



Lab 2.1.1 Hyper-V Management

Introduction

Hyper-V must be installed before it can be utilized. This lab covers how to manage Windows Server 2019 remotely and how to install the Hyper-V environment using Microsoft Admin Center.

Objectives

In this lab the student will:

- Install, configure and manage virtual networking and storage [WECM]

Equipment/Supplies Needed

- Host Computer with VMware Workstation Pro
- Windows 10 VM
- Windows Server 2019 VM

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. Use the Windows 10 VM to install and configure Hyper-V roles on Windows Server 2019.
 - a. On the Windows 10 VM, copy and install Google Chrome.
 - b. Open a new Chrome browser window.
 - c. Browse to the address of the Windows Server 2019 VM.
 - d. Provide the requested credentials.
 - i. Username: Administrator
 - ii. Password: <Set in Module One lab>

- iii. Select "Use these credentials for all connections."
 - iv. Click Continue.
 - v. Note: If the credentials don't work, try entering "hyper-v\Administrator" as the user name.
- e. Proceed to the website.
- f. Click on the hyper-v server entry.
- g. Select "Use another account for this connection"
 - i. Enter the Administrator credentials again.
 - ii. Password: <As decided above>
 - iii. Select "Use these credentials for all connections."
 - iv. Click Continue.
- h. Click the > symbol on the top-left of the page to expand the Tools menu.
- i. Scroll down to the Settings Category.
 - i. Select the Remote Desktop setting.
 - ii. Choose "Select "Allow remote connections to this computer".
 - iii. Click Save.
- j. Scroll down the Tools menu and select the "Roles & features" category.
- k. Scroll down the Roles and features listed and select Hyper-V.
- l. Click Install, then Yes.
- m. Restart the server.
- n. Log back into the server through Windows Admin Center.
- o. A new Tool should have appeared in the list: Virtual machines. Click it.
- p. **Take a screenshot showing the Virtual machines overview window.**

Rubric

1. Screenshot of Windows Admin Center's Virtual Machines Summary page – 100 points.