

Cloud Computing Networks (IT425)

Lab Assignment 2

Due to Thursday, April 25, 2024, at 11:59
PM

➤ Assignment Rules:

- Assignments are for **individuals**.
- It contains **two parts**, follow instructions stated.
- You will deliver a **document** file with maximum of **10 pages**.
- Convert document to pdf format.
- Name the document file with the following format **studentID Ass#2**.
- Submit your file to the following form [link](#)

This assignment aims at exploring and getting practice in VMware hands-on lab to try the vSphere application on the VMware cloud follow the following steps:

- Open the VMware hands-on lab from the following URL
<https://labs.hol.vmware.com/HOL/catalog>
- Create a new account and log-in
- Search for **Virtualization 101** in search bar
- Click **Enroll** then click **Start this lab**, it will open a session for you in the VMware cloud to test the VMware application live.

➤ Part 1 - Investigate vCenter Server:

1. Open Firefox browser it will open vCenter Server page then login with account provided to you.
2. In left side of page, you will find four icons, click first one **hosts and clusters** icon choose **esxi-01**, then click **monitor** in right side and click **overview** now you see performance of one of ESXi server take **screenshot1**.

3. View datacenter object, Click on **RegionA01** on summary answer the following.
 - How many networks in this datacenter object?
4. Then click on **RegionA01-comp01** cluster view it and take **screenshot2**.
5. Now click third icon **Datastores**, you will see two datastores and you can view files on them view files of datastore 1 take **screenshot3**.
6. Now click forth icon **Networking**, you will see networking and virtual switches made in network take **screenshot4**.

➤ **Part2-Virtual networking:**

7. Now Follow instructions in **the lab manual** in the right corner or you can open it from [here](#) follow instructions of module 2 part of standard and distributed switch pages from (190 - 272).
8. Create a port group called **production** and make VLAN 100 then view it by click on esxi01 then configure>virtual networks and view **vswitch1** take **screenshot5**.
9. Add another physical interface to the new standard switch and take **screenshot6**.
10. Change all security policy settings to accept and take **screenshot7**.
11. Change failover order and take **screenshot8**.
12. Add any of VM created in lab to production port group then view new standard switch again with VM added to it and take **screenshot9**.
13. Complete the distributed switch part and take **3 screenshots** and answer the following question:
 - What is the difference between standard and distributed virtual switches?