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Topic - Microsoft Azure Cloud Computing (June-July '20)

Under guidance of - Mr. Rajdeep Das Sir (Verzeo)

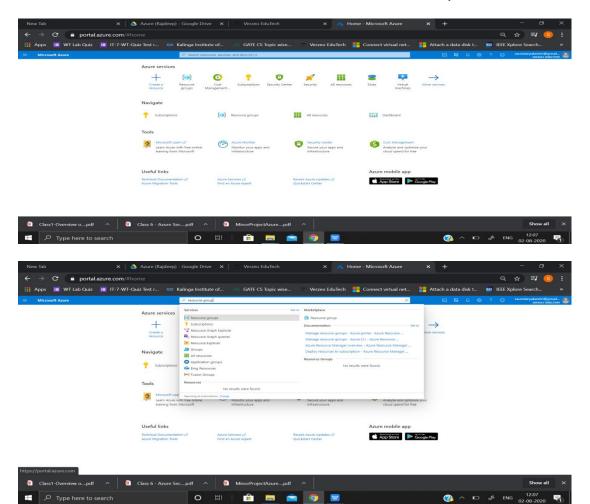
Minor Project 02

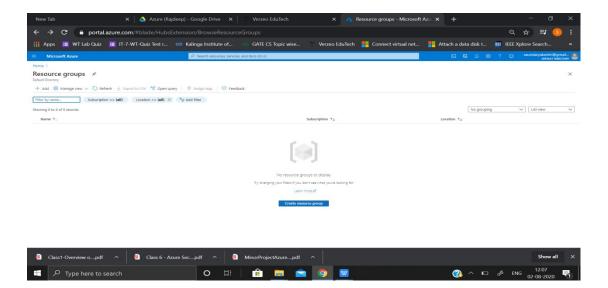
- Creating a Resource Group

Resource group are like folders which contain all resources (Virtual Networks , Virtual Machines etc)

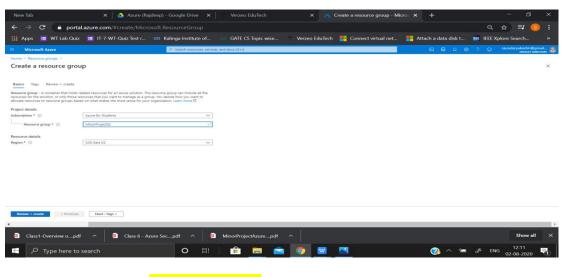
----- It is a container that holds related resources for an Azure solution. The resources group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource group based on what makes the most sense for your organization.

- ➤ How to create Resource group:
 - 1.Sign in to the Azure portal at https://portal.azure.com
 - 2. From the All services blade, search for and select **Resource Group**, and then click**+Add**.

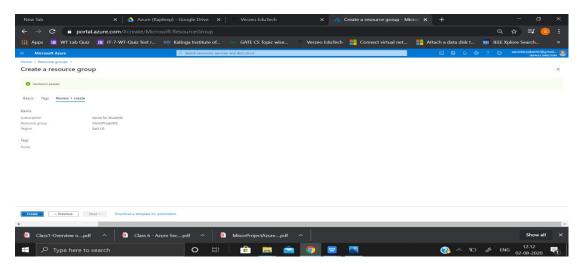


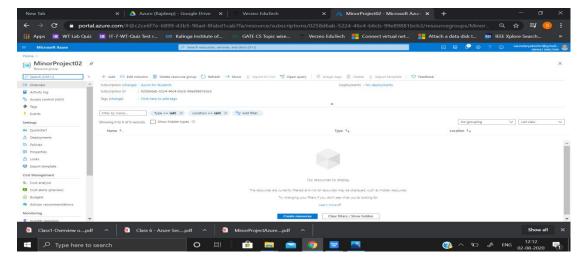


- 3. Fill the required details such as Resource Group name, Region.
- 4. Click the Review + create button



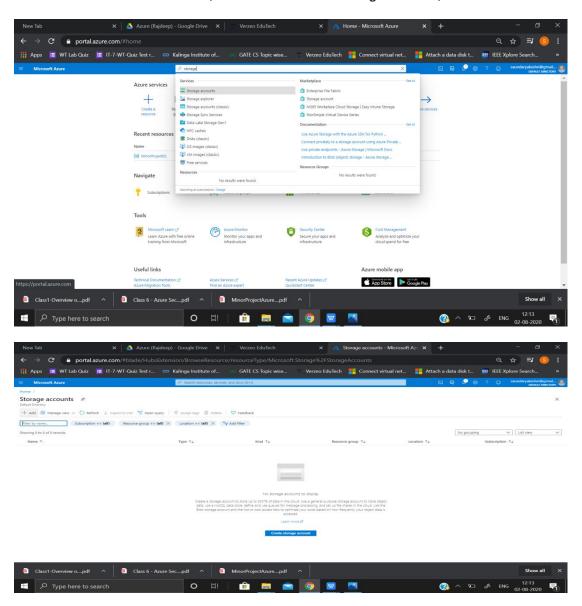
- 4. After the Validation is passed click on Create
- 5. The Resource group named as MinorProject02 is created.



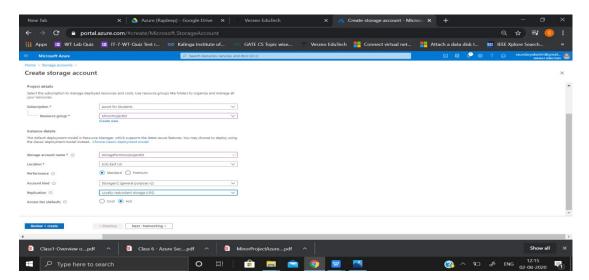


- Creating a Storage Account

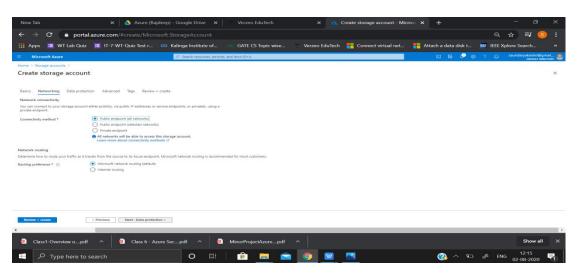
1. From the All services blade, search for and select Storage accounts, and then click + Add.



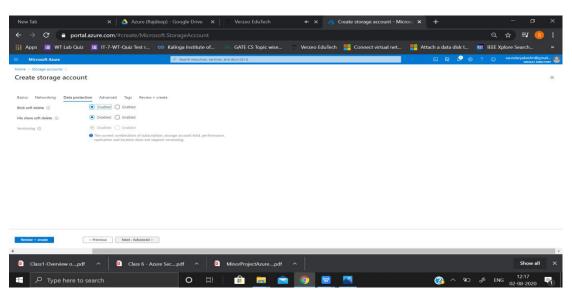
2. Enter the following information and click on Next: Networking



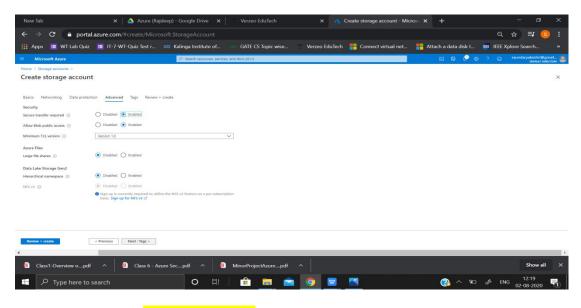
3. Select the appropriate option under **Networking** and click on **Next:Data protection**



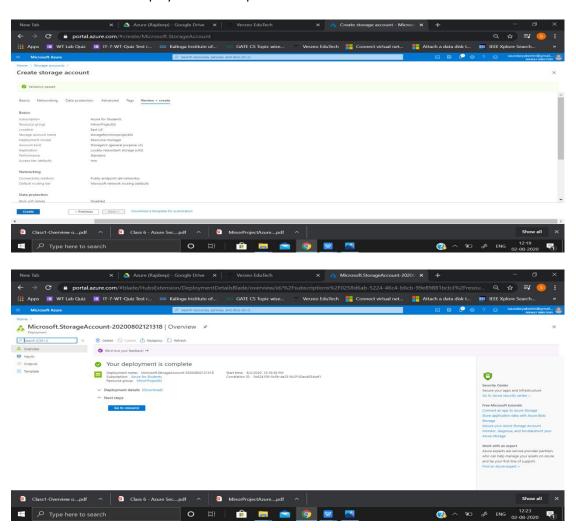
4. Select the appropriate option under **Data protection** and click on **Next: Advanced**



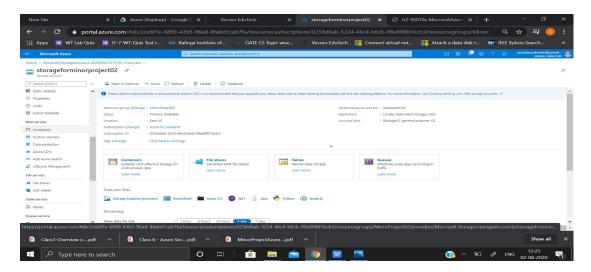
5. Select the appropriate option under Advanced and click on Review + create



- 6. After the Validation is passed click on Create.
- 7. Wait for deployment to complete.

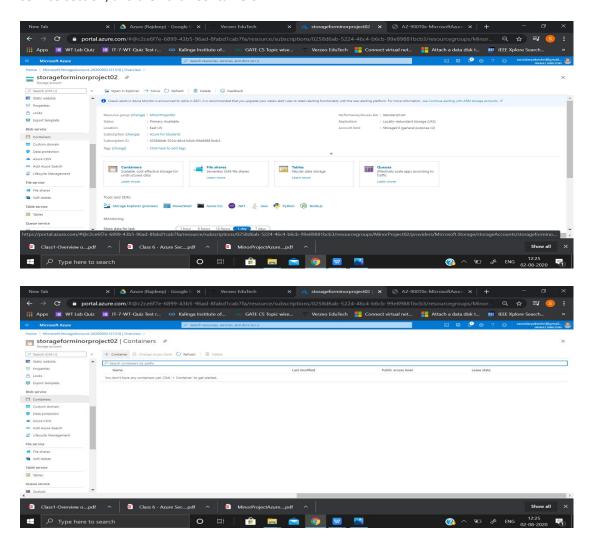


8. The Storage group named as **storageforminorproject02** is created.

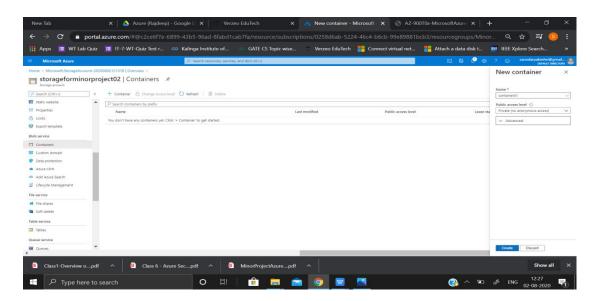


- Creating a Container and upload a file in the BLOB

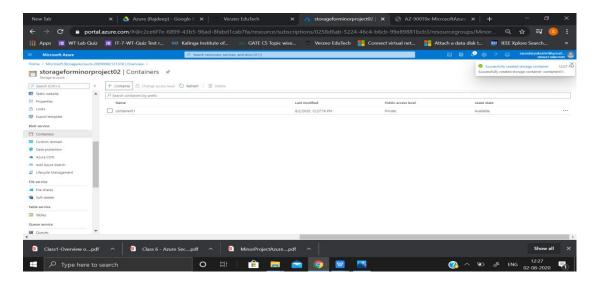
1.Go to the created Storage account- **storageforminorproject02** and scroll to the **Blob service** section, and then click **Containers**.



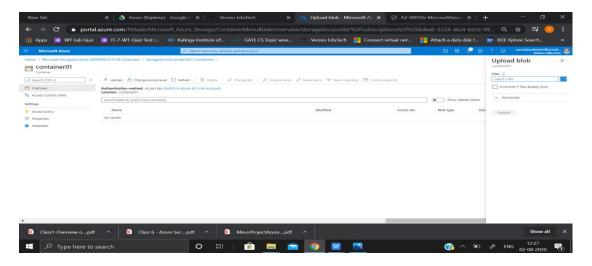
2. Click + Container and fill the information. When done click on create



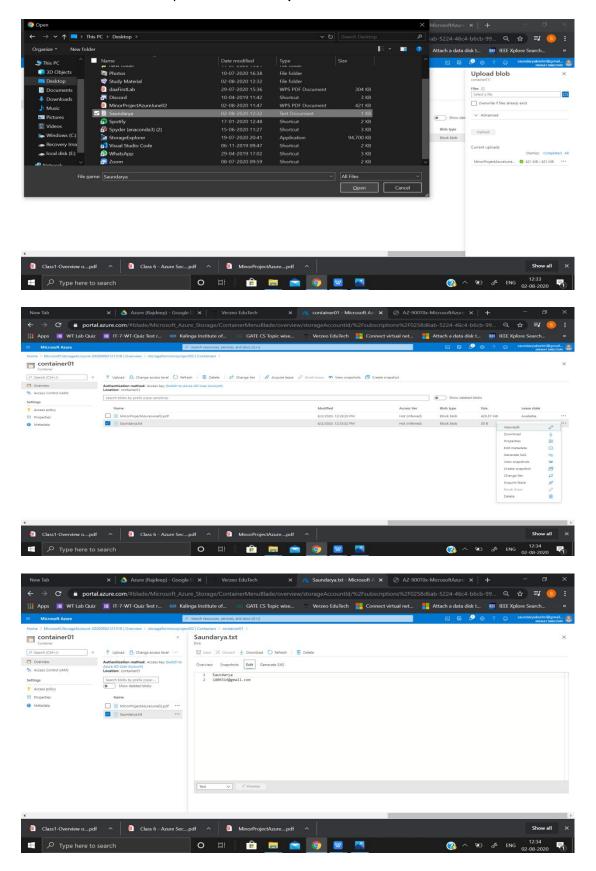
3. The container named container01 is created.



4. Click on the container created i.e container01 and click on Upload

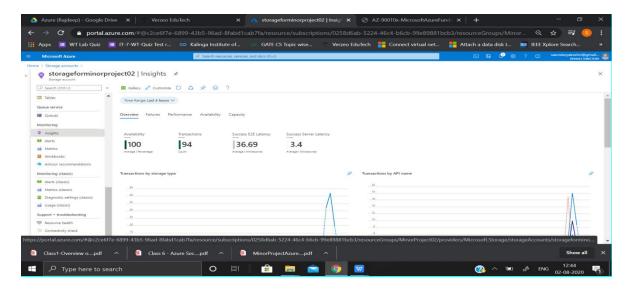


5. Browse to a file in our system and click on upload

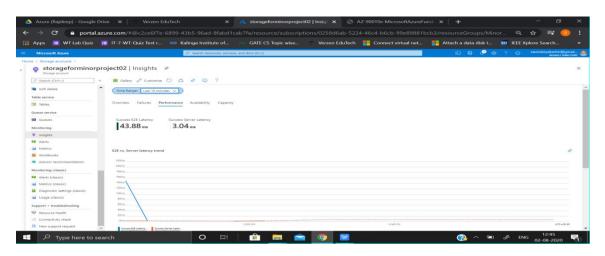


- Monitor the storage account

1. On the storage account blade, scroll down to the Monitoring section and click Insights.

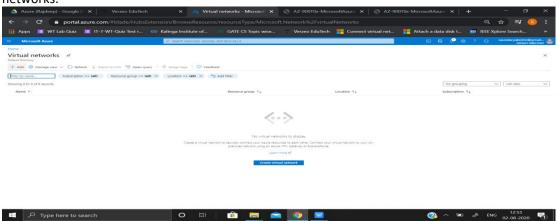


2. We can also set the Time Range.



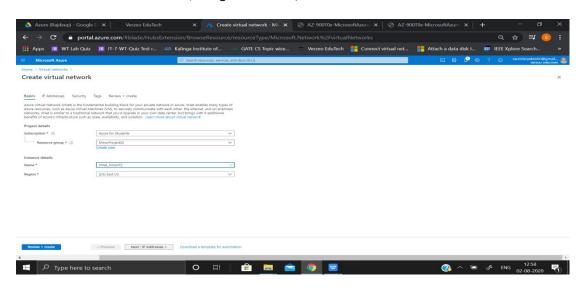
- Creating VNets containing 1 Subnets

1. From the created Resource group(MinorProject02) click on +Add, search for and select Virtual networks.

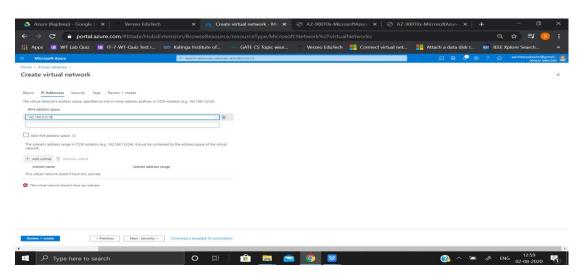


2. We name the VNet as - VNet_minorP2 with a reserved CIDR block of 192.168.0.0/16 containing 1 subnets

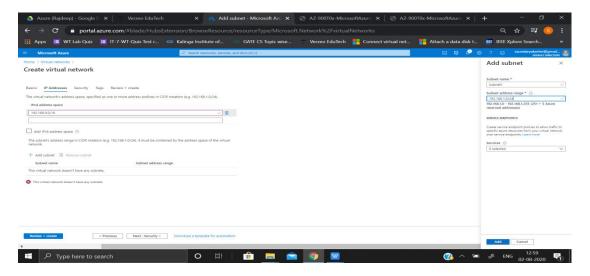
a. **Subnet1**, using 192.168.1.0/24 as its CIDR block.



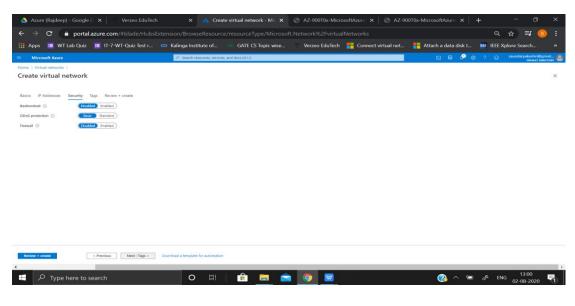
3. Click on Next: IP Addresses



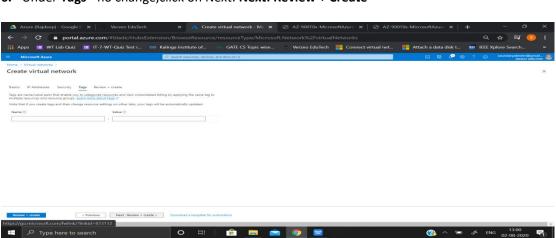
4. After creating the subnet - Subnet1 click on Next:Security



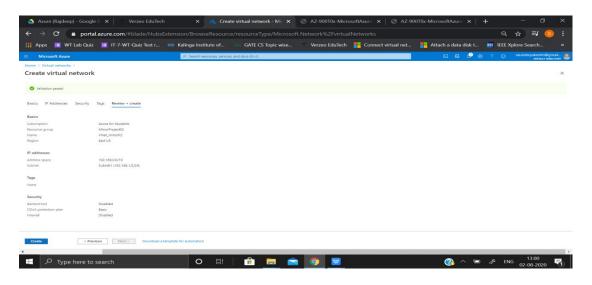
5. Under Security - no changes, click on Next: Tags



6. Under Tags - no change, click on Next: Next: Review + Create

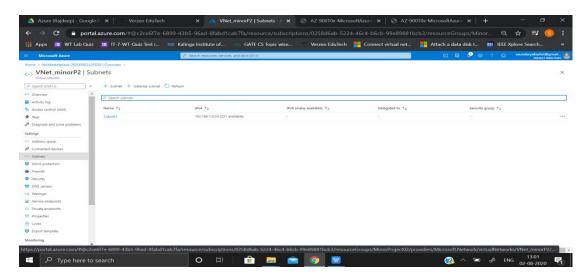


7. After the Validation is passed click on Create



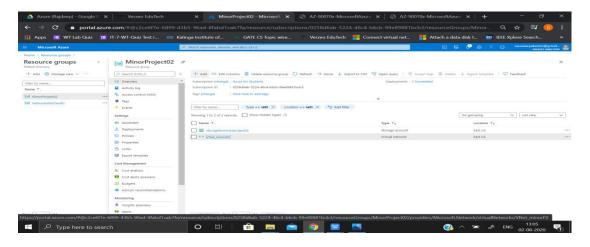
8. Wait for deployment to complete.

9. Thus, VNet_minorP2 is created having 1 subnet - Subnets1

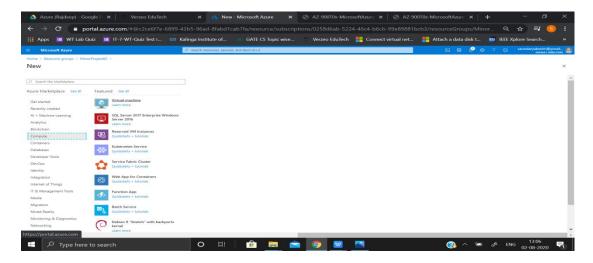


-Creating Virtual Machine

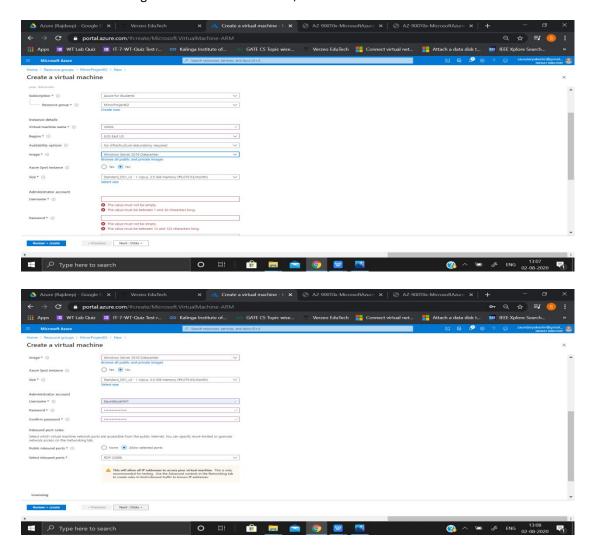
- 1. From the All services blade, search for and select **Resource Group** , and select the resource group that we have created (ex. MinorProject02)
- 2. To create Virtual Machine VM02 for VNet_minorP2 . Select VNet_minorP2



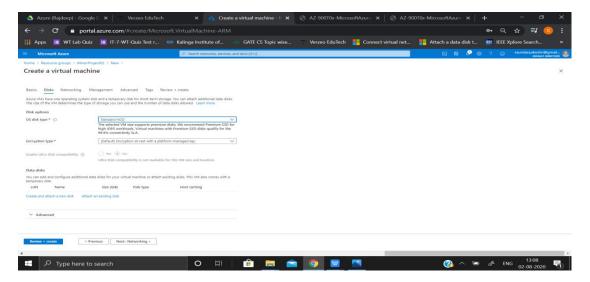
3. Select Compute, and select Virtual Machine.



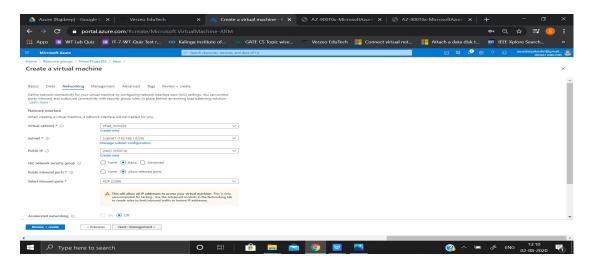
4. Enter the following information under Basics, and click on Next: Disks



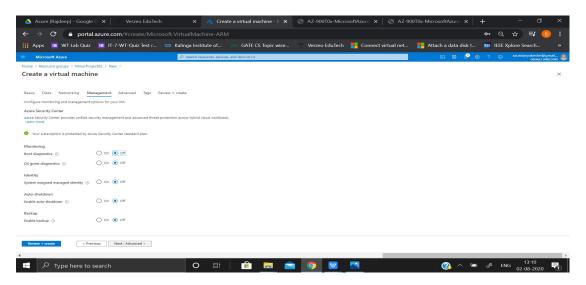
5. Under Disk select OS disk type as **Standard HDD**, keep the remaining as default and then click on **Next: Networking.**



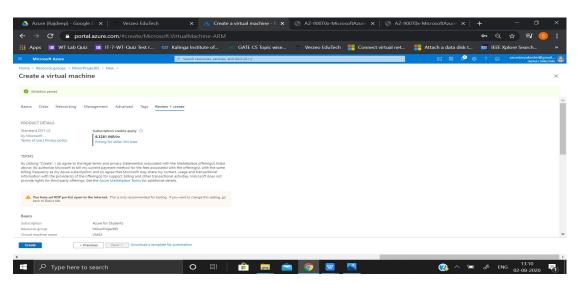
6. Enter the following information under Networking, and click on Next: Management



7. In the management section turn everything Off, and click on Review + create.

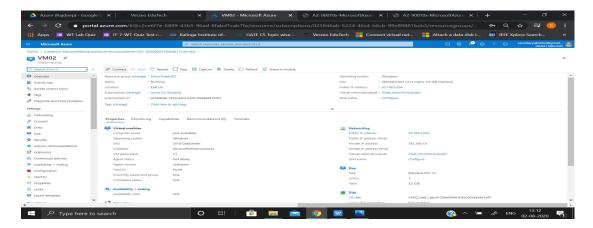


- 8. After the verification is passed.
- 9. Click on Create. Wait for the VM02 to deploy

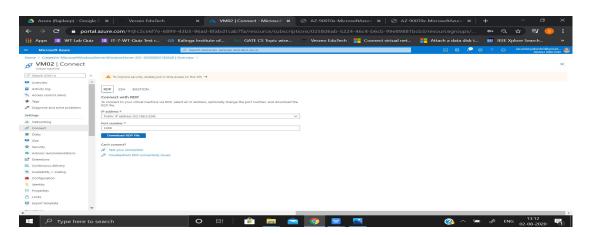


-Connect to the virtual machine

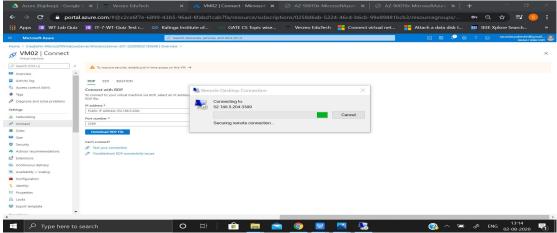
1. After the deployment is done for the VM click on **connect** (Ensure that the VMs are in Running status if not click on **start**)



- 2. Connect as RDP (for VM of Windows)
- 3. Download the RDP file.



- 4. Click on the downloaded RDP file and click on Connect.
- 5. Enter the Username and Password specified earlier while creating VM02.
- 6. Select Yes and proceed. We now enter to our created virtual Machine(VM02)

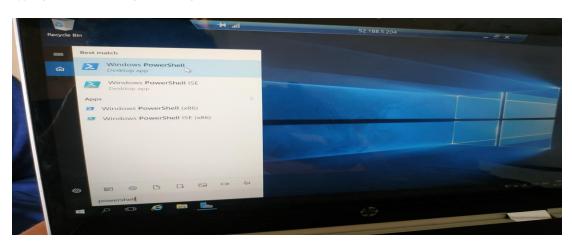




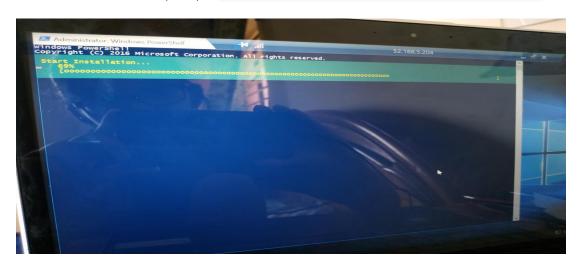
Virtual Machine VM02

-Install the web server role and test

1. Open up a PowerShell command prompt on the virtual machine, by clicking the **Start** button, typing **PowerShell**, right clicking **Windows PowerShell**



2. Install the **Web-Server** feature in the virtual machine by running the following command in the PowerShell command prompt - Install-WindowsFeature -name Web-Server -IncludeManagementTools





3. In the browser of your Virtual Machine (VM02) type localhost

