



Lab 6.1.2 Document and Design a Secure Virtualized Network

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

- No equipment is needed for this lab.
- Supplies are Visio (provided in Canvas) or a Web site (provided in Canvas)

Assignment

Students will develop a secure network diagram based on the Unit 6 scenario.

Key activities include the following:

- (1) Diagram a secure virtualized network for the company in the Unit 6 scenario.

Lab 6.1.2 requires you to create a secure network diagram for PK Industries. To be clear, you only need to account for phase one of the project in your diagram. That means you do NOT need to account for anything cloud related, unless you choose to. Your network diagram does not need to show the name of each subnet/Vlan but should show the Ipv4 network address for each subnet or Vlan and how you plan to structure the network. Be sure to understand what is happening in phase one of the project, and what you might have to include in your diagram to document the network in phase one. For example, it has been stated that credit card transactions will have their own Vlan. How will you document this, and what network hardware will be required to make this happen?

You do not need to show all stores on your diagram. Showing one store's connection will be sufficient for all stores. Be sure to show where each hardware device mentioned in the list of existing hardware is located on the network, including what subnet/Vlan it's in, as well as all new hardware purchases.

**Place all screenshots in a Word or PDF document and upload that document for grading.
The following rubric will be used in lab grading.**

<u>Concerns</u> Working Towards Proficiency	<u>Criteria</u> Standards for This Competency	<u>Accomplished</u> Evidence of Mastering Competency
	Network diagram shows all required elements for secure credit card processing and ATM transactions	25 points
	Network diagram shows all required elements for a secure network connection to the stores	25 points
	Network diagram shows location of all hardware devices on list of existing hardware, and all new hardware devices	25 points
	Network diagram shows the network Ipv4 address of each subnet/Vlan	25 points