Meet Agrawal
Topic - Cloud

Assignment - 5 - PoC Document

Basic Setup -

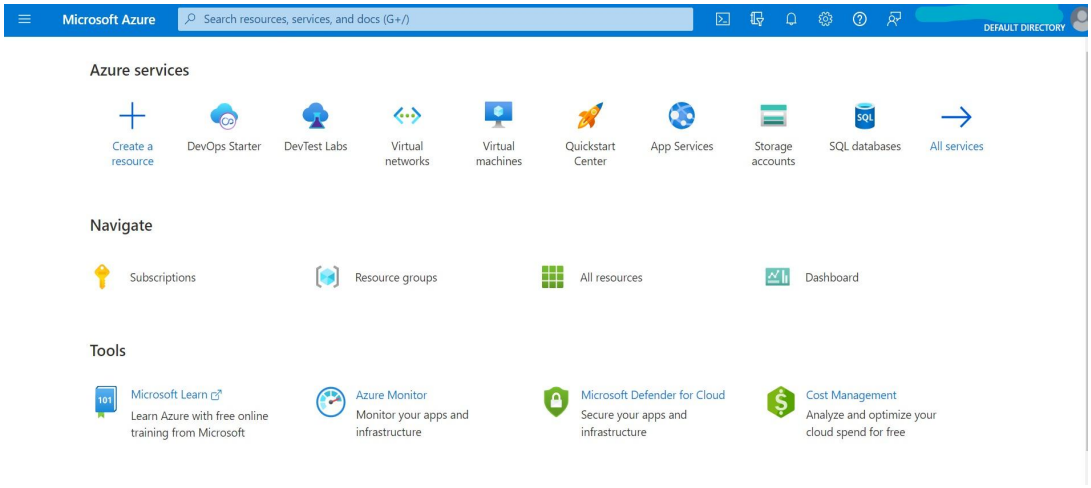
Activating Student Credits for using Azure -

Solve the assignment by activating Azure for Students using your college email id
Use the link - https://azure.microsoft.com/en-in/free/students/

Making account on Azure -

1) Register with a gmail account (not the student account - normal gmail account)
2) Then Click Link above and sign In again
3) You will be redirected to a form where you need to enter your college email
4) Accept confirmation email on your college account and you are all set with the student credits.

Final Screen once done with the setup looks -



Setting up Node JS :

You need Node JS to solve this assignment
Watch the video to setup if you haven't already done -
https://youtu.be/__7eOCxJyow

Steps to follow :

1) Move to your cloud portal on azure

https://portal.azure.com

2) Make a Virtual Machine Resource and allow access using SSH and HTTP
https://docs.microsoft.com/en-us/azure/virtual-machines/linux/quick-create-portal
Link used to create the VM -
https://portal.azure.com/#blade/Microsoft_Azure_Billing/FreeServicesBlade

Machine Configuration :

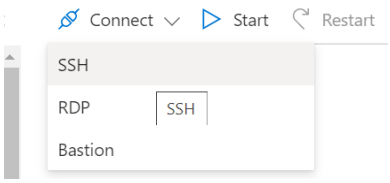
- Standard B1s (1 vcpu, 1 GiB memory)
- Linux (ubuntu 16.04)

3) After you click on create it makes you download a "**.pem**" file which we will use to access the virtual machine using SSH

4) Commands to follow to ssh into the virtual machine created

```
chmod 400 <.pem file path>
ssh -i <.pem file path> azureuser@public-ipaddr
```

(Click option connect and then click "SSH" to get the details)



5) Open another instance of terminal on your machine

6) Create 2 folders each on local machine as well as on Virtual Machine named "send" and "receive"

```
mkdir send
mkdir receive
```

7) In the "send" folder on local machine create 3 files -

```
touch text1.txt
touch text2.txt
touch text3.txt
```

8) In the "send" folder on virtual machine create 3 files -

```
touch text4.txt
touch text5.txt
touch text6.txt
```

https://docs.microsoft.com/en-us/azure/virtual-machines/linux/copy-files-to-linux-vm-using-scp#quick-commands

9) Send the “send” folder of the local machine to “receive” folder of Virtual Machine

scp -i <.pem file path> -r <directory path on local machine> username@public-ip:<directory path on Virtual Machine>

- **use “pwd” to find the correct path**

10) Check if it now appears in “receive” folder of Virtual Machine using the **“ls”** command

11) Now download or copy the “send” folder on the virtual machine to the “receive” folder on the local machine

scp -i <.pem file path> -r username@public-ip:<directory path on Virtual Machine> <directory path on local machine>

12) Check if it now appears in “recieve” folder on local machine using the **“ls”** command