



## Lab 2.1.2 Part C Lab vCenter Deployment - VMware

### Introduction

A network lab environment can be used to test upgrades/patches, evaluate new features, or as a training environment for hands-on experience.

### 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
- VMware vCenter virtual appliance

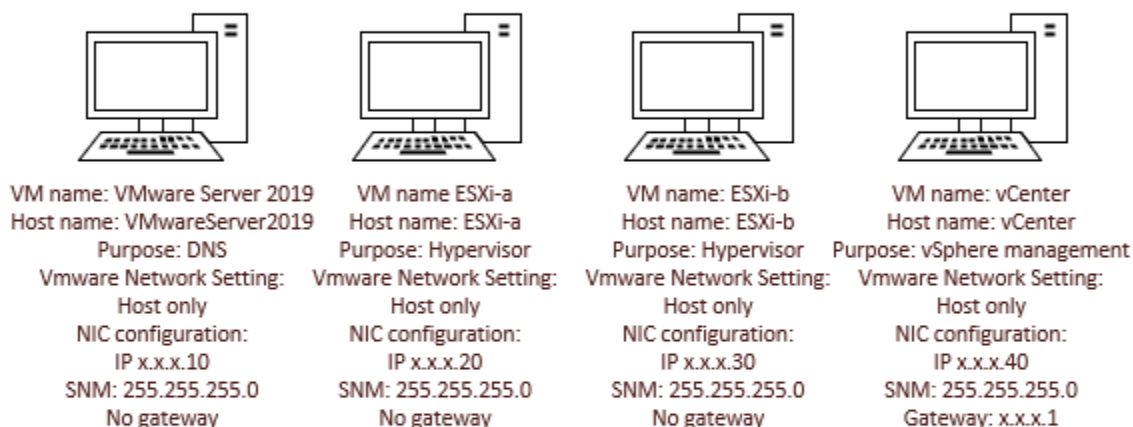
### Assignment

Students will configure a VMware vCenter Lab environment, as shown in figure below, for use in subsequent labs.

Key activities include final configuration of the following:

- (1) vCenter Virtual Machine (VM)

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



## Procedure

1. Power on vCenter, Windows Server 2019, Server 2019, and both ESXi VM's. It takes several minutes for a vCenter VM to fully load up.
2. On the host PC, open a browser and type <https://ip-of-vcenter:5480> to connect to vCenter.
  - a. In the Getting Started screen press the Setup icon to configure vCenter. This will open the Stage 2 installation wizard. Click Next from the Introduction step to proceed to Appliance configuration.
  - b. Appliance configuration: This step should be correctly configured already except for maybe Time synchronization which should synchronize with the ESXi host, and SSH access should be enabled. Verify all other settings are correct.
  - c. SSO configuration: Click create new SSO domain. Use the default [vsphere.local](https://vsphere.local) domain name. Set the SSO password.
  - d. Configure CEIP: Uncheck the box to join VMware experience program.
  - e. Ready to complete: Verify settings, then [screenshot the page before clicking on Finish](#). Wait until configuration finishes, which may take more than 15 minutes.
3. When vCenter VM has completed, go to URL **https://IP address of vCenter without the port number**.
  - a. Select "Launch vSphere Client (HTML5)"
  - b. Login as user [Administrator@vsphere.local](https://Administrator@vsphere.local) with the password you set.

4. The first time you log into vCenter the inventory is blank. We need to add a new Datacenter, which is a logical directory for your ESXi hosts and their VM's.
  - a. Click Actions, New Datacenter. Name the new Datacenter "Datacenter1".
  - b. Right click the new Datacenter and click on Add Host to add your two ESXi server VM's.
  - c. Enter the IP's not the names of ESXi VM's so vCenter can find them easily.
  - d. Specify the username/password for each ESXi server. The username is Root.
  - e. Assign a valid license key obtained from the TSTC VMware web site, or from your instructor. A trial license is not a valid license.
  - f. Disable Lockdown Mode to keep the ability to manage ESXi without vCenter. This gives you a backdoor of sorts for your lab. In the real world you probably would not want to do this.
  - g. Select Datacenter1 for the ESXi server VM's.
5. **Screenshot vCenter showing the new Datacenter with both ESXi server VM's in it.**
6. **Place all screenshots in a Word or PDF document and upload that document for grading. Submit the following items for grading as evidence of successful lab completion.**

<u>Concerns</u> Working Towards Proficiency	<u>Criteria</u> Standards for This Competency	<u>Accomplished</u> Evidence of Mastering Competency
	Screenshot of vCenter before clicking on Finish - Step 3e. (33.33 pt)	1 correct answer; 33.33 pt
	Screenshot of new vCenter Datacenter (33.34 pt)	1 correct answer; 33.34 pt
	Screenshot of valid license applied in step 4e. (33.33 pt)	1 correct answer; 33.33 pt