Pandit Deendayal Energy University (PDEU)

Cloud Computing Lab (20CP322P)

B.Tech-Computer Science & Engineering (Sem-VI)

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19BCP138

DIVISION – 2 (G4)

Experiment – 4

Microsoft Azure

❖ **Aim:** To Explore **Microsoft Azure**.

➢ Perform the following:
1. Create a student account in Microsoft Azure
2. Create a Virtual Machine with minimum configuration (Don't use the default suggested storage etc.)
   a) Use Standard SSD option
   b) Use password for authenticating the VM.
3. Create a Resource Group and assign some resource to it
4. Create a Virtual Network
5. Create 3 subnets having 256 host in each subnet
6. Create a virtual machine in each subnet and identify its public and private id address

1. Create a student account in Microsoft Azure:

- Go to https://azure.microsoft.com/en-in/free/students/ and create a free student account.
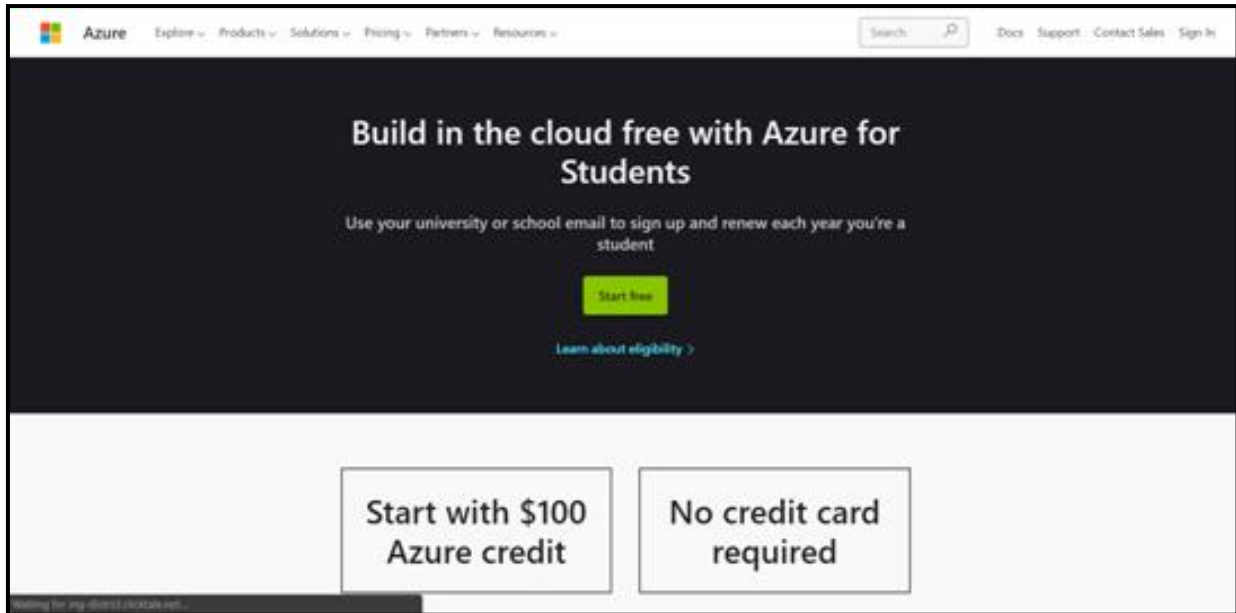
- Sign-in to create an account, after creating account you will be redirected to home page.
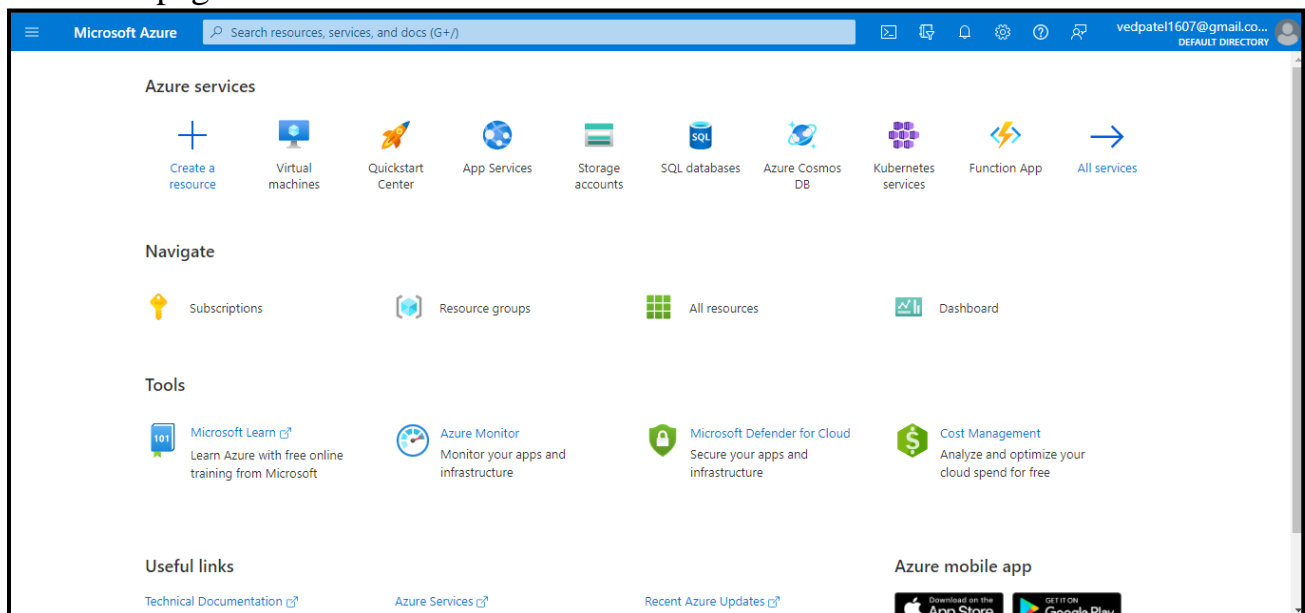
2. Create a Virtual Machine:

- Search for Virtual machine in search bar or select virtual machine from azure services.
- Select create from the top left navigation bar.

- Enter VM name and select lowest size and create username and password for VM.

- Select Standard SSD option in Disks.

- Go to review and create to create a VM.

3. Create a Resource Group and assign some resources in it:

- Select Resource Group from navigate bar or search resource group in search bar and then click on create.
- Add name for resource group.

- Create resource group.

- Assigned resources in resource group.

4. Create a Virtual Network:

- Open Virtual Network and create a virtual network.

- Add name for virtual network.

5. Create 3 subnets having 256 hosts in each Subnet:

- Click on add subnet and add 3 subnets.

- Click on create to finally create virtual network.

6. VM for each subnet and its public and private id address:

- Click on add subnet and add 3 subnets.

- VM for Sub 1.

Virtual machine

Computer name	vedantVMsub1
Health state	-
Operating system	Linux
Publisher	canonical
Offer	0001-com-ubuntu-server-focal
Plan	20_04-lts-gen2
VM generation	V2

Networking

Public IP address	vedantVMsub1-ip
Public IP address (IPv6)	-
Private IP address	10.1.0.4
Private IP address (IPv6)	-
Virtual network/subnet	vedant_VM/subnet1
DNS name	Configure

- VM for Sub 2.

Virtual machine

Computer name	vedantVMsub2
Health state	-
Operating system	Linux
Publisher	canonical
Offer	0001-com-ubuntu-server-focal
Plan	20_04-lts-gen2
VM generation	V2

Networking

Public IP address	vedantVMsub2ip427
Public IP address (IPv6)	-
Private IP address	10.1.1.5
Private IP address (IPv6)	-
Virtual network/subnet	vedant_VM/subnet2
DNS name	Configure

- VM for Sub 3.

Virtual machine

Computer name	vedantVMsub3
Health state	-
Operating system	Linux
Publisher	canonical
Offer	0001-com-ubuntu-server-focal
Plan	20_04-lts-gen2
VM generation	V2

Networking

Public IP address	vedantVMsub2ip427
Public IP address (IPv6)	-
Private IP address	10.1.1.5
Private IP address (IPv6)	-
Virtual network/subnet	vedant_VM/subnet3
DNS name	Configure