

CTSE - Lab 01 - 2023

Sunday, April 23, 2023

Introduction to Cloud Computing via Azure Portal

Objective:

The objective of this lab assignment is to introduce Microsoft Azure Cloud Computing and the various services provided by the platform.

Instructions:

1. Create an Azure account:

- a. Sign up for an Azure account by visiting <https://azure.microsoft.com/en-us/free/>
- b. Follow the instructions to create a free account. Once your free account is created, navigate to <https://portal.azure.com> and search Subscriptions. There will be a subscription available for you with your free account.
This will be the subscription you will be using for every step forward.

- c. Select "Create a resource" and choose "Resource Group". And create a resource group by giving an appropriate name.

Note: Every Resource you create from step 2, should be created inside the resource group you've created above.

2. Create a virtual machine:

- a. Navigate to the Azure portal at <https://portal.azure.com>

- b. Select "Create a resource" and choose "Virtual Machine".
- c. Choose the appropriate OS and size of the virtual machine.
- d. Configure the virtual machine settings, including username, password, and network settings.
- e. Click "Create" to deploy the virtual machine.

3. Create a storage account:

- a. Navigate to the Azure portal at <https://portal.azure.com>
- b. Select "Create a resource" and choose "Storage account".
- c. Choose the appropriate settings, including account type, replication type, and storage location.
- d. Click "Create" to deploy the storage account.

4. Create a web app:

- a. Navigate to the Azure portal at <https://portal.azure.com>
- b. Select "Create a resource" and choose "Web App".
- c. Choose the appropriate settings, including app name, subscription, resource group, and OS.
- d. Click "Create" to deploy the web app.

5. Monitor and analyze usage:

- a. Navigate to the Azure portal at <https://portal.azure.com>
- b. Select "Monitor" to view usage metrics for your virtual machine, storage account, and web app.
- c. Observe the data to optimize performance and usage.

6. Clean up resources:

- a. Navigate to the Azure portal at <https://portal.azure.com>
- b. Delete all resources created in this lab assignment to avoid unnecessary charges.
- c. Delete the resource group you've created in 1. c