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BATCH: DXC-262-Analytics-B12-Azure SUBMISSION: 8-6-2022

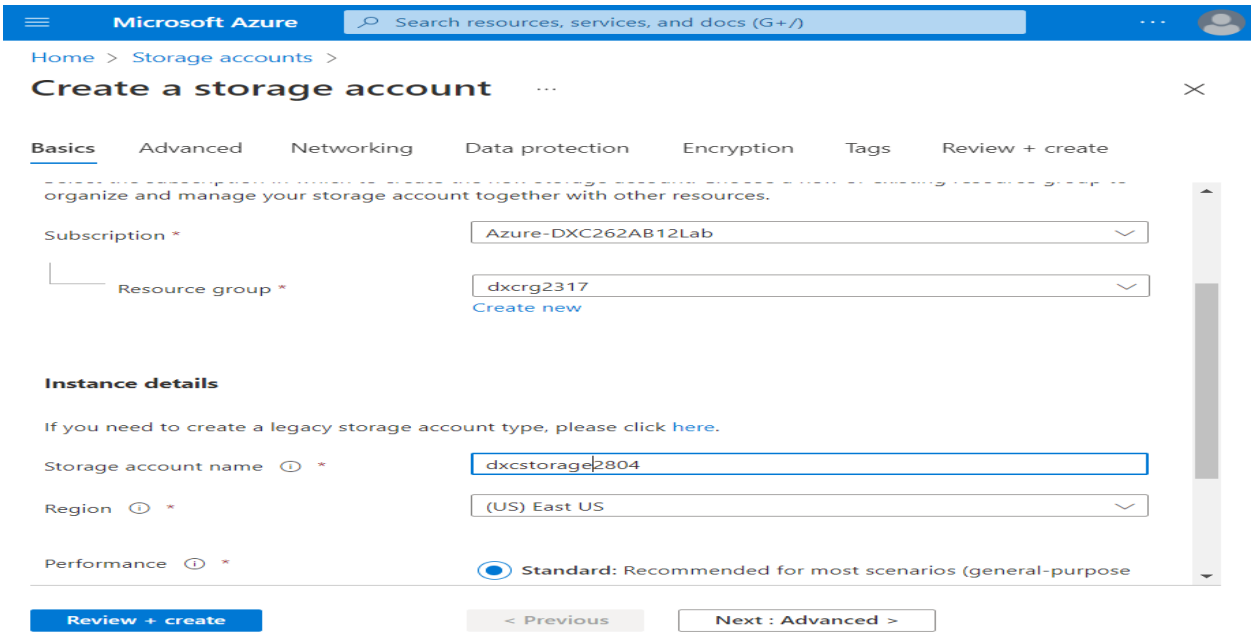
COMPANY: DXC TECHNOLOGY

DAY-8

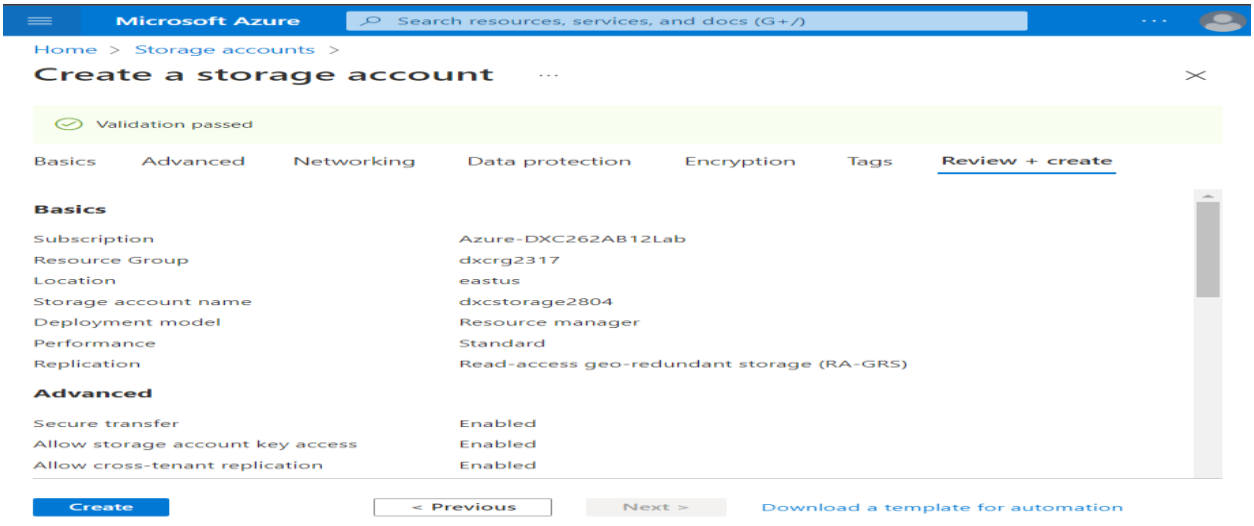
**1) Explain the steps with screenshots how to create Blob storage in Azure cloud?**

First we need to go to Azure and search for storage accounts and click on create

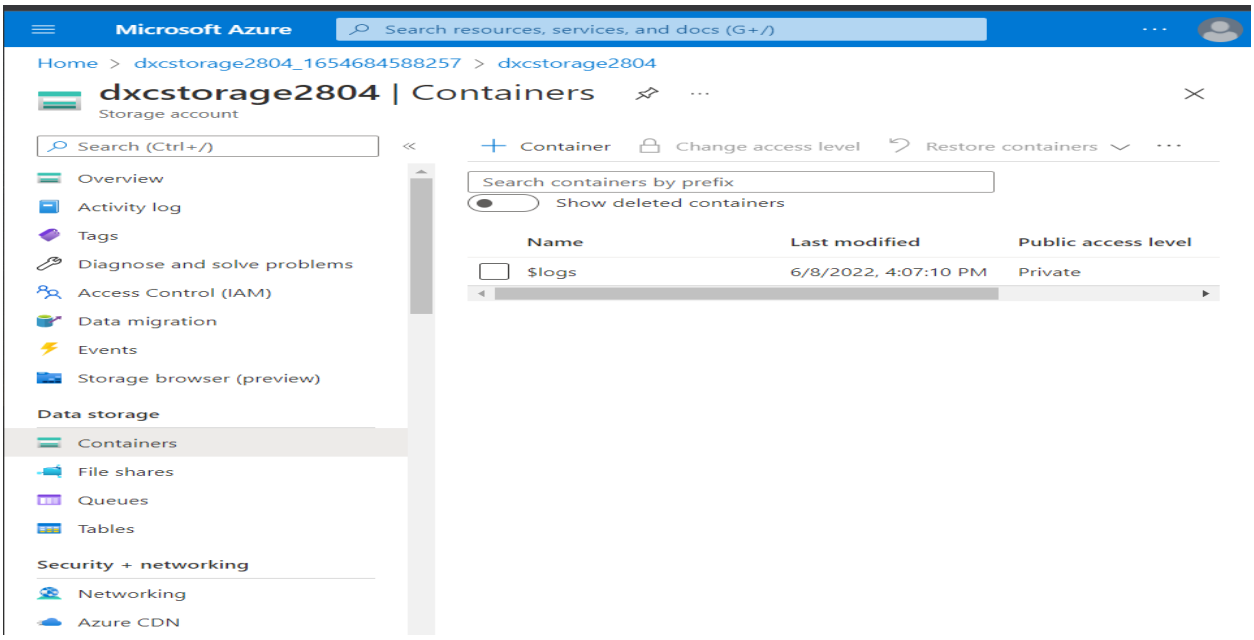
Give the resource group name dxcrg2317 and storage account name as dxcstorage2804



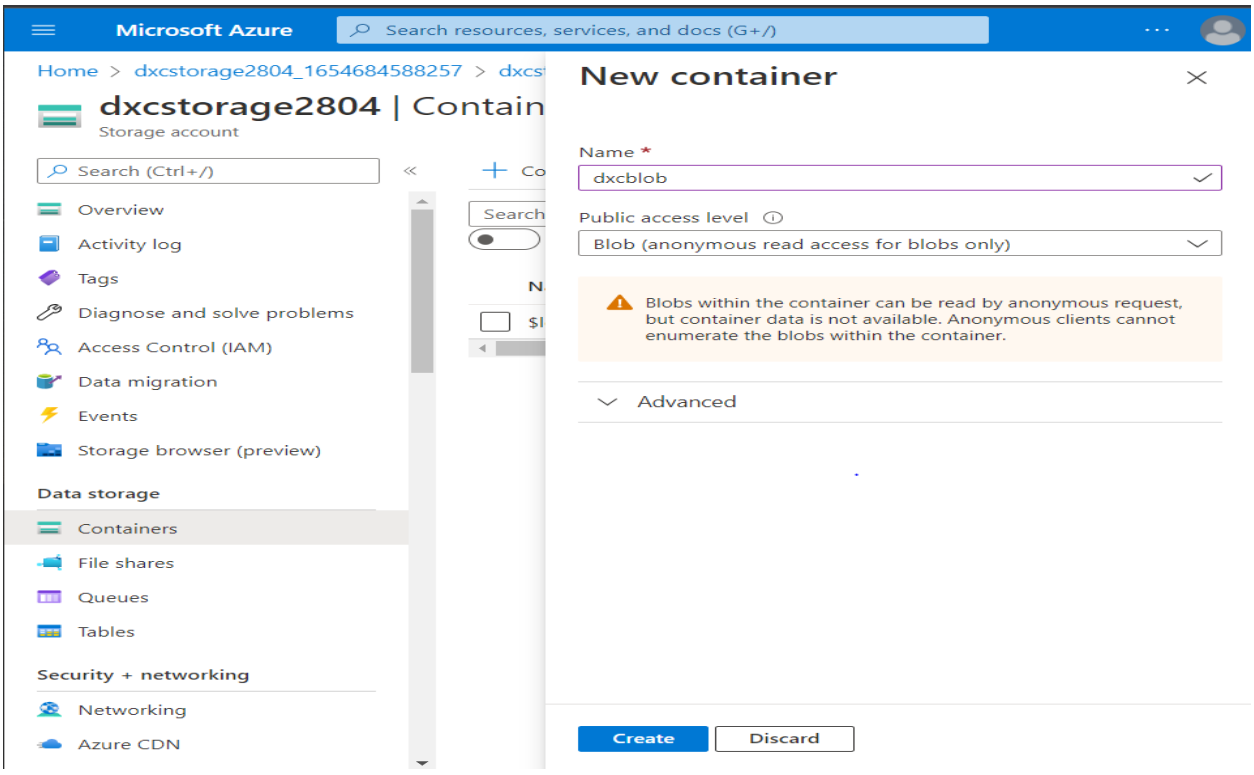

Keep all default advanced, Networking and keep on clicking next and click Review + create, We get validation to create



After that we will get Your Deployment is complete and go to Resource in that Click on Containers-> + Container

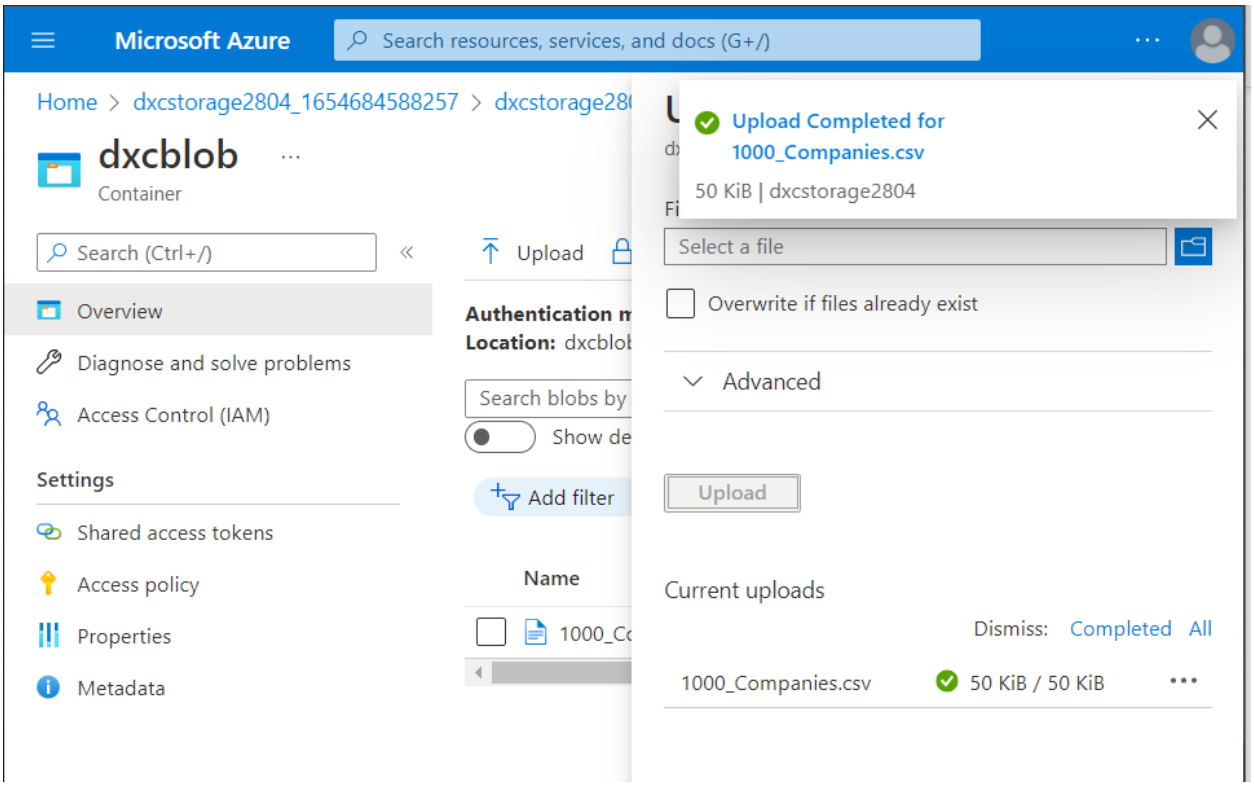



After that give the name of the container dxcblob and Public access level as Blob and Create

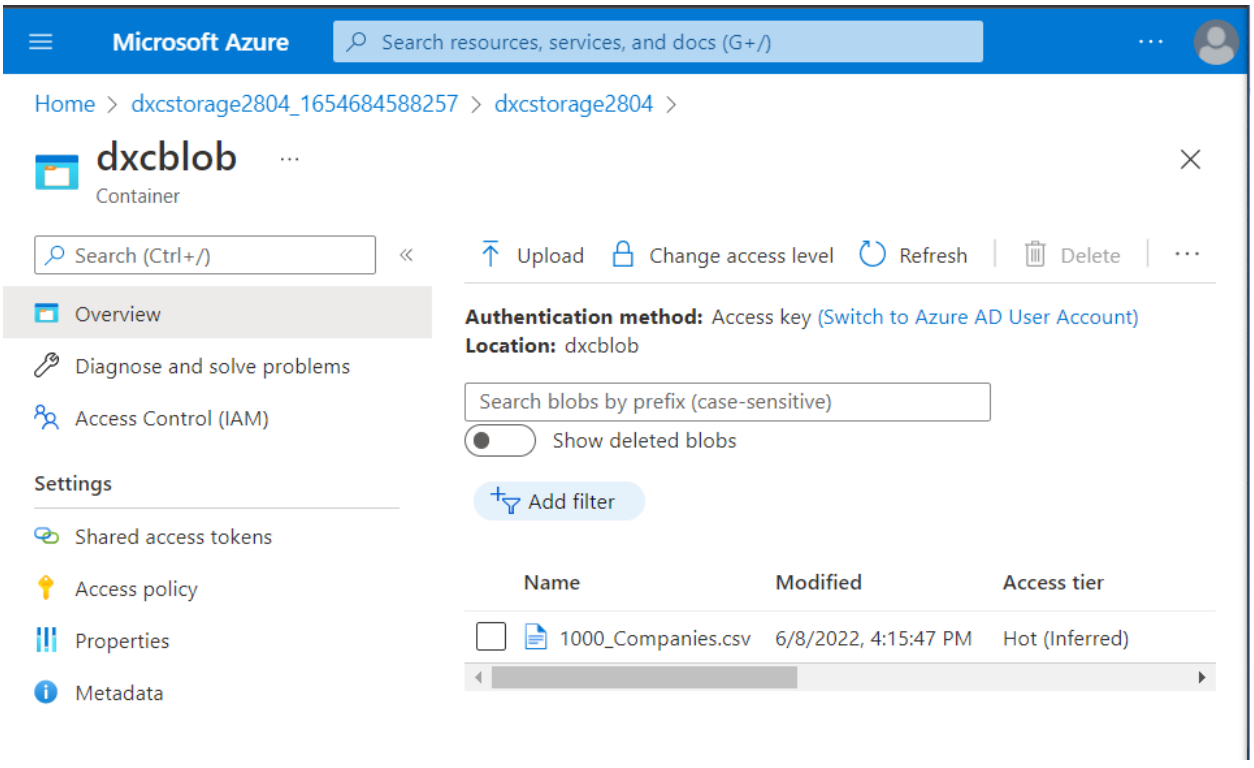



We get the dxcblob container storage click on it

We will get options to upload whatever file we need click on upload and select any file from the pc and upload




When we click on the dxcblob we get to find the file



**2)Explain the steps with screenshots how to create Virtual machine & how to connect from**

**(i) Local Computer - CMD method ?**

**(ii) Using Azure cloud Shell?**

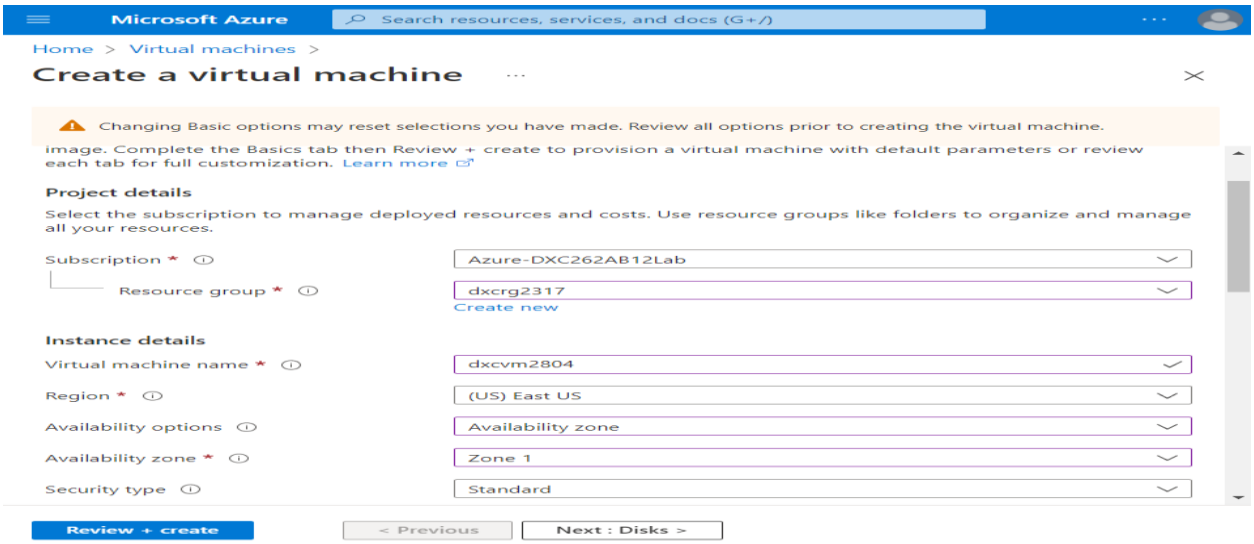
**(iii) Also using Azure Bastion ?**

In azure search virtual machine and click ok

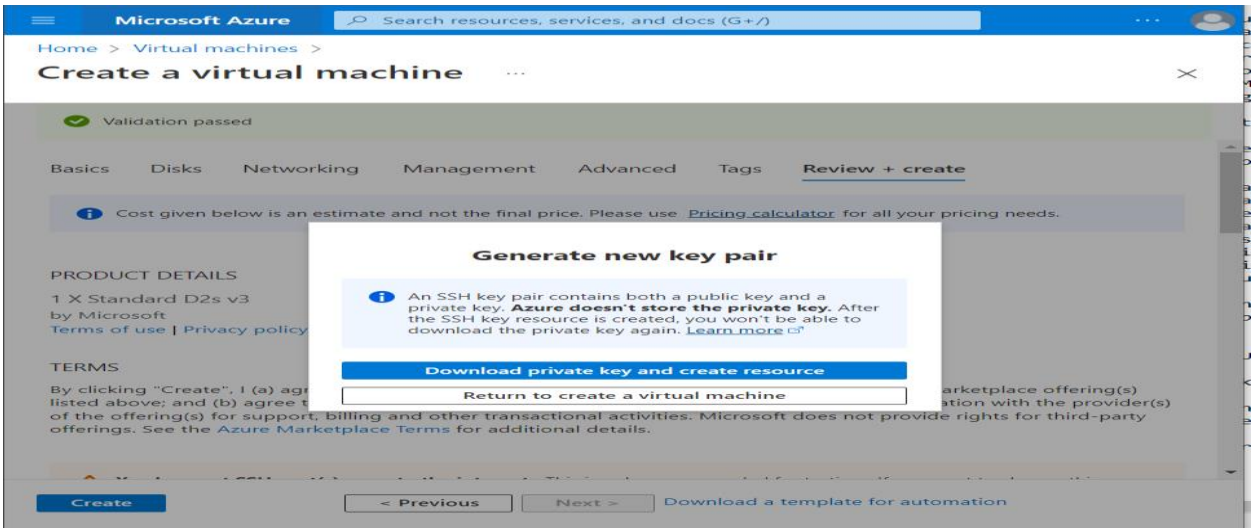
+ Create->Create azure virtual machine

Write the resource group and account name and availability zone-> zone 1

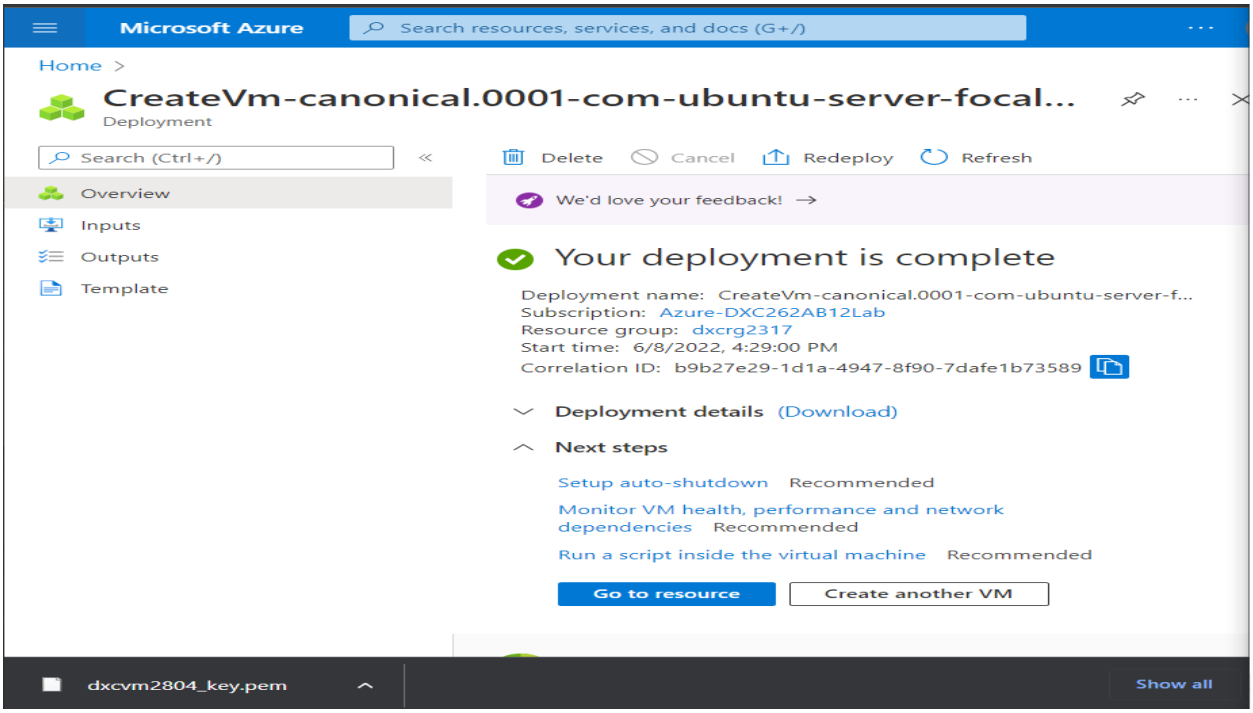
And all other are default and click next




Review + Create and click on create after validation passed click create we get generate new key pair download private key and create resource



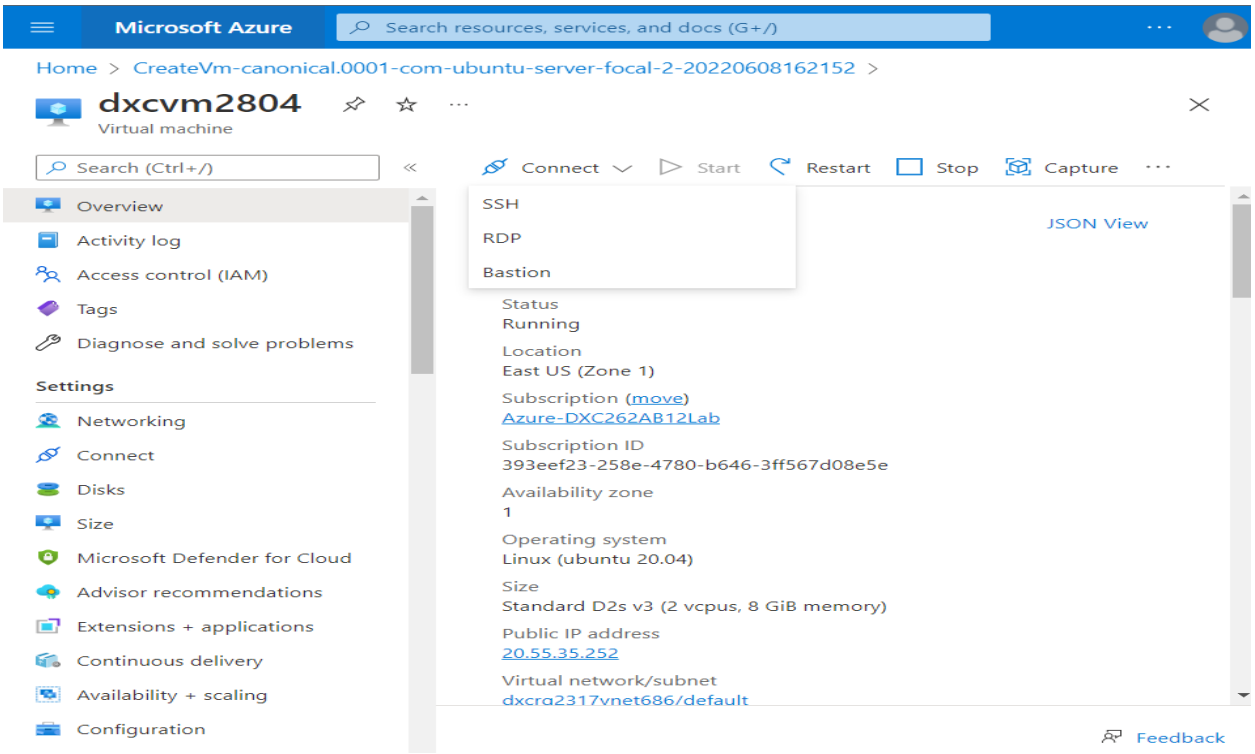
Now go to resources



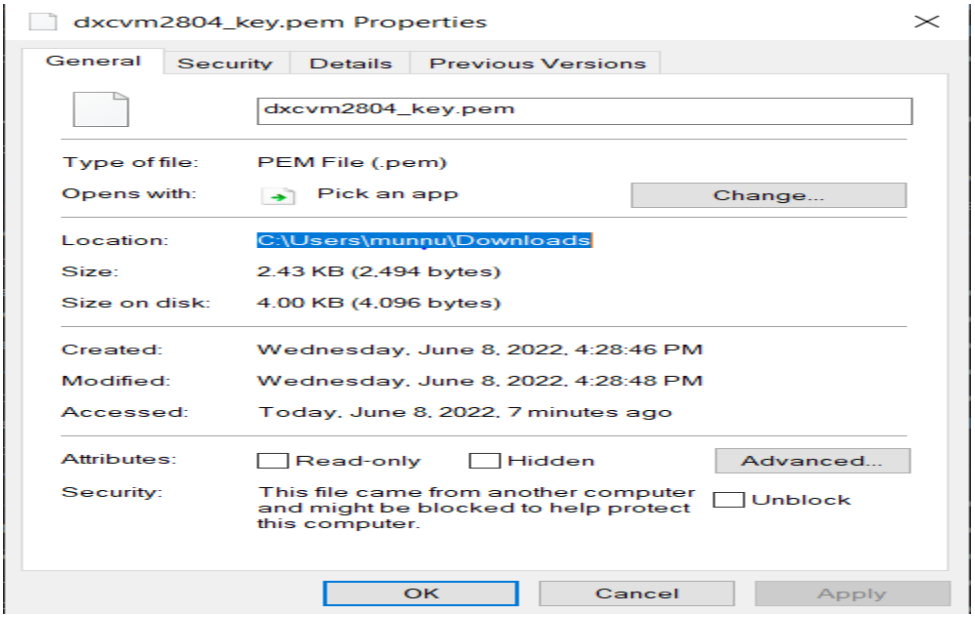

Connect->SSH

copy the 4th options and paste in notepad

ssh -i <private key path> azureuser@20.55.35.252



Open the properties of the downloaded file and copy the location




Open the command prompt and go to that location

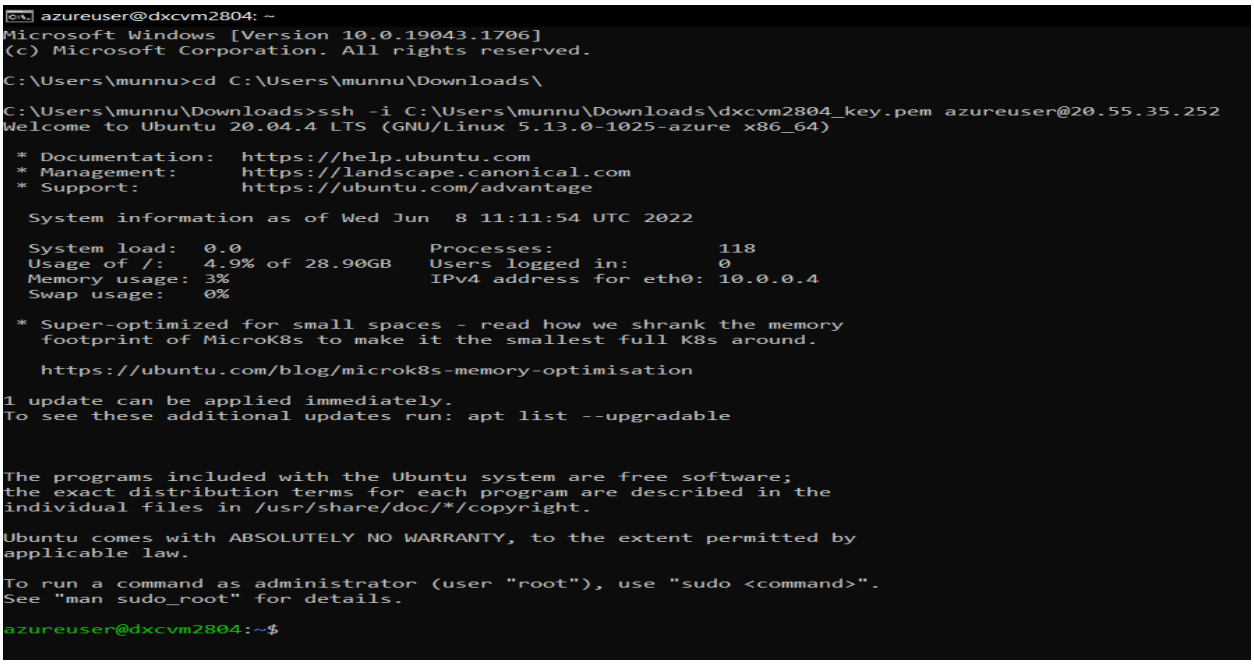
>cd C:\Users\munnu\Downloads\

>ssh -i C:\Users\munnu\Downloads\dxcvm2804_key.pem azureuser@20.55.35.252

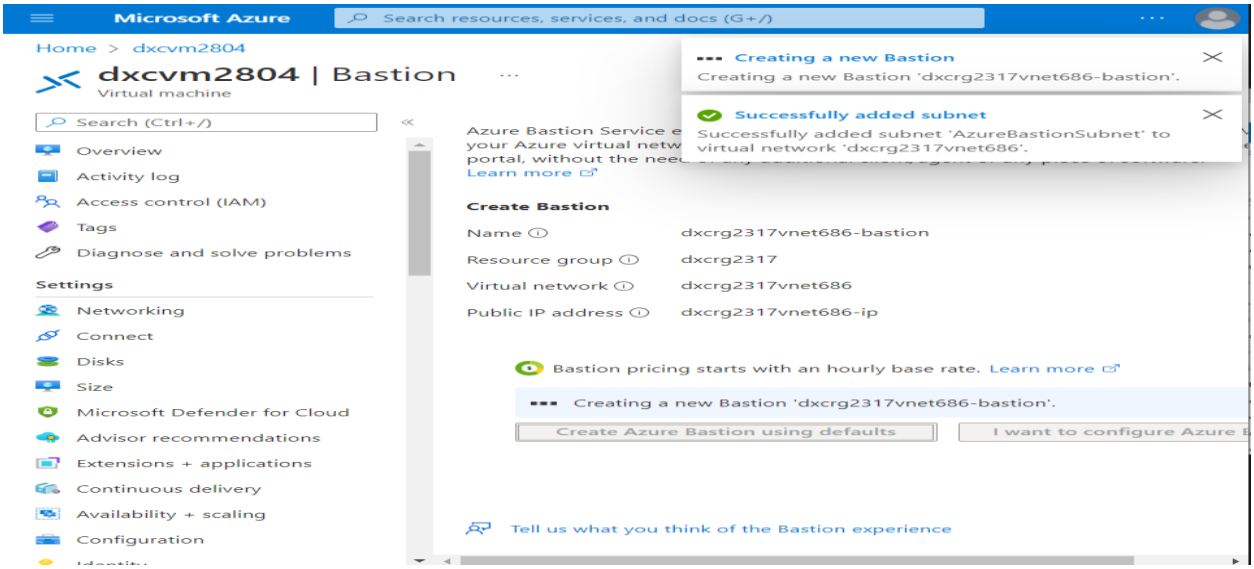
-then type yes

-we get

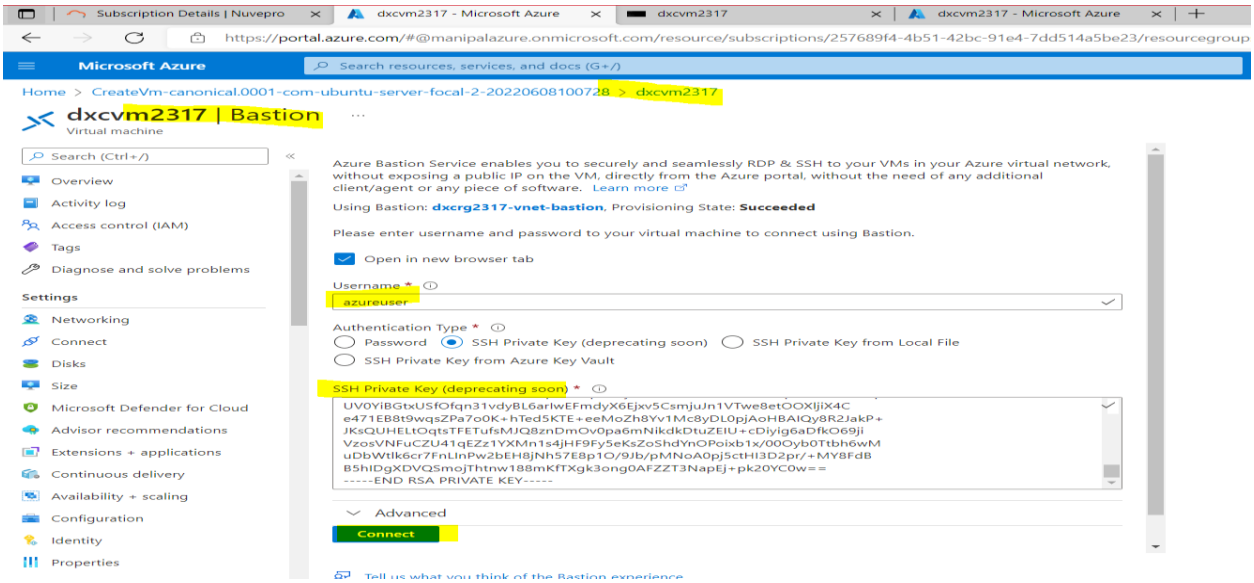
azureuser@dxcvm2804:$

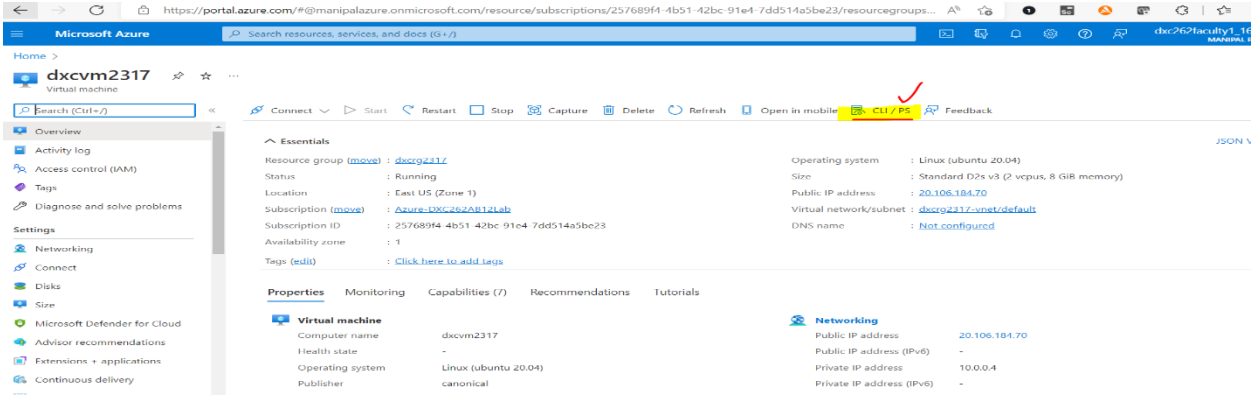


Using bastion after creating vm Connect->Bastion

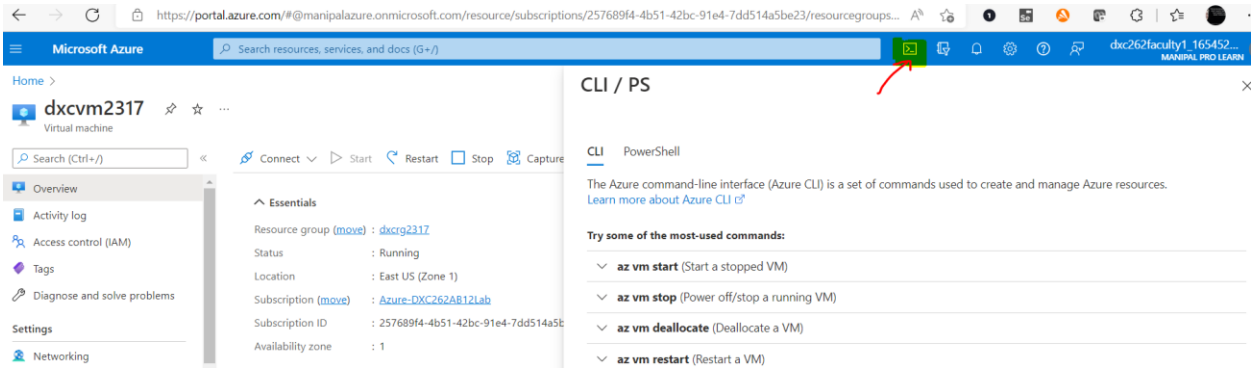


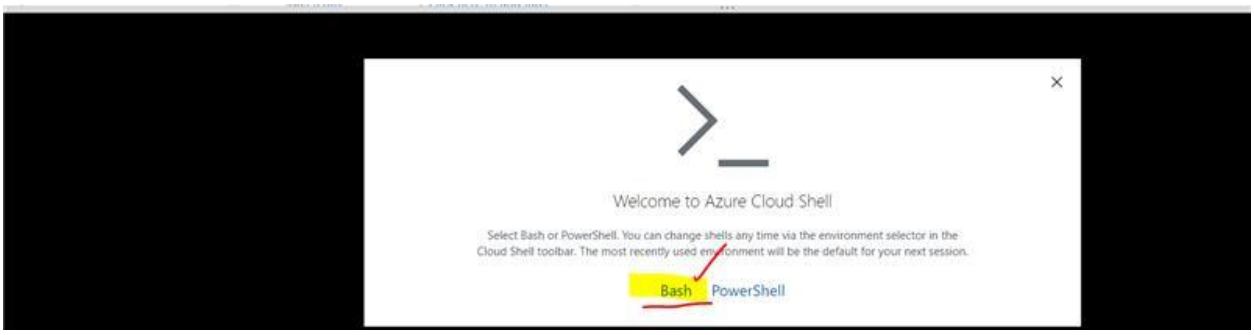

Give username



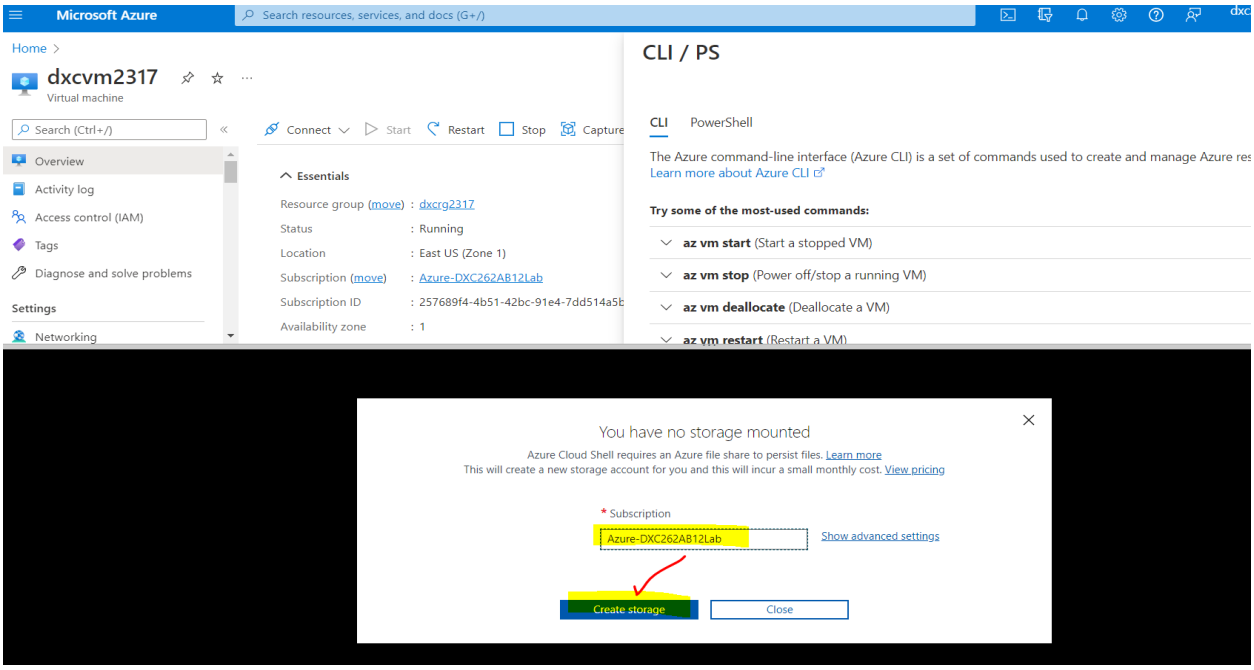



Go to CLI/PS and click the below symbol and select bash

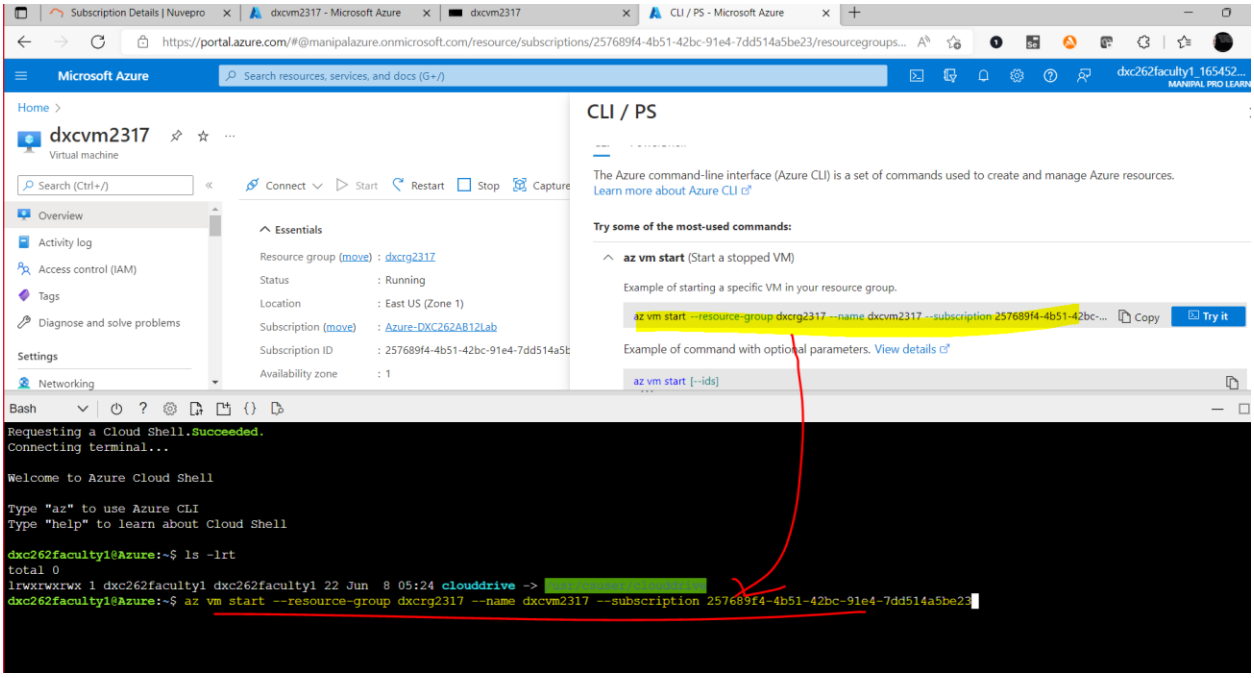


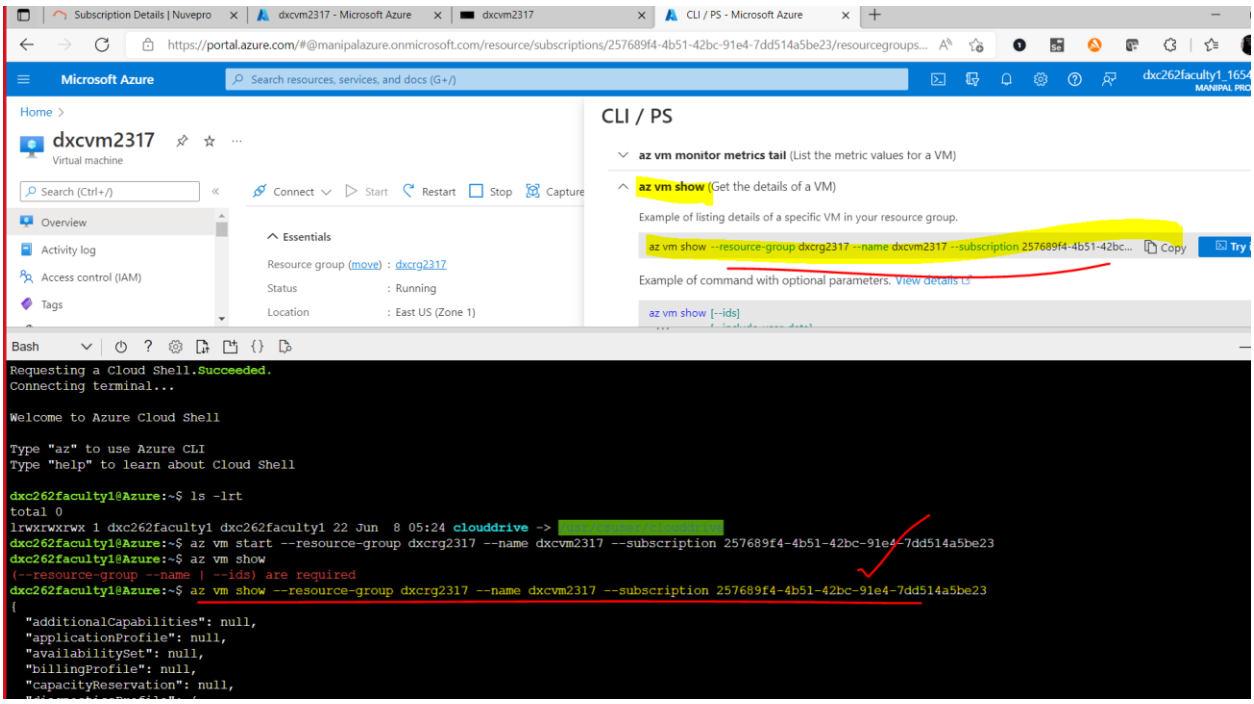




Create storage



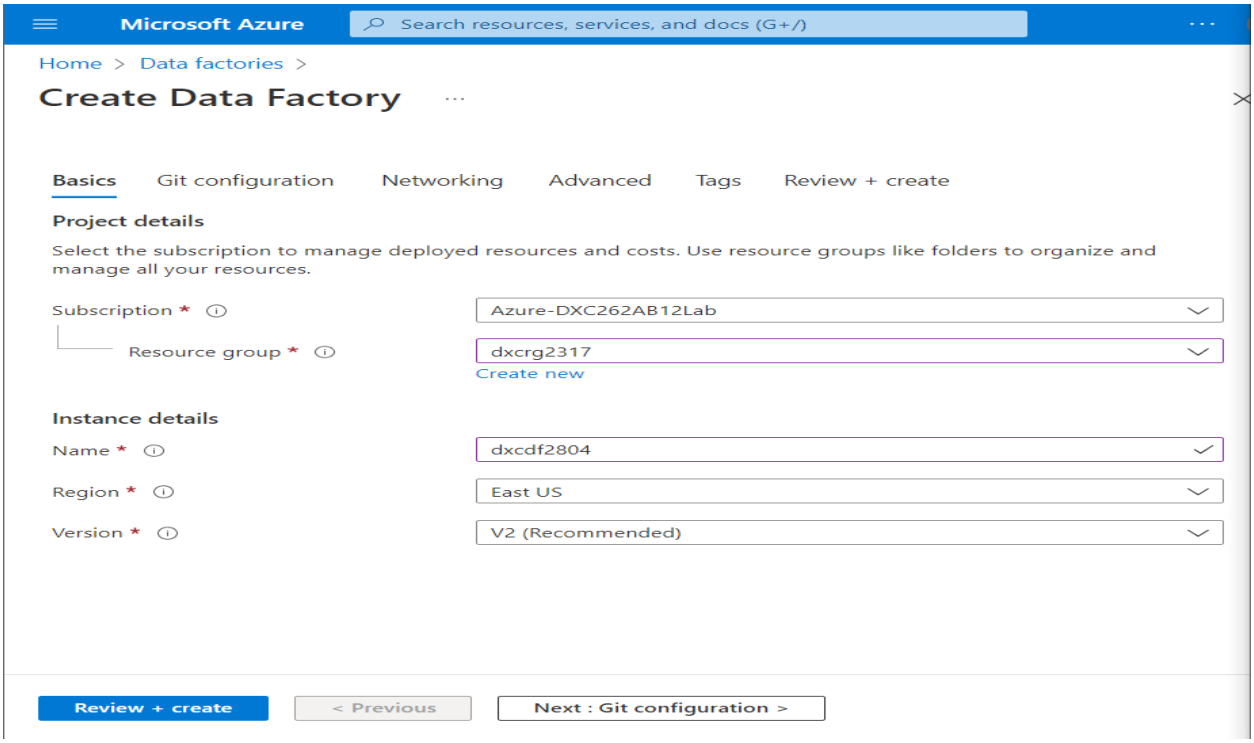
Run the commands to start



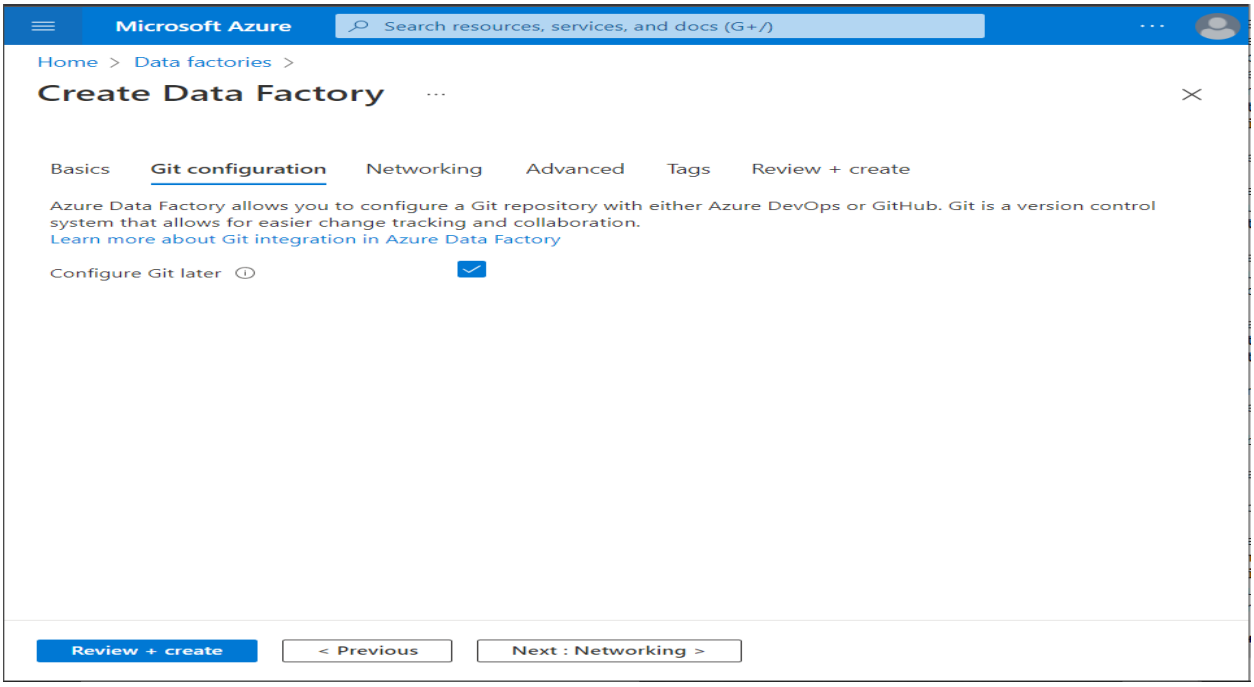



**3) Explain the steps with screenshots how to create Data factory?**

search data factory in azure and give resource group dxcrg2317 and name dxcdf2804

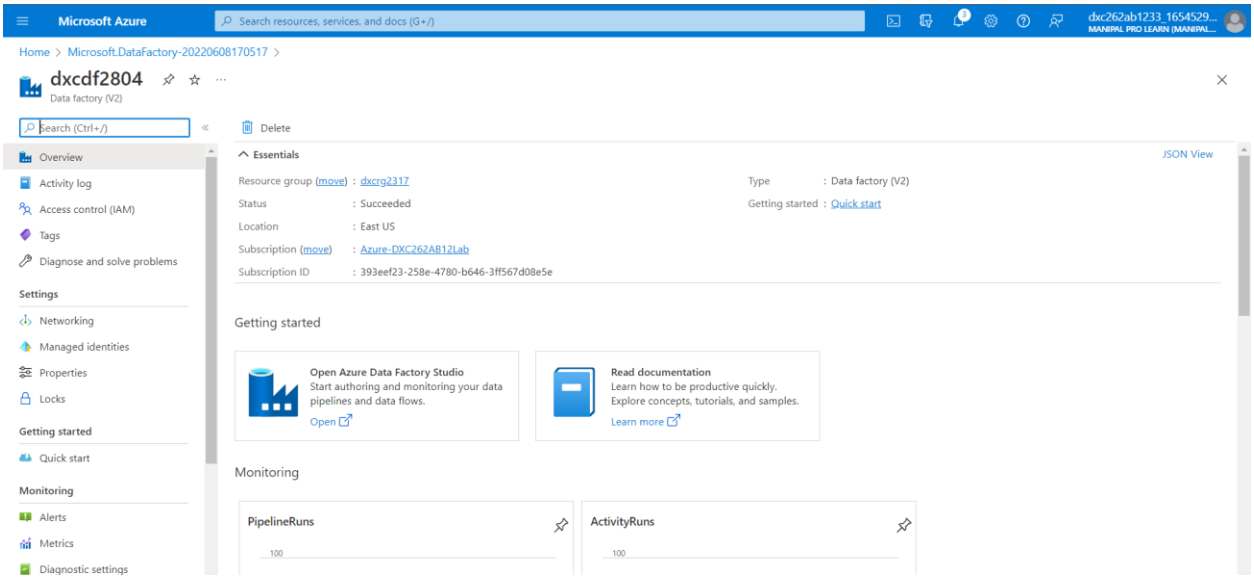



-git configure later check it and create



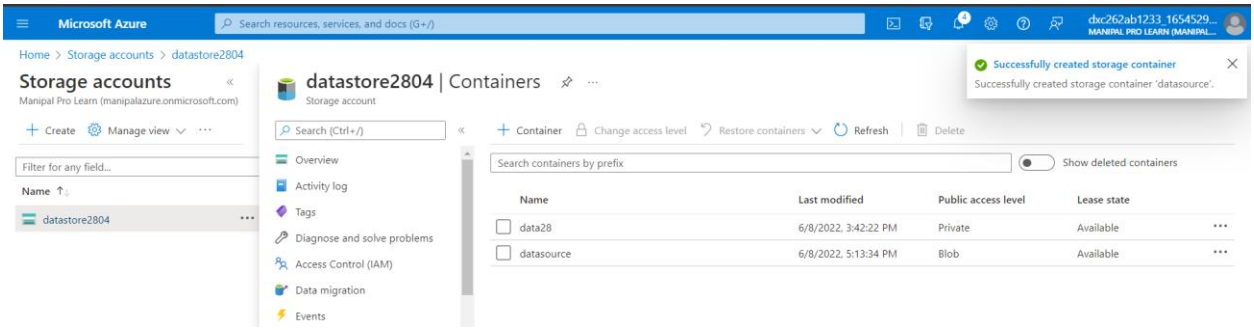

And others are default and review and create and go to resource after creating

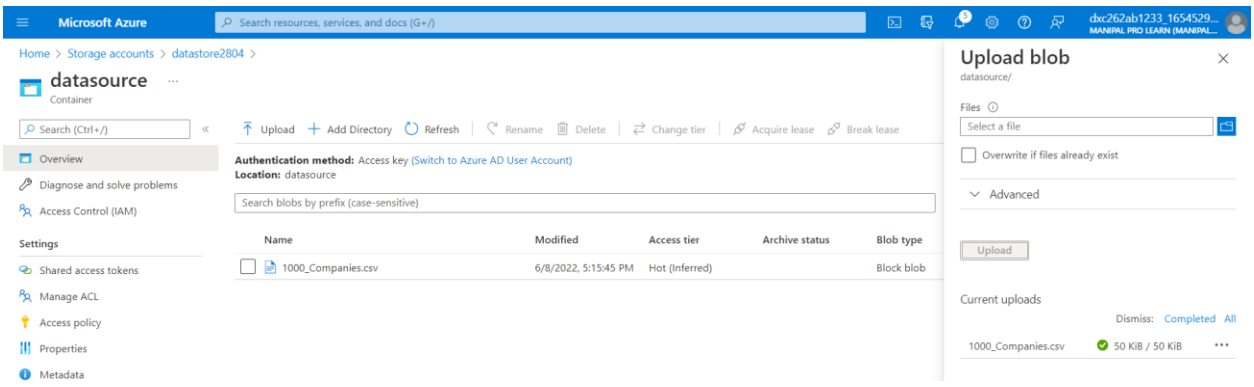
-get started go to azure data factory studio



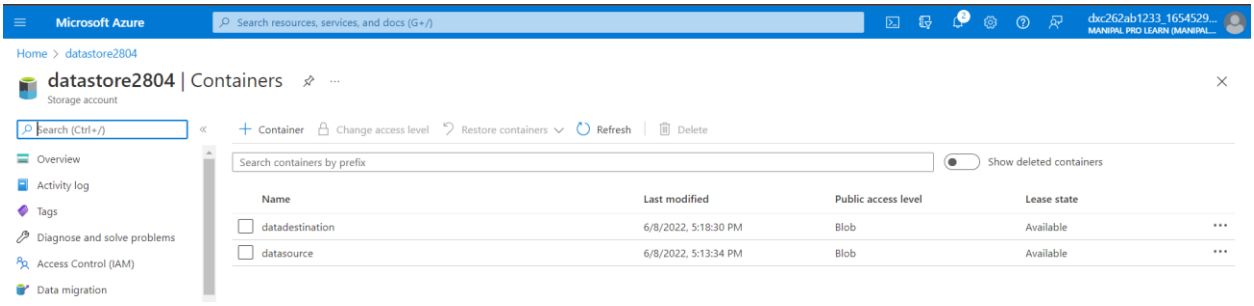

**4)Explain the steps with screenshots how to copy data from source blob to destination blob**

As we created the data factory keep it a side and create a storage account in that create 2 containers datasource and datadestination



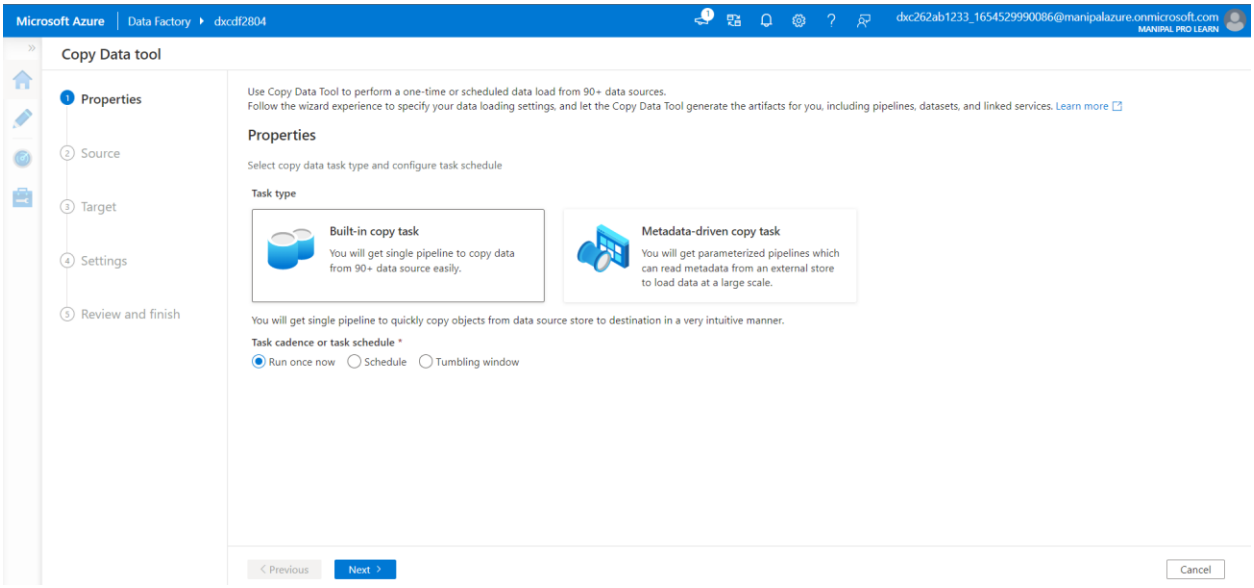



In datasource upload a file of any type but don’t upload any file in the datadestination



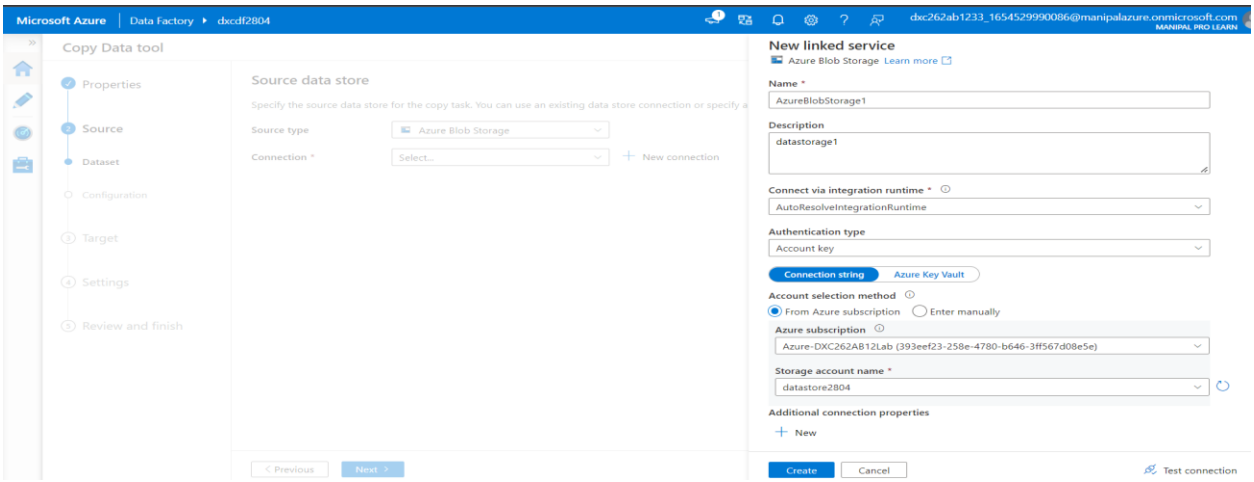

come to data factory and click on ingest option

-click on build in copy task and next




-source type is Azure blob storage

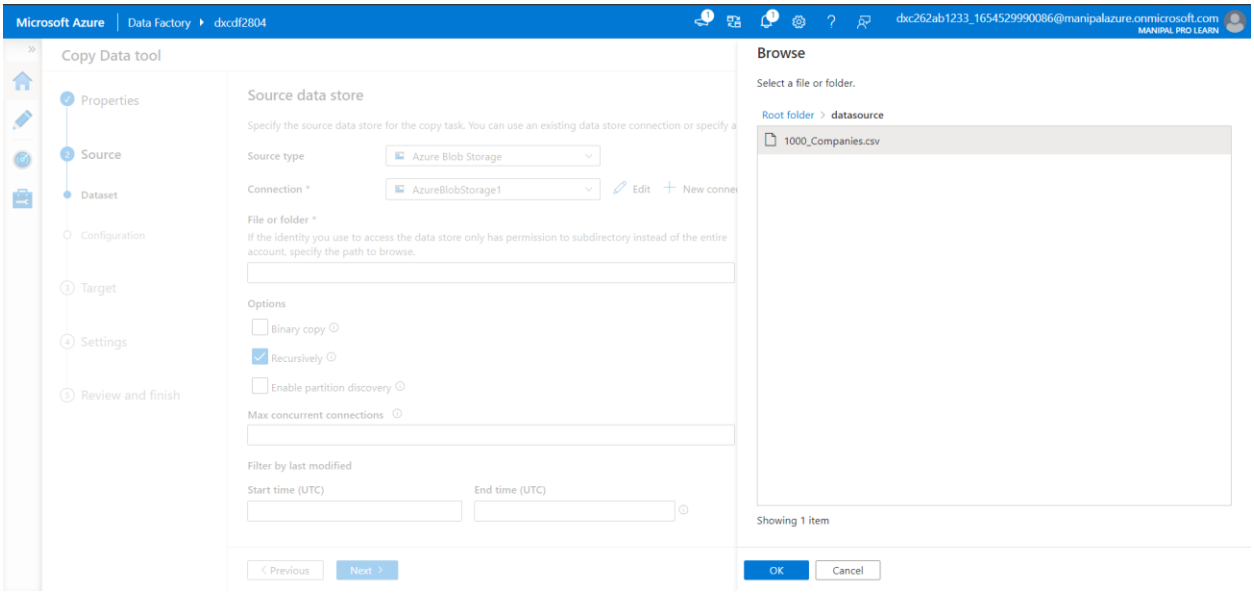
-connection new description:AazureblobStorage1 and create



-we will come to Source data store

in file or folder browse and select datasource/1000_companies data and ok

-next



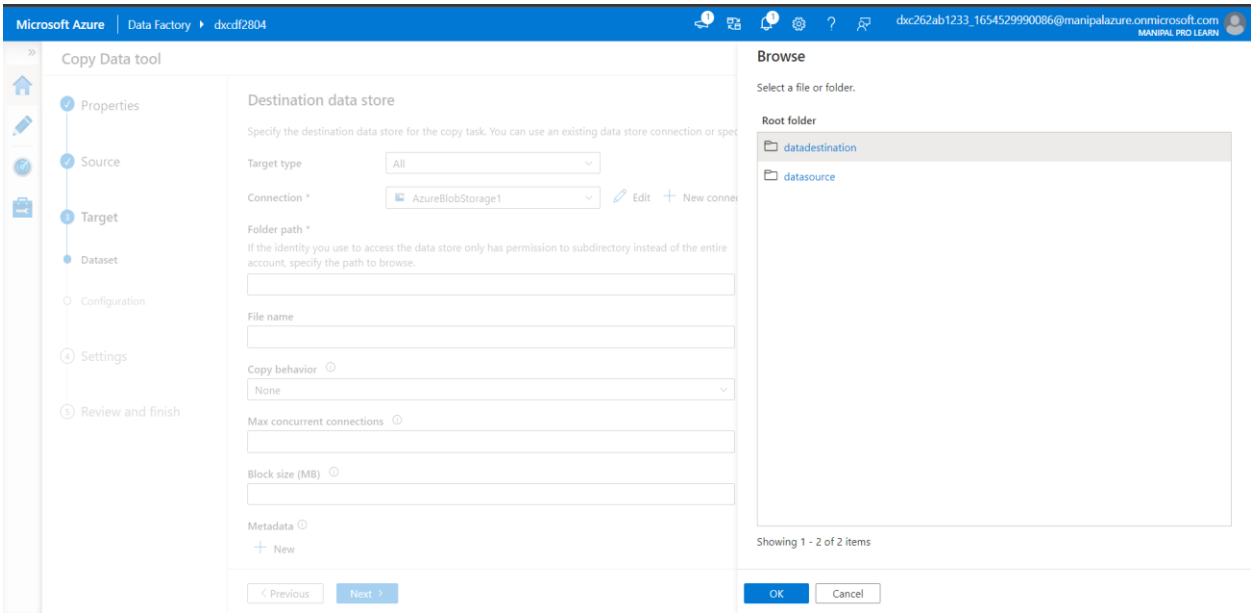

Same for destination as well

destination data store

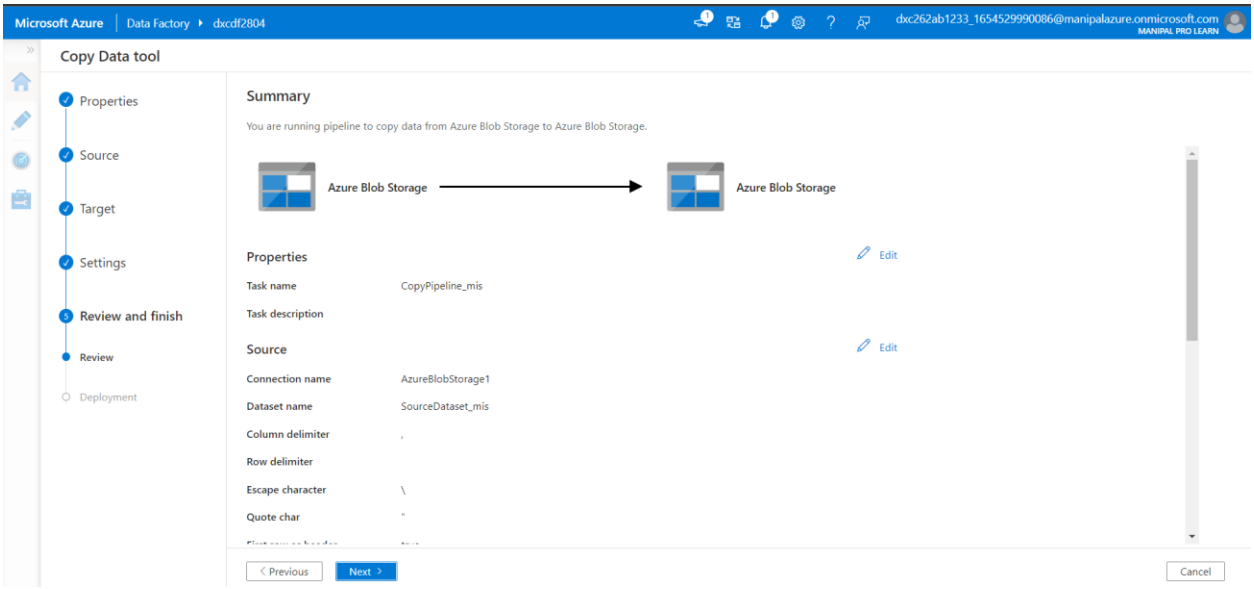
select the destinationblob1

in file or folder browse and select datadestination and ok

-next we will go to File format setting every thing is default and next



-next settings next, summary next so it will copy my files to datasource to datadestination

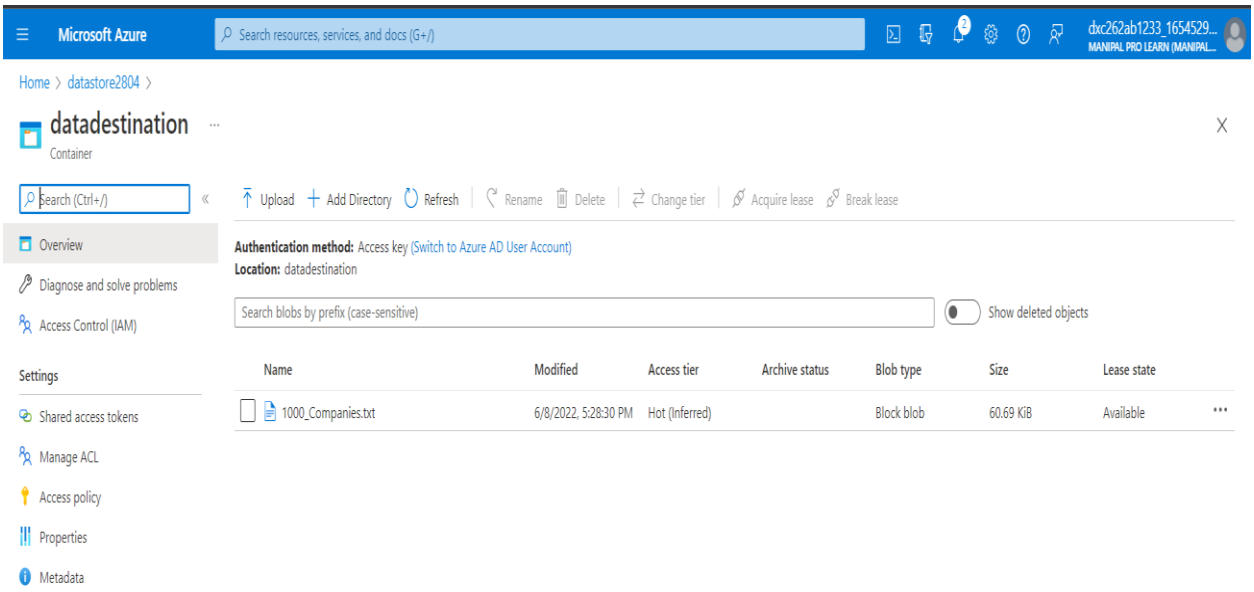



-validation and finish

we have to go to dxcstorage2804 in that

-we need to open the datadestination the file is copied in it

-this is happened because of the data factory

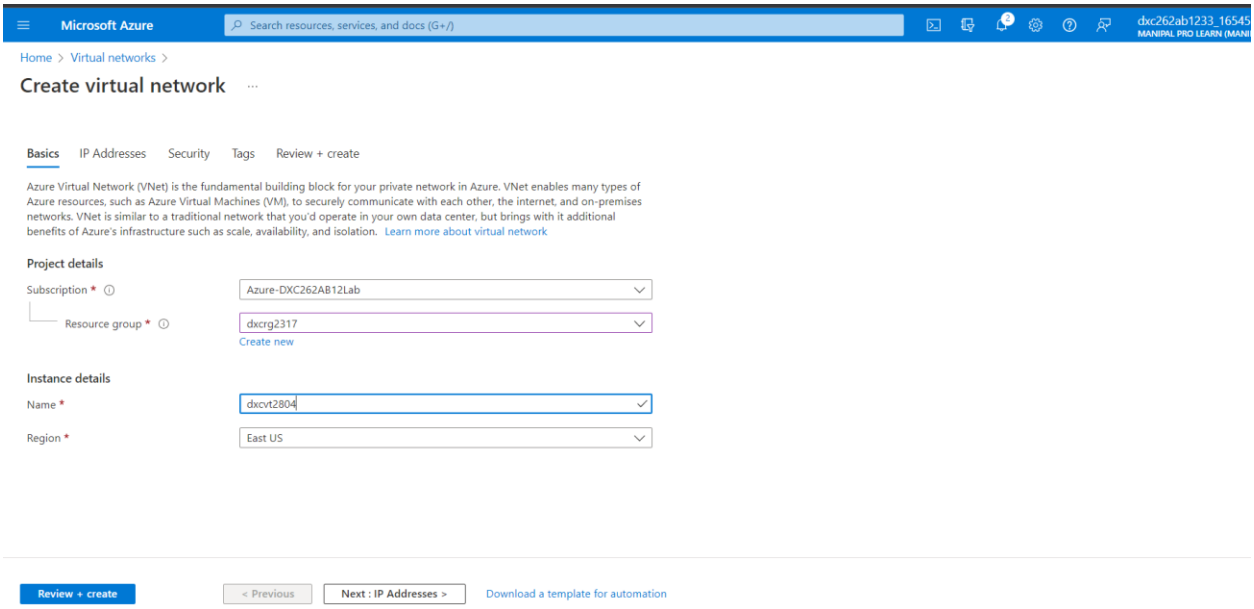


5) Explain the steps with screenshots how to create Virtual Network in Azure

go to azure search vnet select virtual network

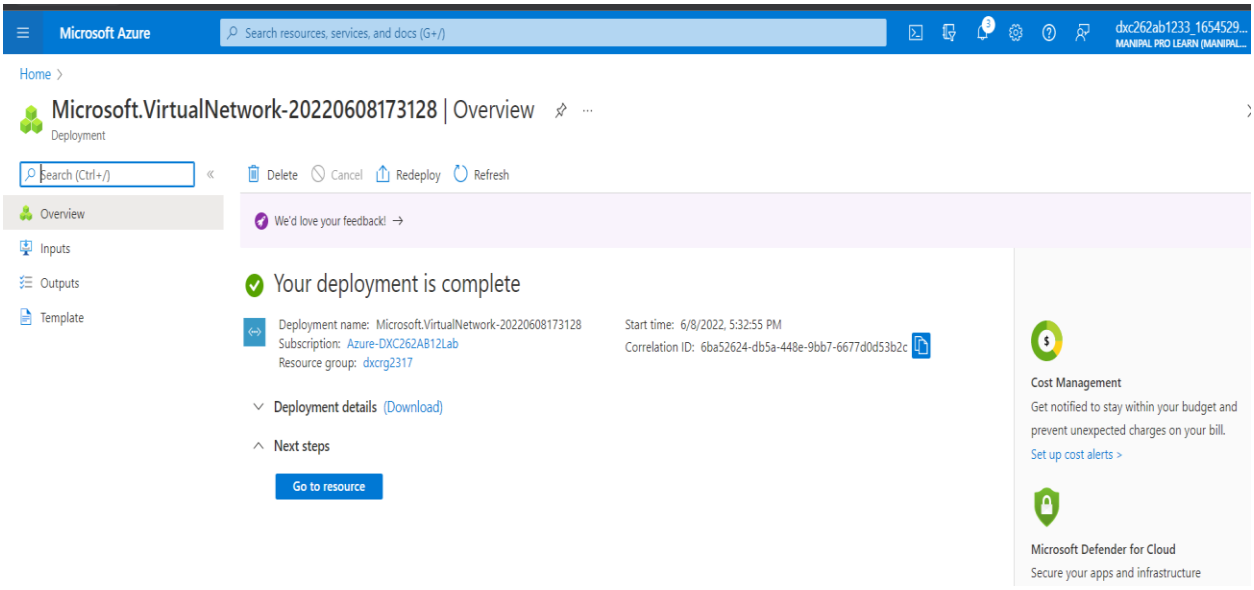
-create

-resource group -dxcrg2317 and name as dxcvnet2804 and ip address default and all next

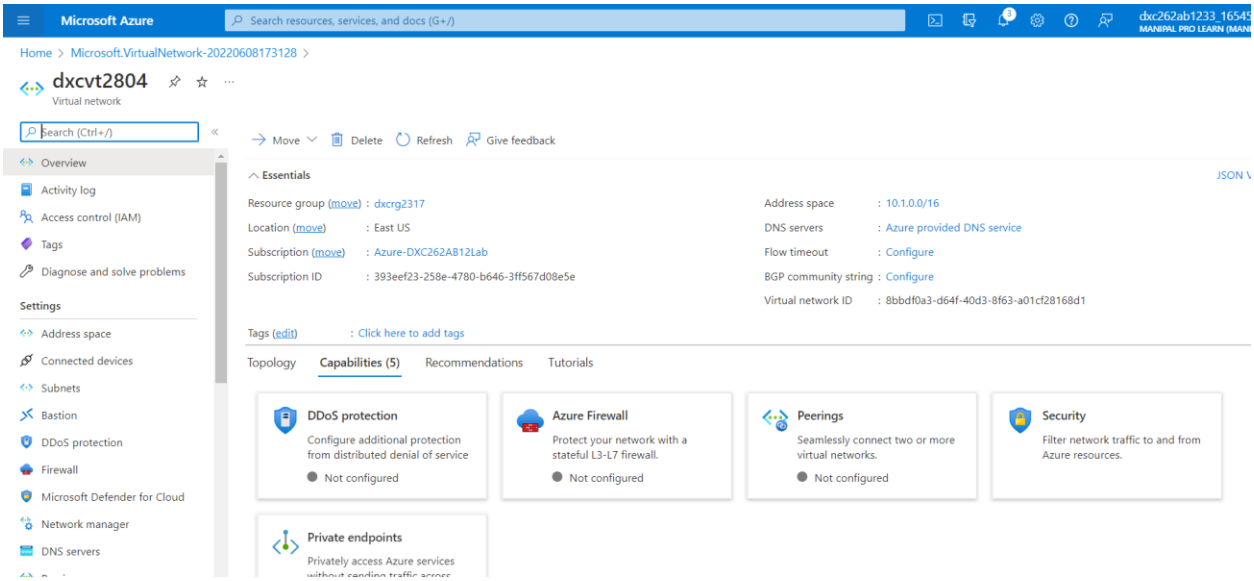



-create

-we get your deployment is complete

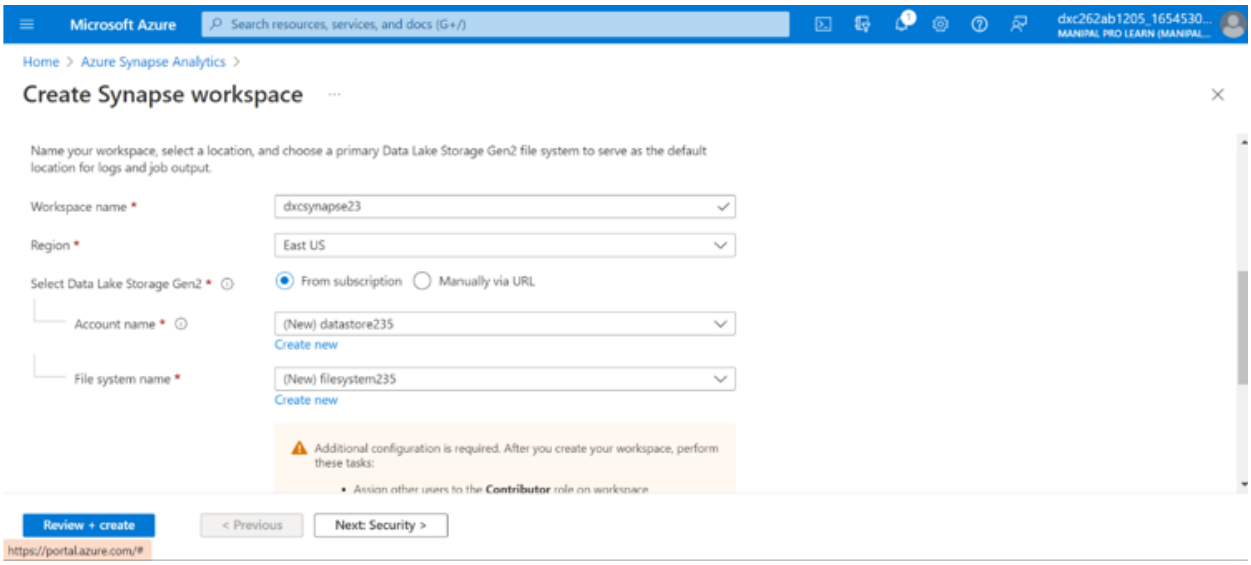


-go to resources

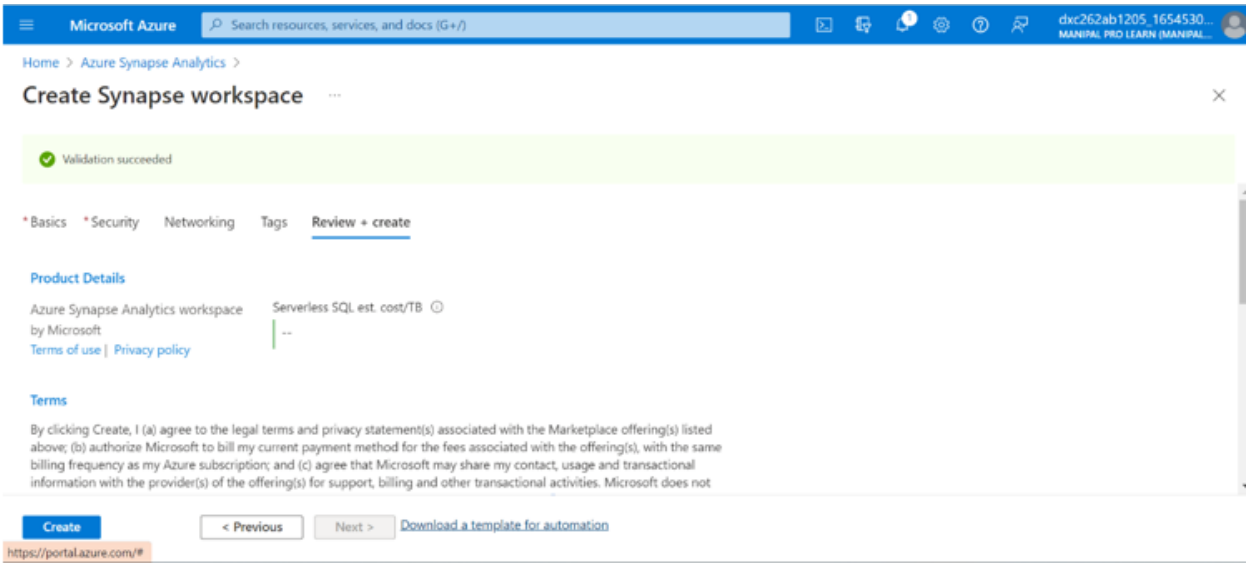



## 6) Explain the steps with screenshots how to create azure synapse analytics?

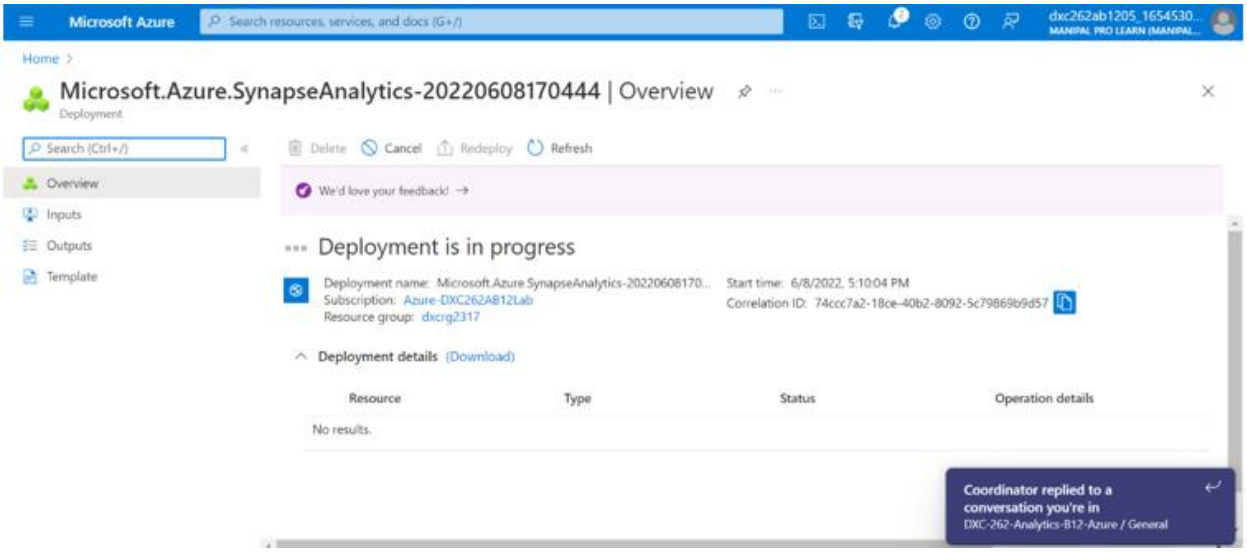
First we need to go to Azure and search for synapse analytics select it and + create



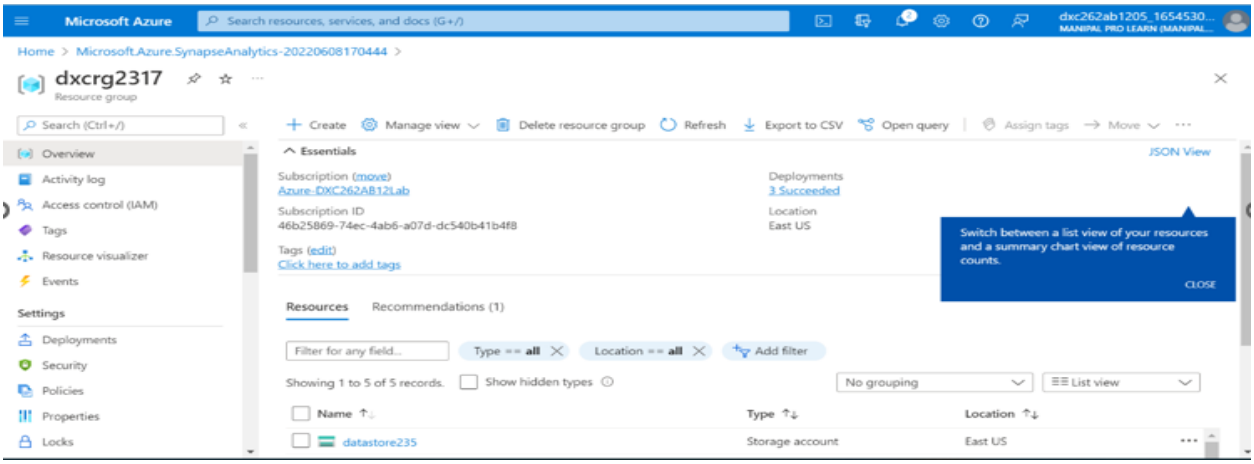

Give the workspace name dxcsynapse23, storage account name-datastore235 and filesystem name as filesystem235




All are default and create after validation



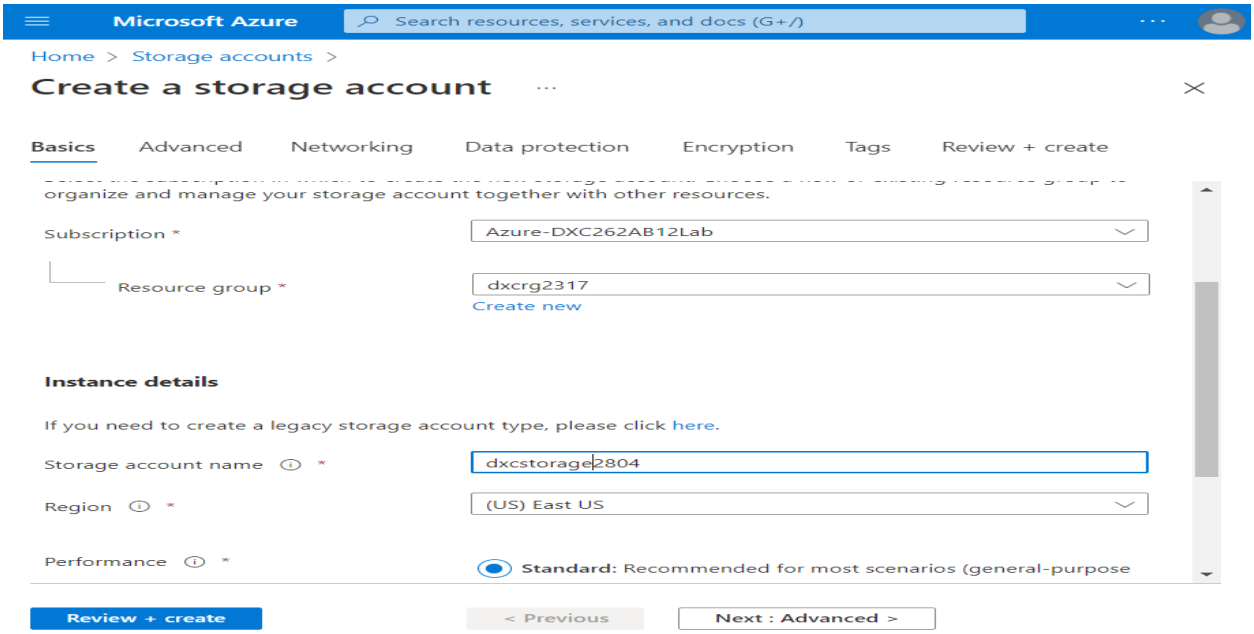

After that we get Deployment is complete and go to resource creating a synapse analytics is done



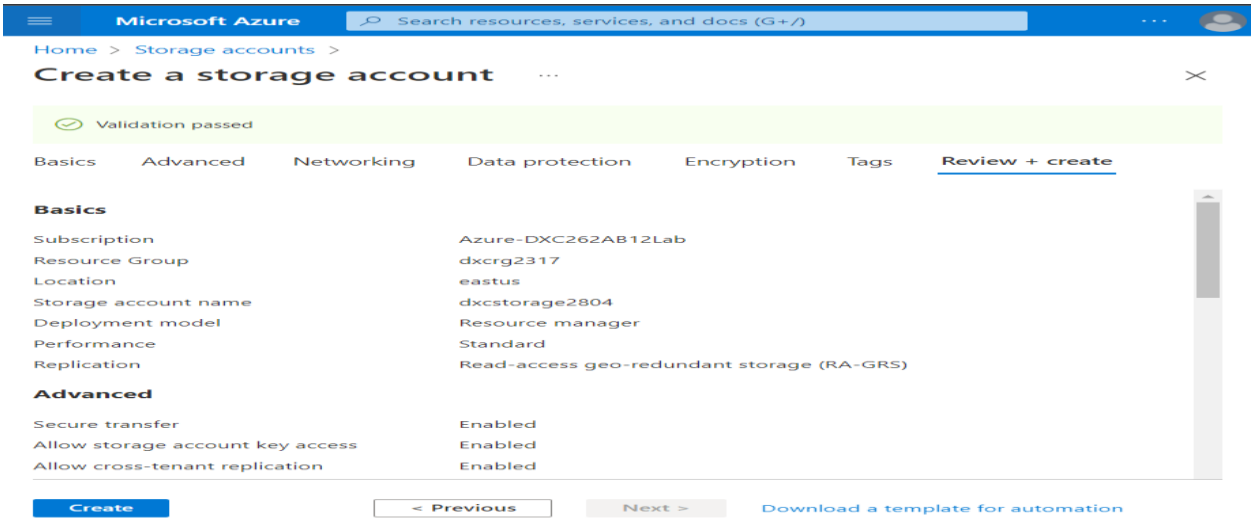
**7)Explain the steps with screenshots how to create Azure storage account?**

First we need to go to Azure and search for storage accounts and click on create

Give the resource group name dxcrg2317 and storage account name as dxcstorage2804

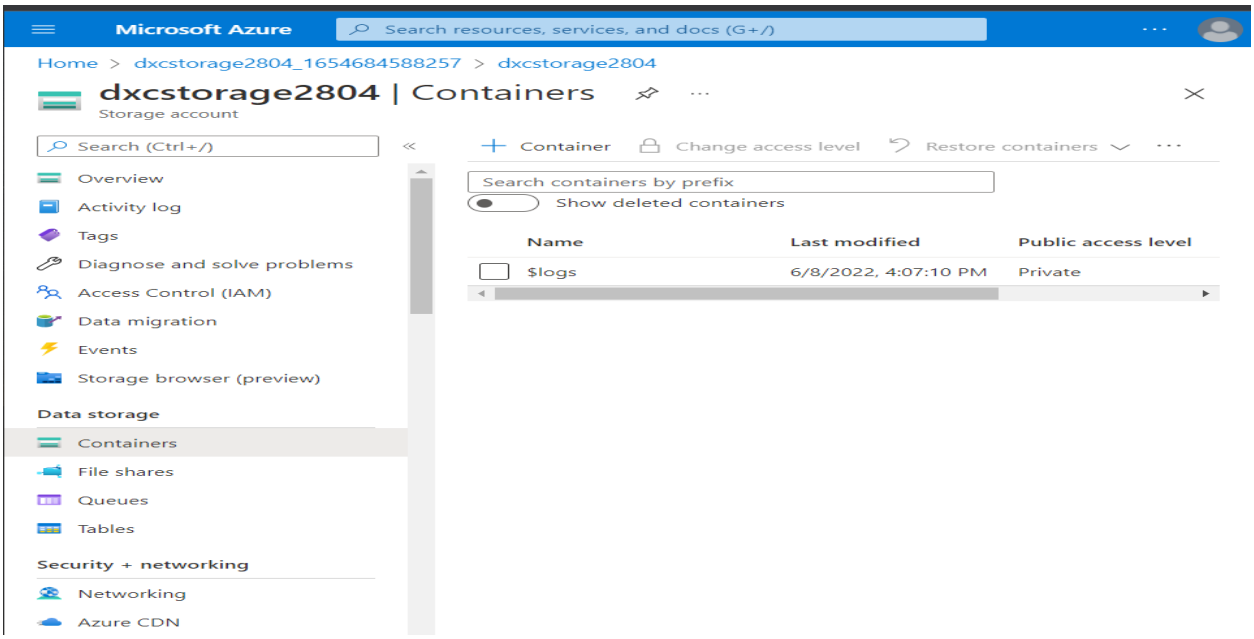



Keep all default advanced, Networking and keep on clicking next and click Review + create, We get validation to create

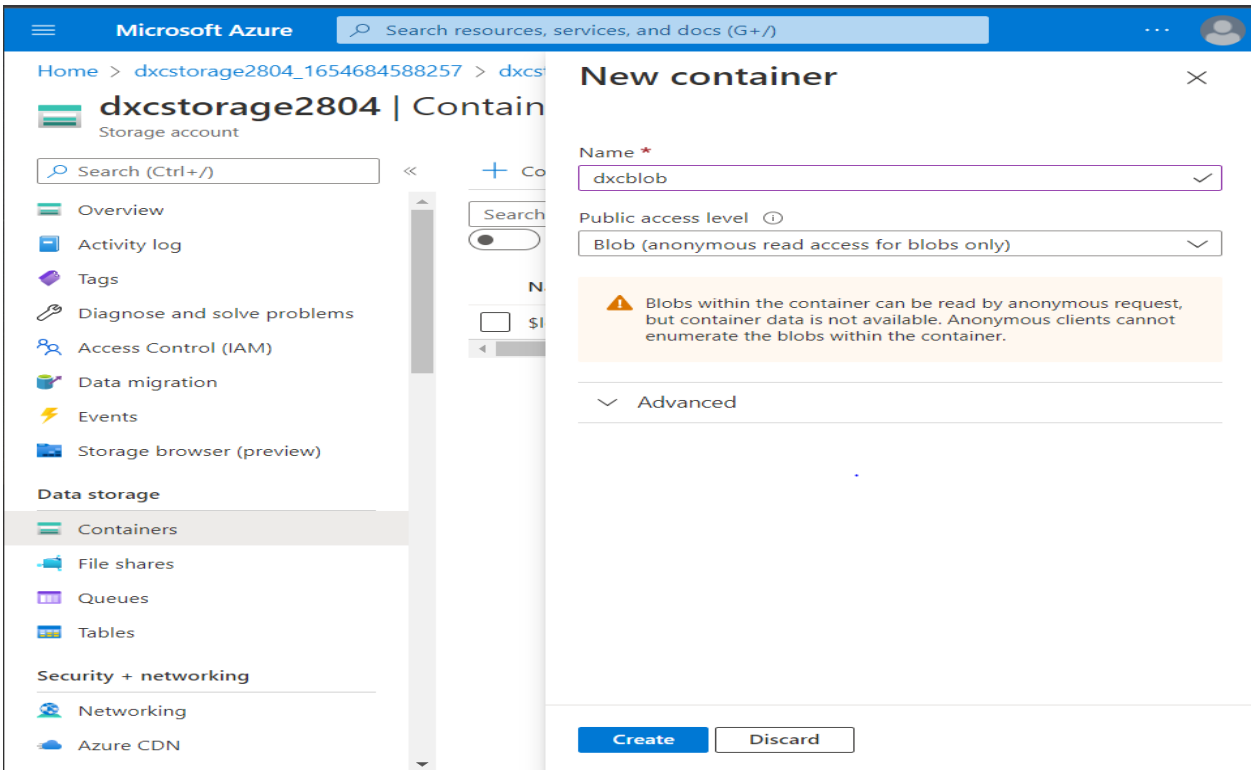


**8) Explain the steps with screenshots how to create upload data into Azure Blobs?**

After that we will get Your Deployment is complete and go to Resource in that Click on Containers-> + Container

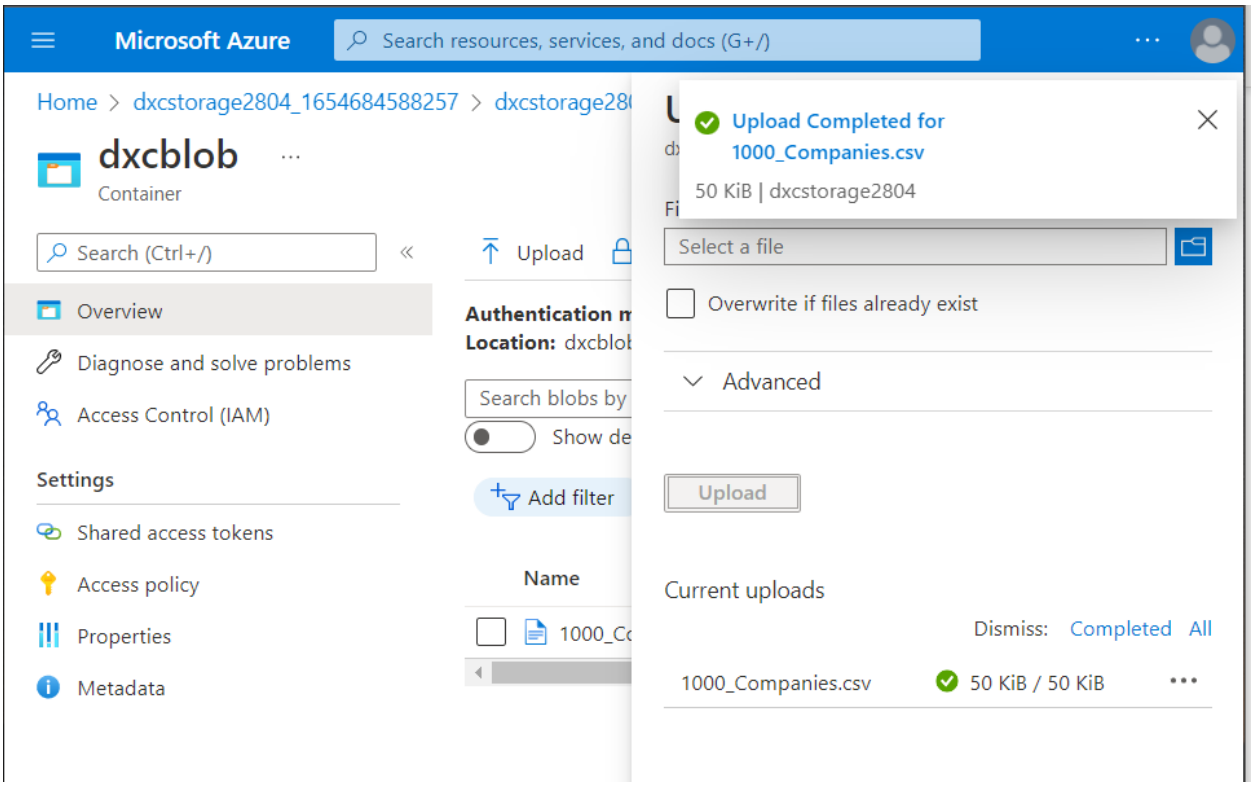



After that give the name of the container dxcblob and Public access level as Blob and Create

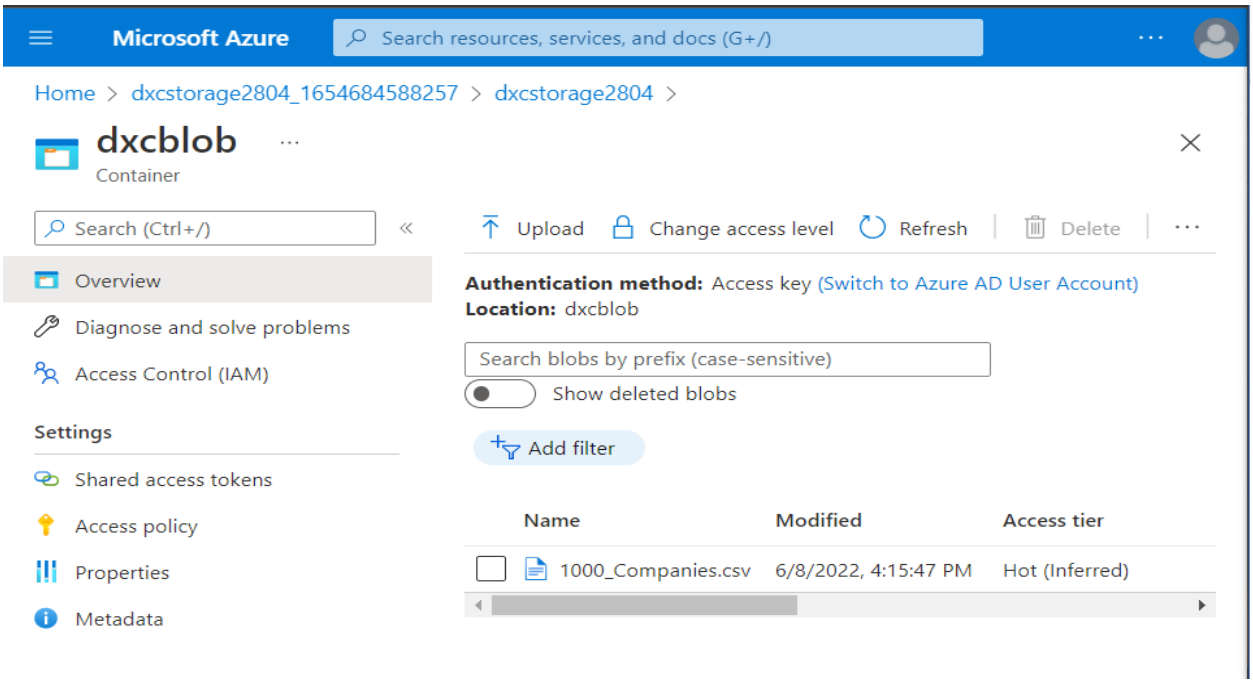



We get the dxcblob container storage click on it

We will get options to upload whatever file we need click on upload and select any file from the pc and upload

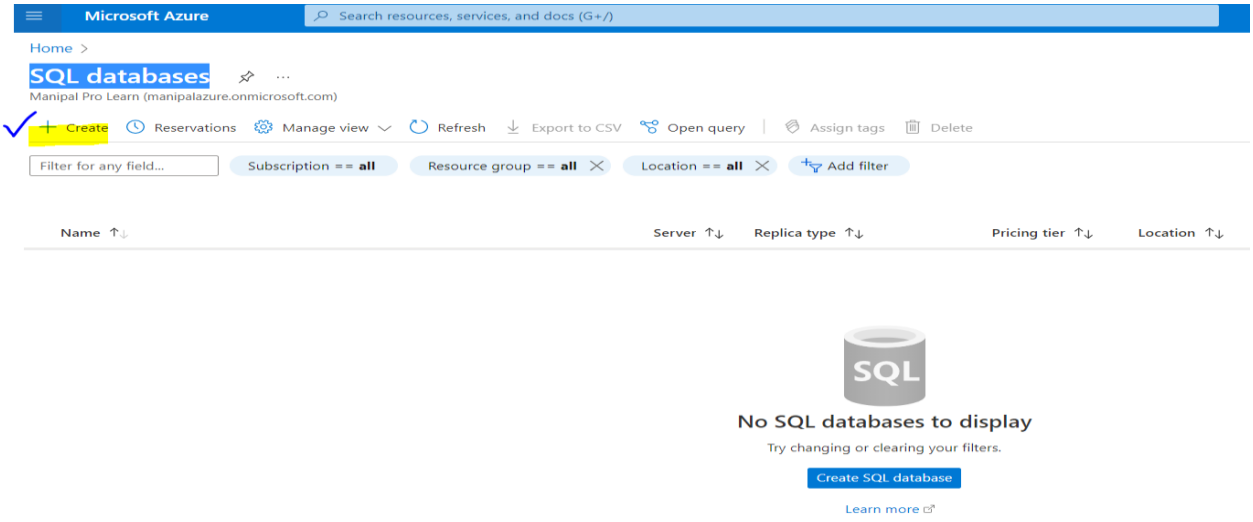



When we click on the dxcblob we get to find the file

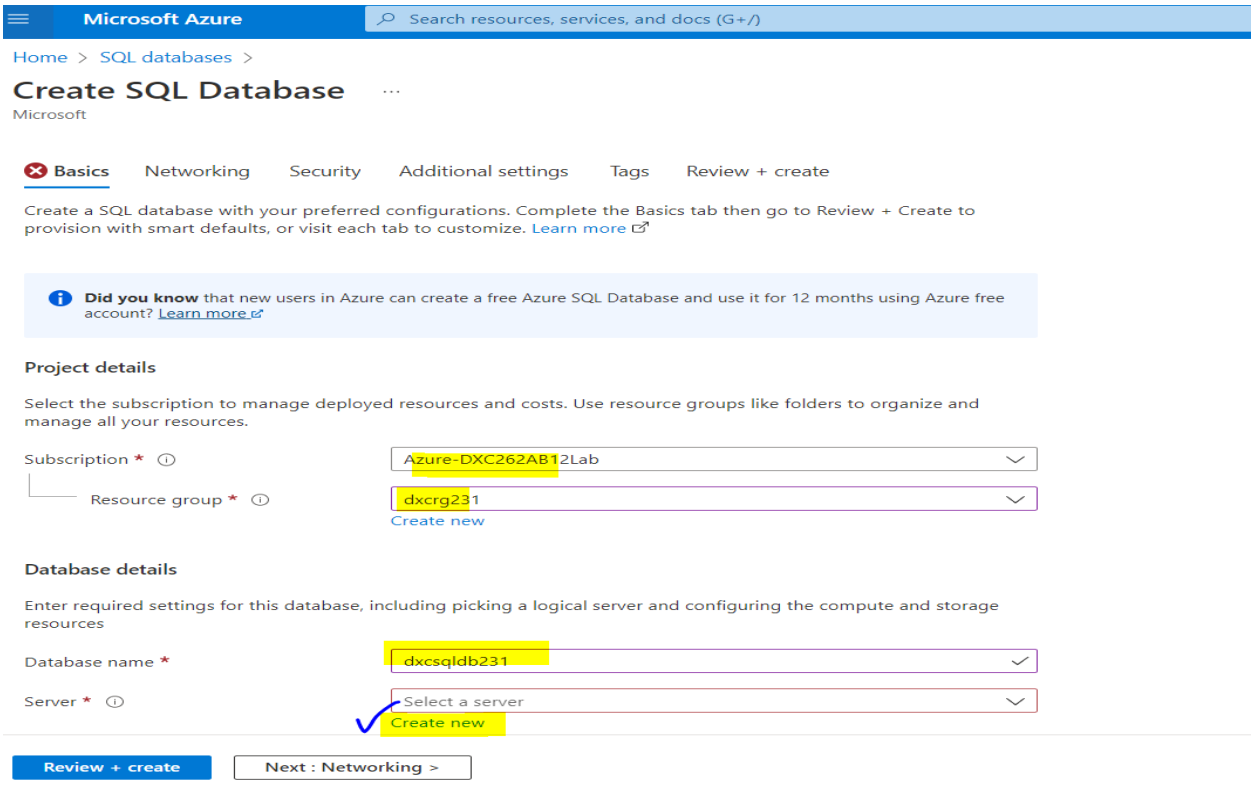


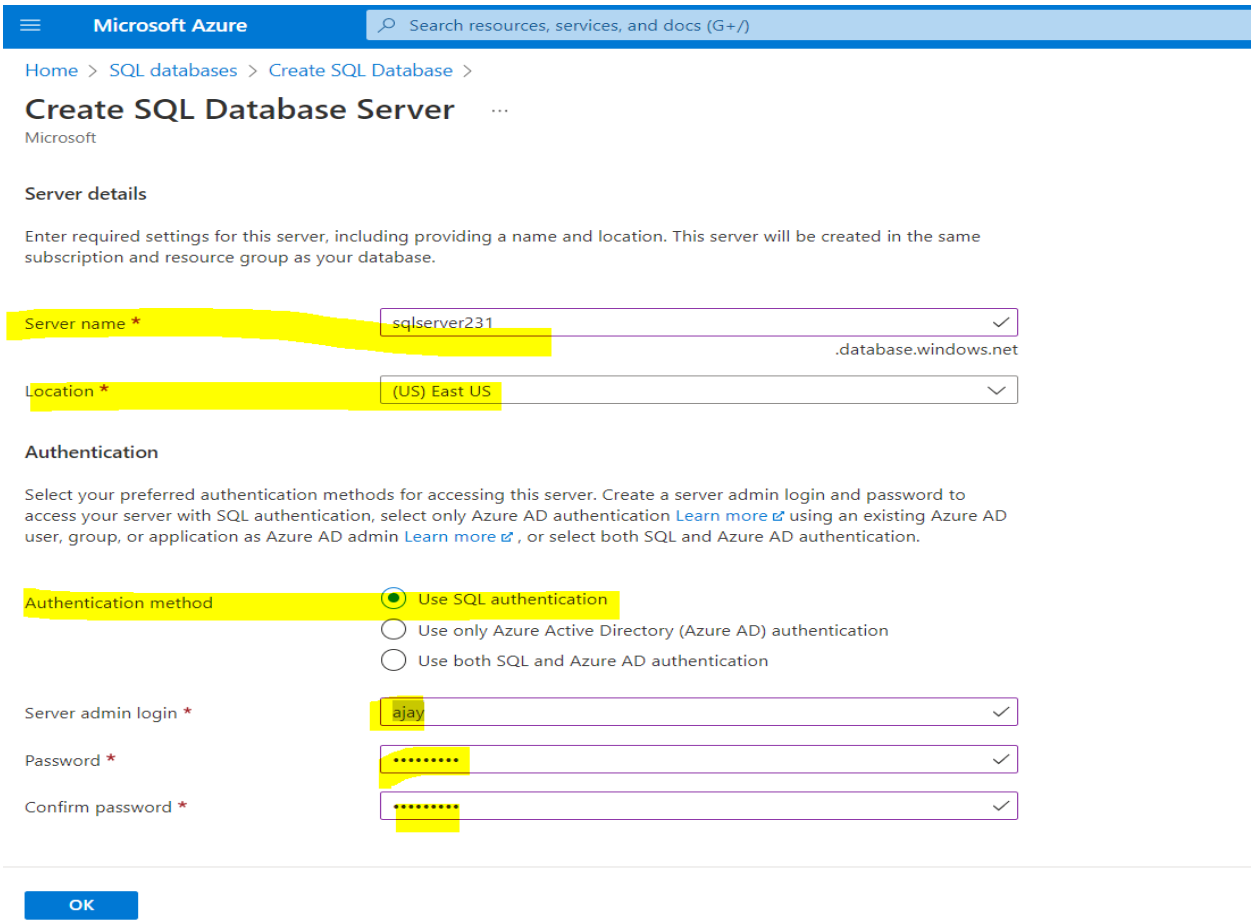
**9) Explain the steps with screenshots how to create connect SQL Database in Azure?**

-First search the sql database and then we will get the home page like the below one



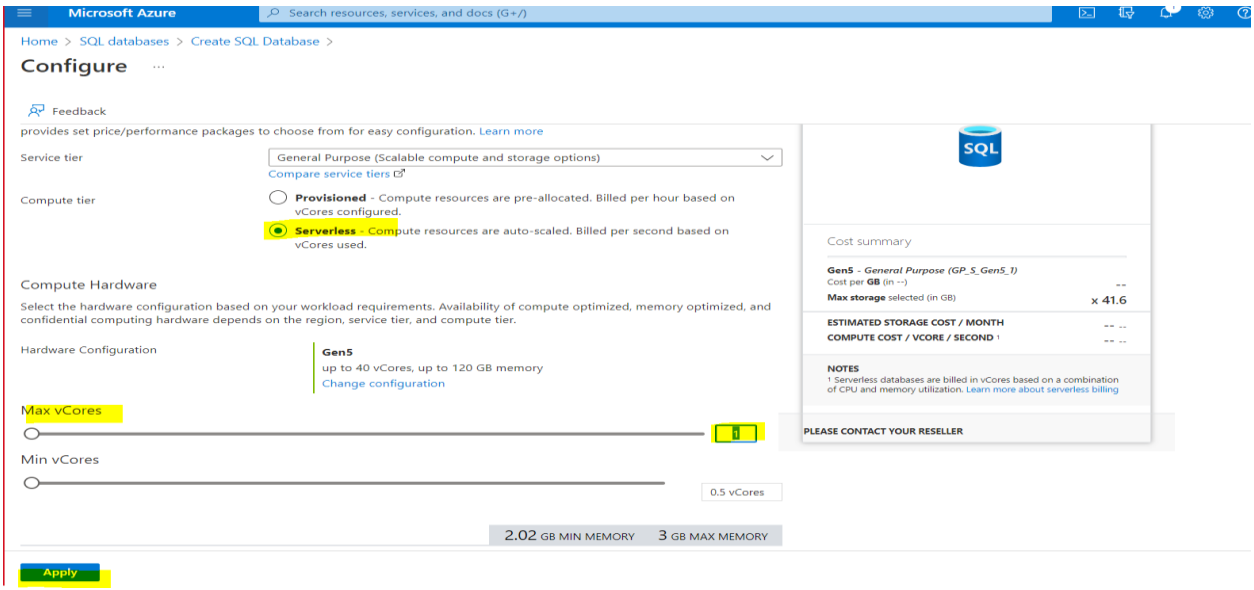

-Click on Create option we will go to the basics where we will give the details



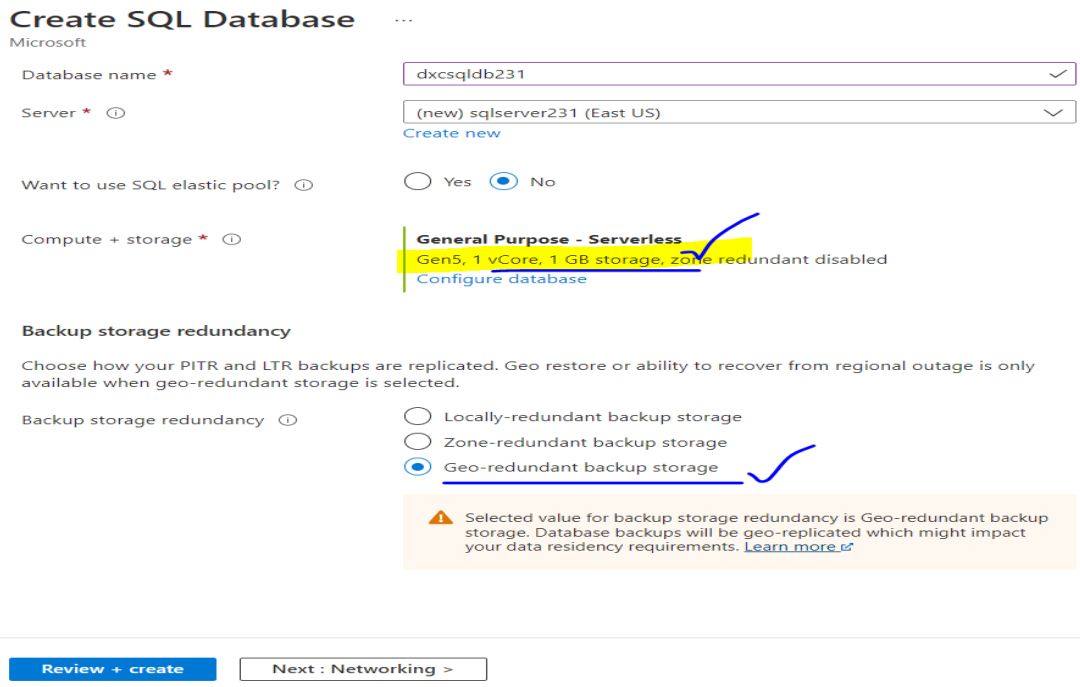



-give server name and location

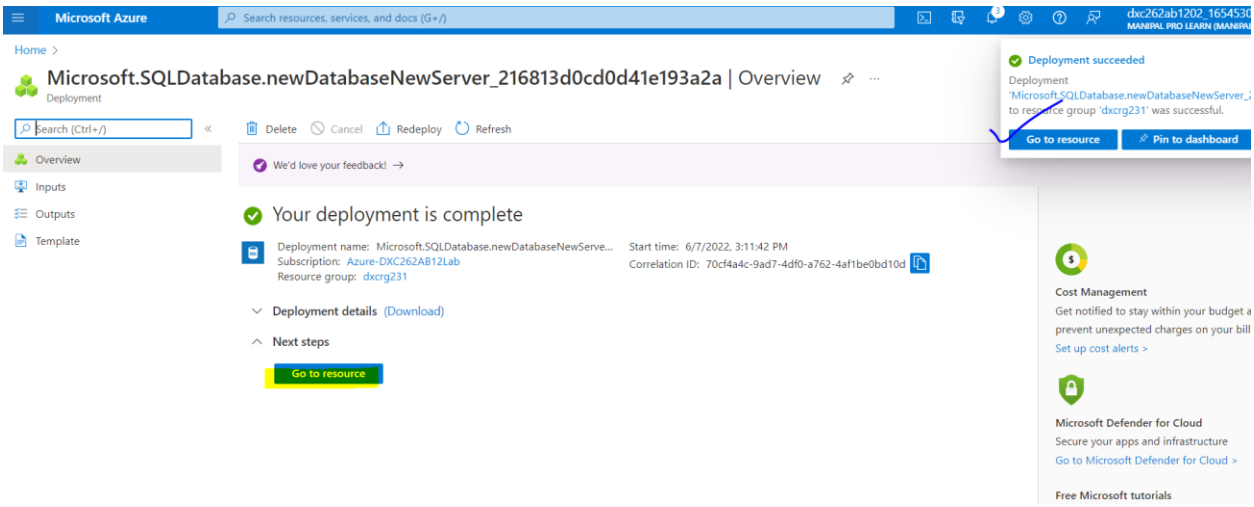
-click Configure database give Max vCore 1  GB and Apply



Keep backup storage redundancy as Geo-redundant backup storage




After that review + create  and Our Deployment is complete

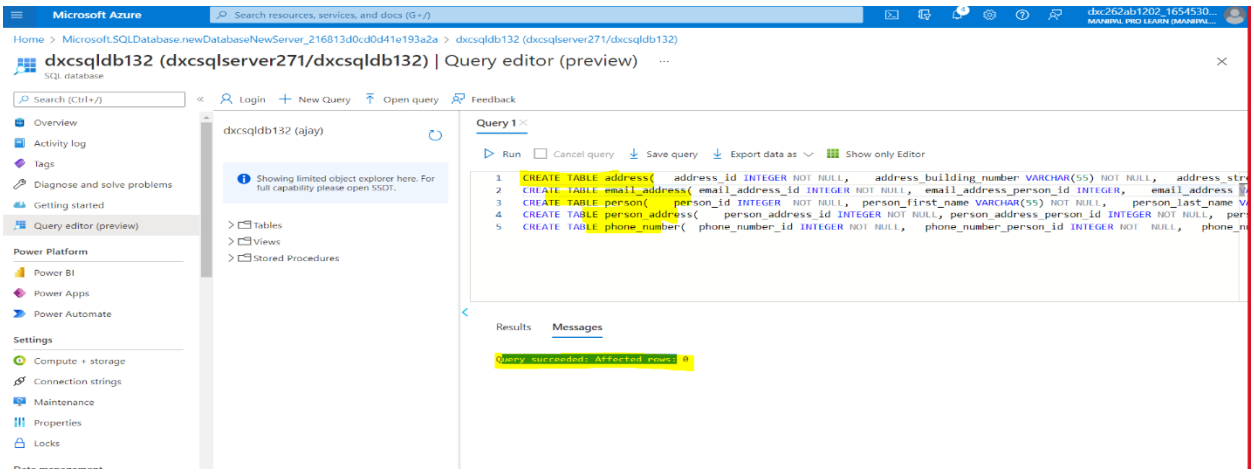


**10) Explain the steps with screenshots how to insert data into azure SQL database?**

To  insert data in Azure Sql after deployment go to

-Query editor (preview)

Give your login id and password and click ok




Create the tables whatever we want and run the query tables will be created ,After that insert the values we need in the table we get tables with inserted values


To see the inserted values in the table go to tables and write the query which is select * from table_name