

**IST 615 – Cloud Management
School of Information Studies
Syracuse University
Fall / 2024**

Homework #2

Due date: October 1 /2024

Part 1 (35 points)

The following website:

<https://azure.microsoft.com/en-us/resources/customer-stories/>

provides a catalog for a large number of Azure customer success stories (case studies).

Select a customer story from an industry sector of interest to you and answer the following questions in your own words, don't just copy the content from the story:

- a. Which company/customer does the story refer to and what is the economic sector where the company offers its products/services?
- b. What were the main drivers for the company/customer to use cloud services?
- c. What was made more efficient for the customer thanks to the use of cloud services?
- d. What other benefits were obtained from the use of cloud services?

Additionally, include the following:

- e. List of Azure services used by the customer
- f. Link to the customer story

Part 2 (35 points)

Select an Azure cloud service of interest to you that is not related to Virtual Machine creation (since this has been covered in class) and provide the following:

- a. A brief description of the service and its capabilities in your own words (at least 1 paragraph)
- b. A description of how the service is billed (cost of the service)
- c. A link to the official description of the service AND a link to a tutorial (doesn't need to be from Microsoft) that you think may help in understanding and/or testing the service/

Part 3 (30 points)

Create a new virtual machine in Azure that uses a "Ubuntu Server 22.04 LTS – x64 Gen2" operating system image. The size of the VM can be Azure's Standard_D2s_v3 (2 vcpus, 8 GiB memory) but VMs with 2 vcpus and 4 GiB of memory are also acceptable. You can follow similar steps to those mentioned in Lab #1 to complete this task up until section 6.2. You don't need to install any additional software (e.g.

Apache) in the new VM. You should provide a name to the VM and to the SSH keys that is of your choosing.

To verify and document completion of this task, perform the following actions:

- a. Provide a screenshot of your Azure Portal showing the new VM's details.
- b. Provide a screenshot that shows that you can SSH into the new VM. Please note that it is preferable that you connect to the VM directly from your laptop in a similar fashion to how ssh connections were established for the VM used in lab 2. Even though lab 2 was done with AWS, once you have your ssh private key (for your Azure VM) on your laptop, you can connect to it in a similar way. As an alternative you can connect to your new (Azure) VM from the Azure Cloud Shell.

Once you have completed the previous tasks, you should stop the new VM, don't delete it as it will be used in our next class session.