest Operating System
  a. Click New to create a new virtual machine.
    i. Name: Alpine
    ii. Generation: Generation 1
    iii. Scroll down to the Storage area and click Add.
    iv. Scroll down to the Operating system area and select "Install an operating system from an image file (.iso).
    v. Click the Browse button, browse to, and select the Alpine Linux ISO
    vi. Click Create.
  b. Start the Alpine VM.
    i. Place a check mark by the VM.
    ii. Click the More menu and select Start.
    iii. Once the VM has started, click Connect.
    iv. Accept the certificate.
    v. Enter the Administrator credentials.
      1. Username: hyper-v\Administrator
      2. Password: As decided above.
  c. Take a screenshot of the successfully booted VM.

Rubric

1. Screenshot of Windows Admin Center's Hyper-V Alpine Linux virtual machine – 100 points.