Network Directory Services Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fall 2016 Midterm Exam

**Section A: Virtualization Concepts**

What is the super user of VMWare ESXI server?

What is another name for a hypervisor?

What is an example of a Type-II hypervisor?

What is a ‘guest’ operating system?

What is the ‘host’?

What is a ‘bare metal’ hypervisor?

Are container technologies a replacement for VMs? Please briefly explain your answer.

**Section B: Scripting Basics**

Write a BASH or Powershell script that displays the following information:

* Hostname
* Available and used disk space usage
* Available and used memory usage
* Current running processes

**Section C: Docker Images and Containers**

Step 1: Build the image. Write a Dockerfile that will build an image that will run your script you created in Section B. (See: ‘docker build’ on how to build the image if you need help.) Verify that your image successfully built, by displaying it in the list. (See: ‘docker images’ to list it)

Step 2: Run the container. This step verifies that you were able to retrieve the information requested of you, that you were able to build a re-useable image containing your script, and that it works inside of a container. (See: ‘docker run’ on how to run containers if you need help)

**Instructor Sign-Off**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_