CASE-STUDY (NUMBER - 8) – SOLUTION SUBMISSION

ON

AZURE ANALYTICS

BY

NAME –SUPRIYA BHARATHA ROLL NUMBER DXCAB1211

BATCH:DXC-262-ANALYTICS-B12-AZURE COMPANY – DXC TECHNOLOGY

TRAINING UNDER – MANIPAL PRO LEARN TRAINER NAME – MR. AJAY KUMAR DATE OF SUBMISSION – 8th JUNE 2022 TOTAL NUMBER OF QUESTIONS: 10 EMPLOYEE DOMAIN - AZURE ANALYTICS

* THE QUESTIONS:

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

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 ?

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

4. Explain the steps with screenshots how to copy data from source blob to destination blob ?

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

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

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

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

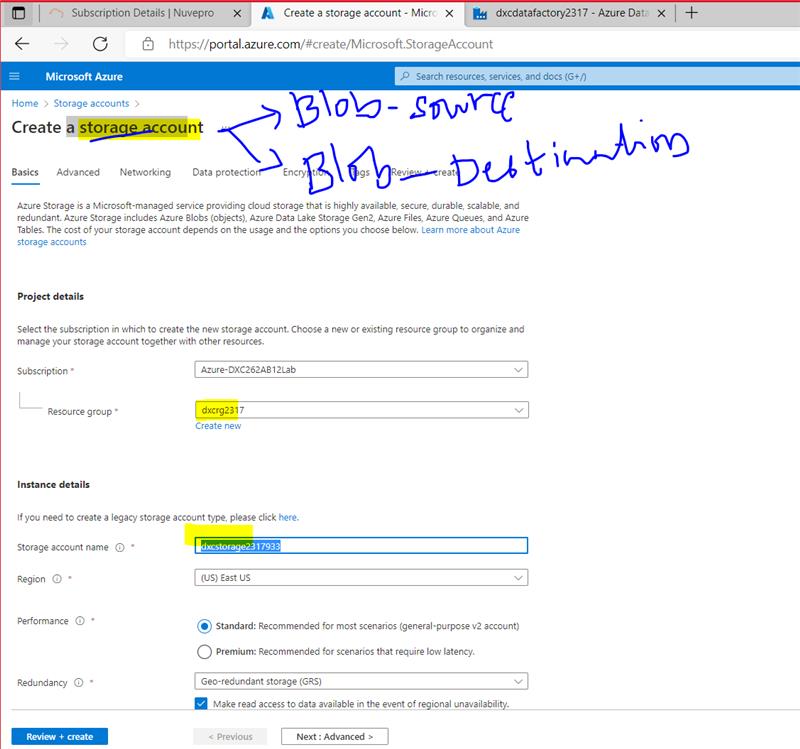
9. Explain the steps with screenshots how to create connect SQL Database in Azure ?

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

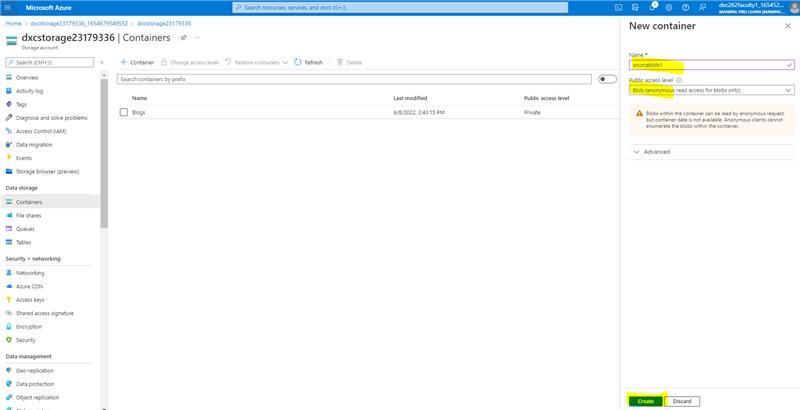
1. Explain the steps with screenshots how to create Blob storage in Azure cloud?

Solution:

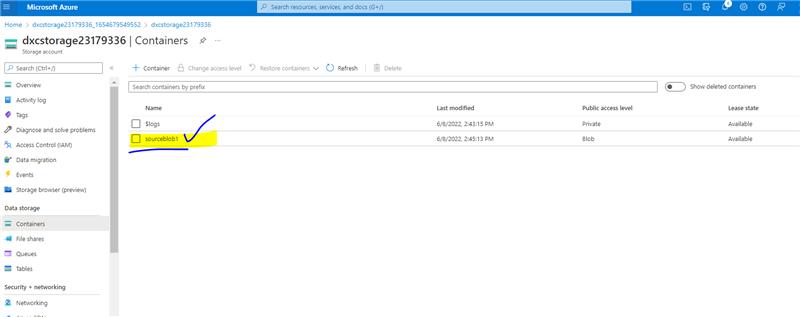
**STEP 1:** For Blob storage account we need to search the storage account.



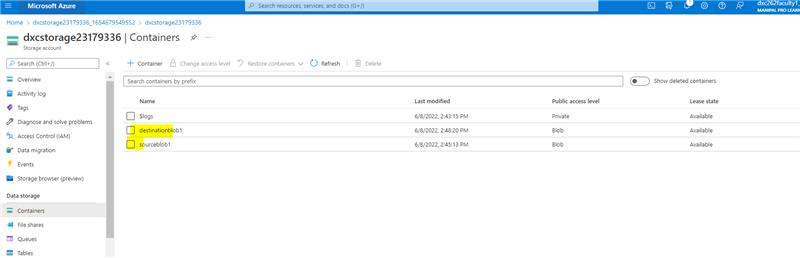
**STEP 2:** After creating ,here we can add the containers in the dxcstorage.



**STEP 3:** As shown the souceblob 1 is added in containers.



**STEP 4:** And similarly we can add other containers also.



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

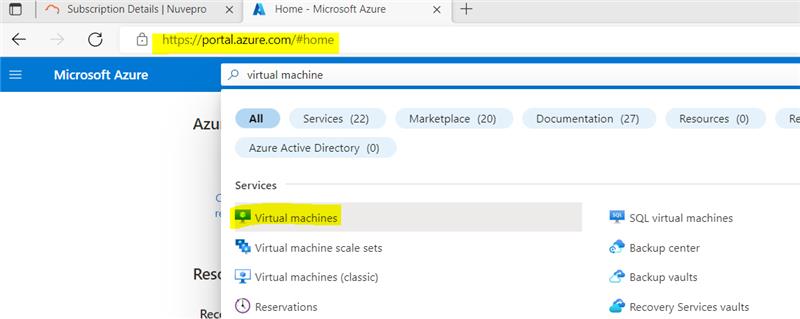
(i) Local Computer - CMD method ?

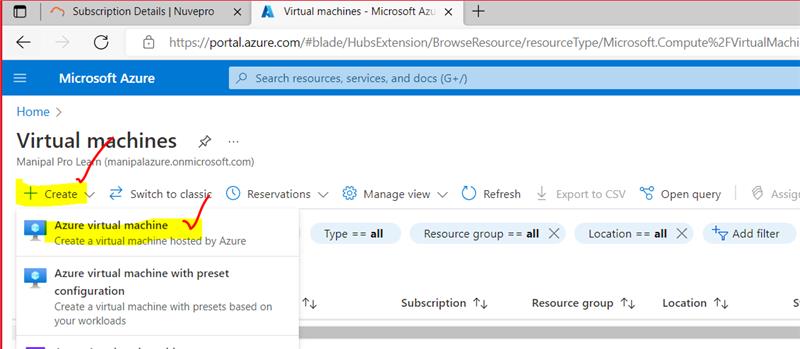
(ii) Using Azure cloud Shell?

(iii) Also using Azure Bastion ?

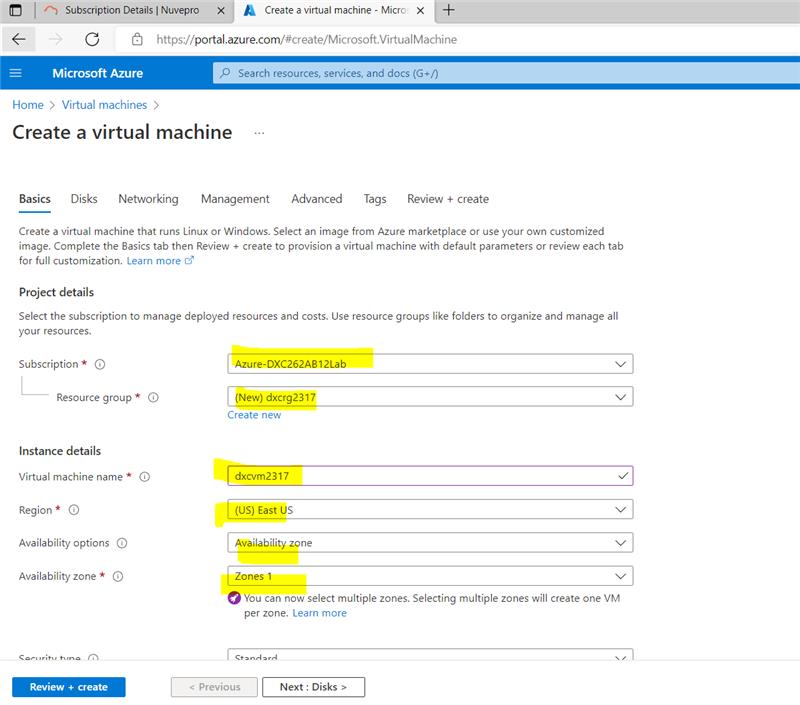
Solution:

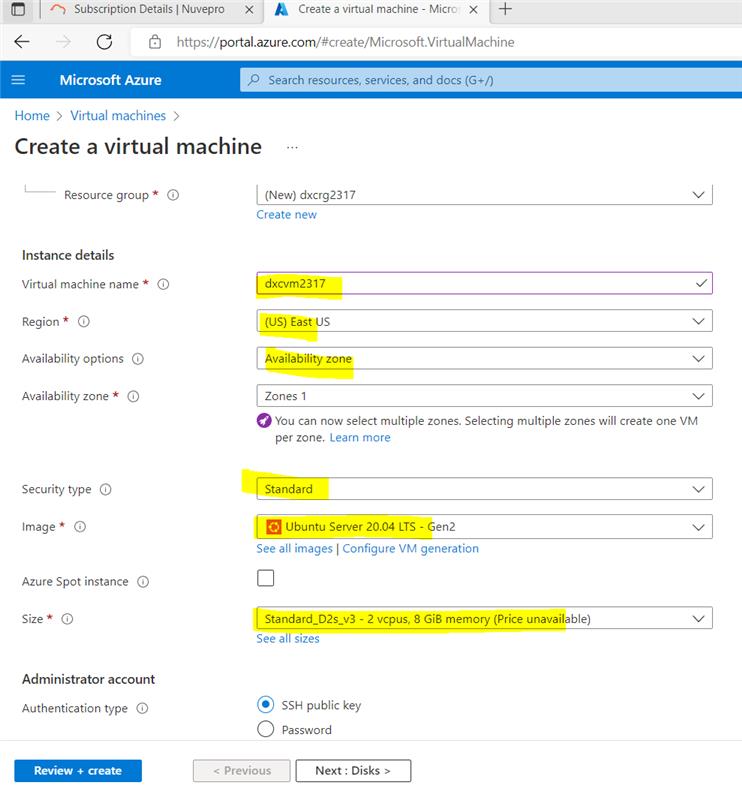
**STEP 1:** In azure portal we have to search for virtual machine and create .



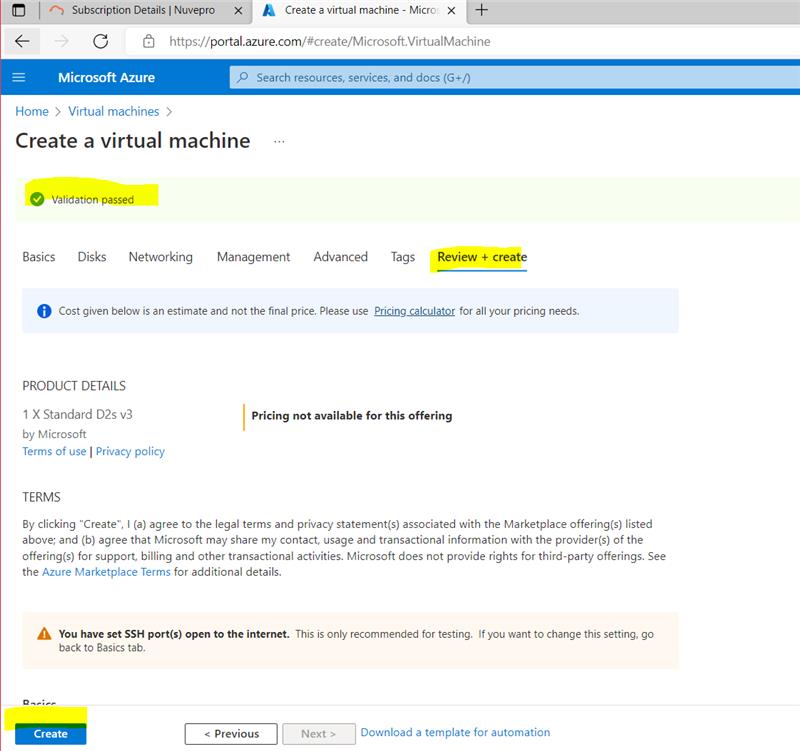


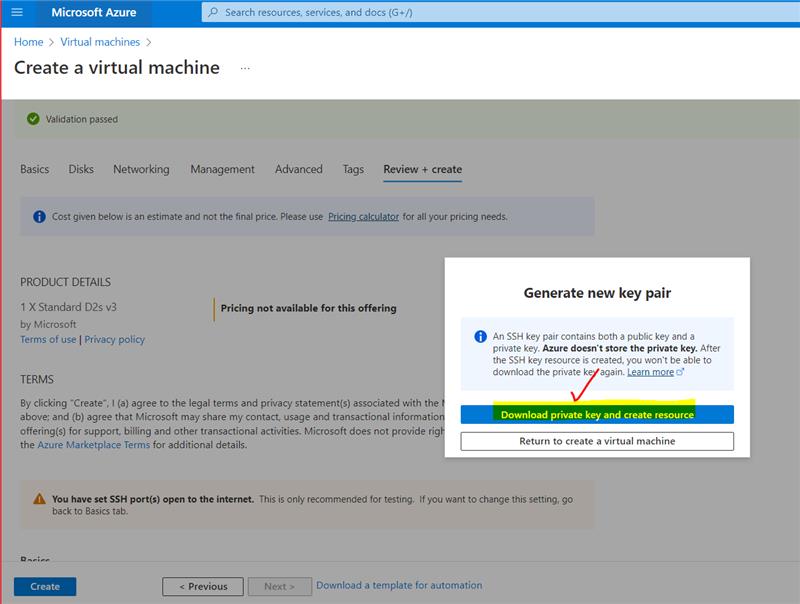
**STEP 2:** After clicking on create ,we have to give the details of resource group and virtual machine name and select the zone.



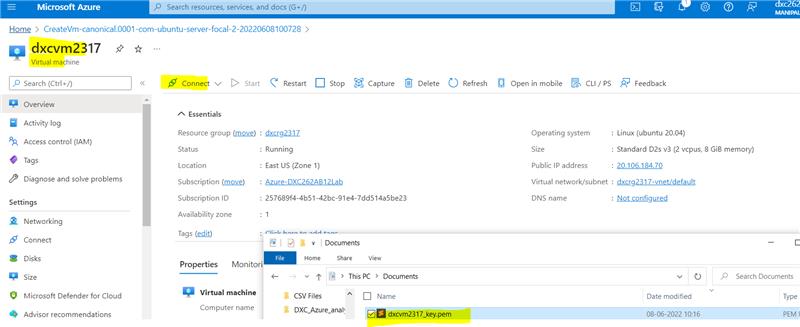


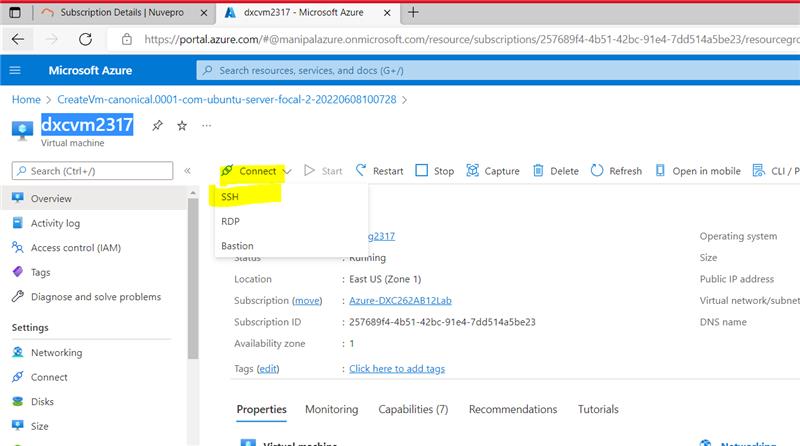
**STEP 3:** After filling the required details we need to create the virtual machine and then download the key shown.

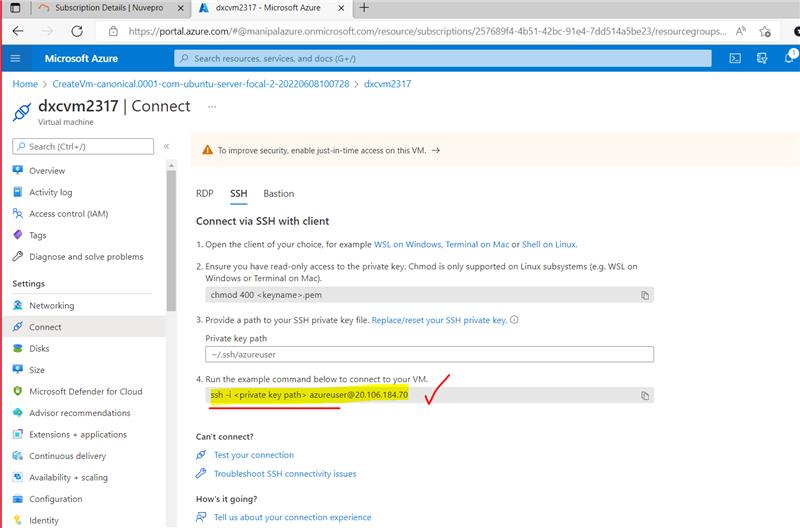




**STEP 4:**  After downloading ,connect SSH and find the key position .

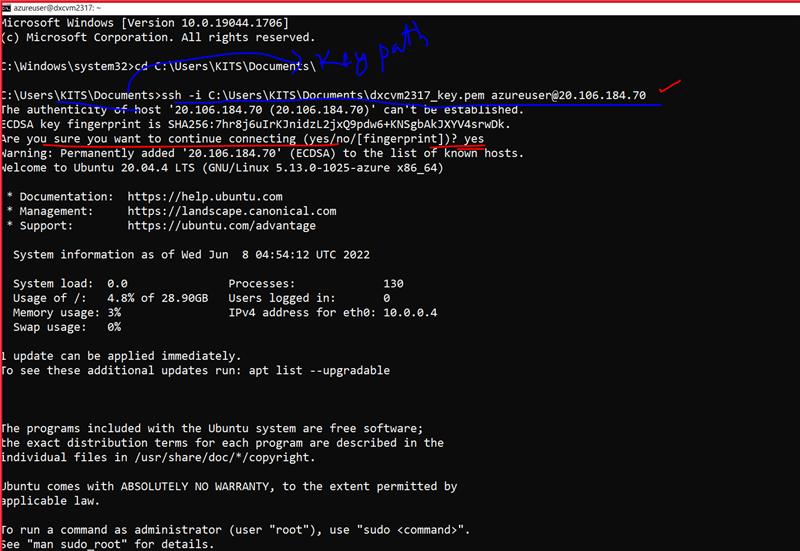


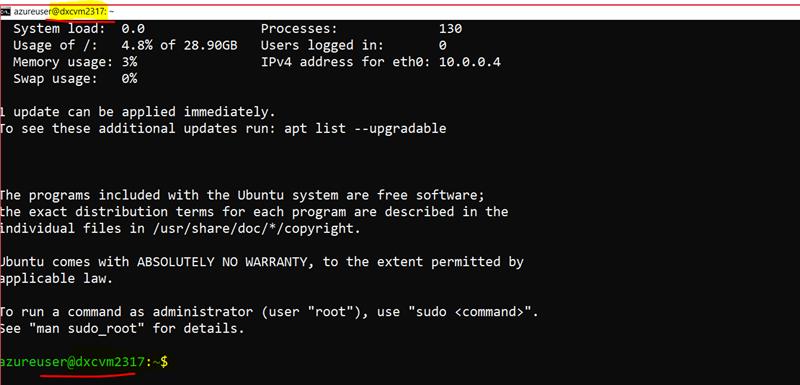




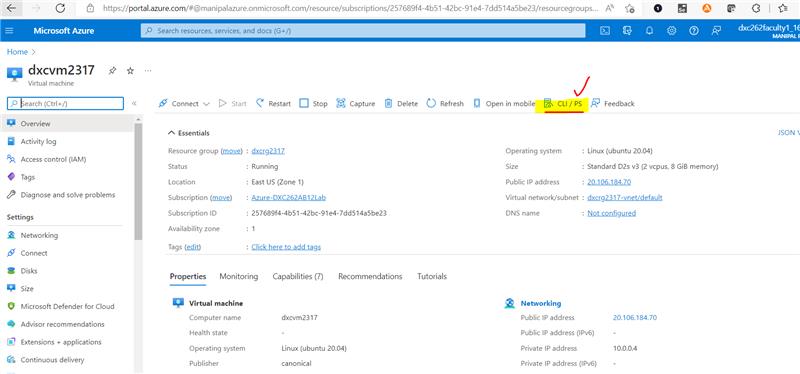
1. **Local Computer - CMD method**

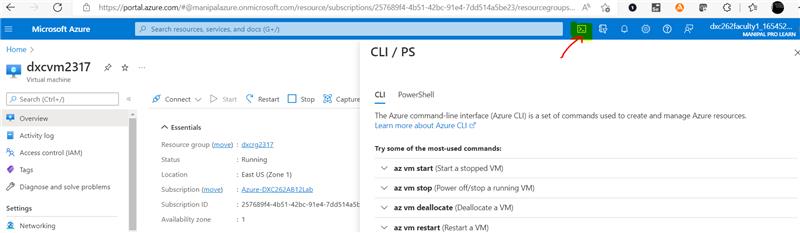
Using command enter the key position and connect the key with SSH.

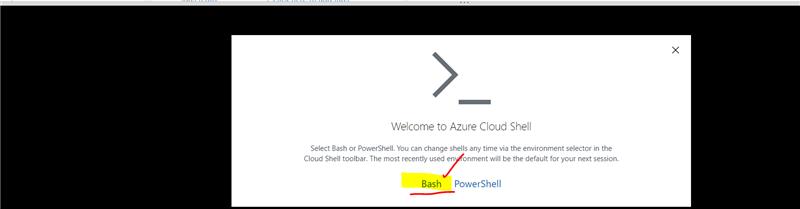
****

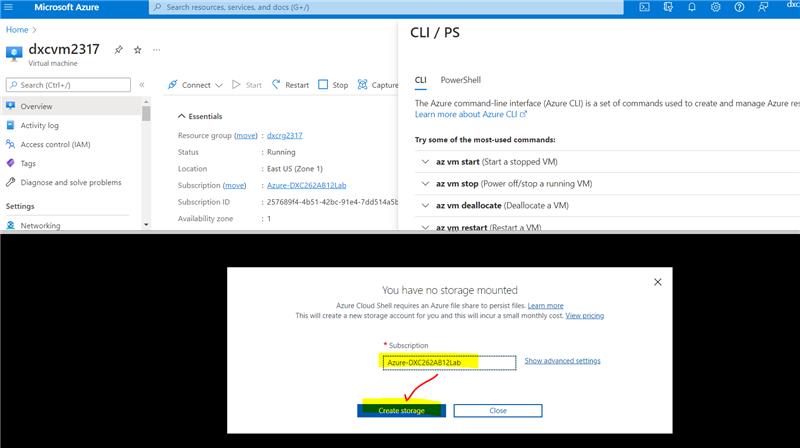
****

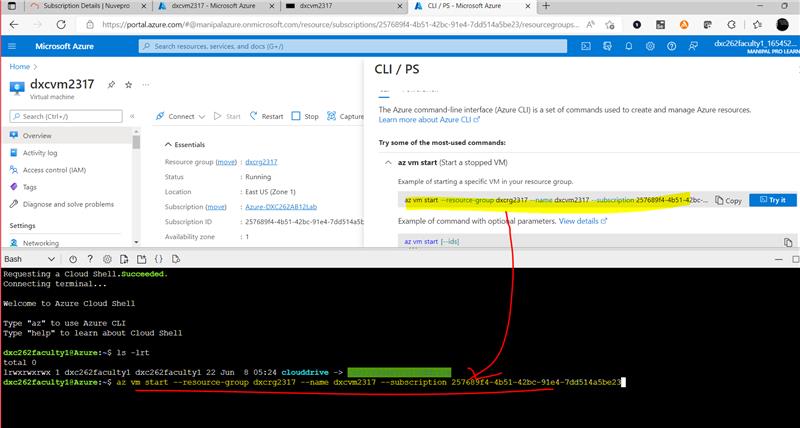
1. **Using Azure cloud Shell**

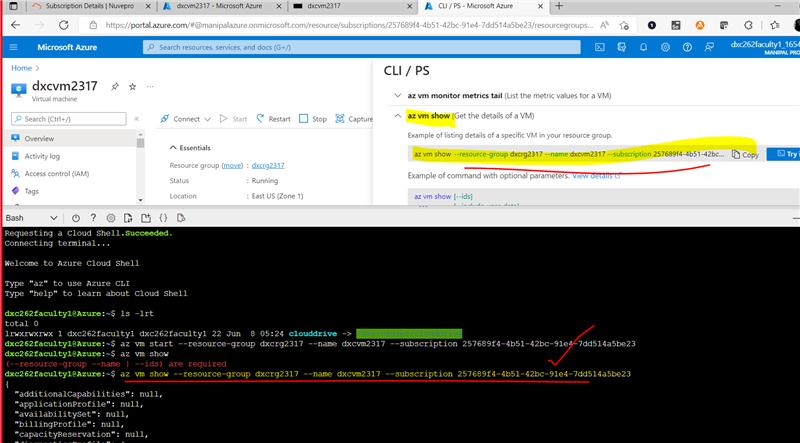
****

****

****

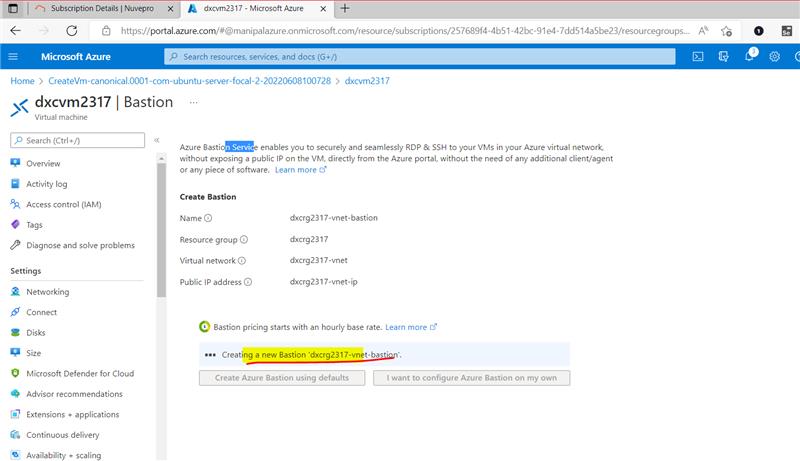
****

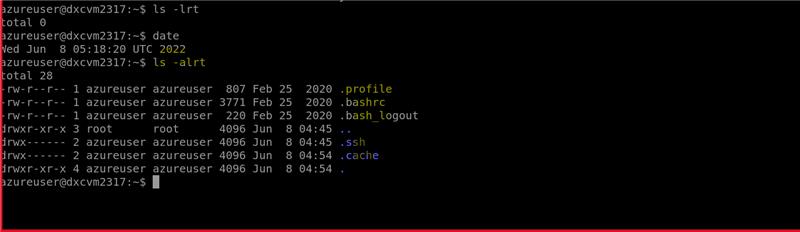
****

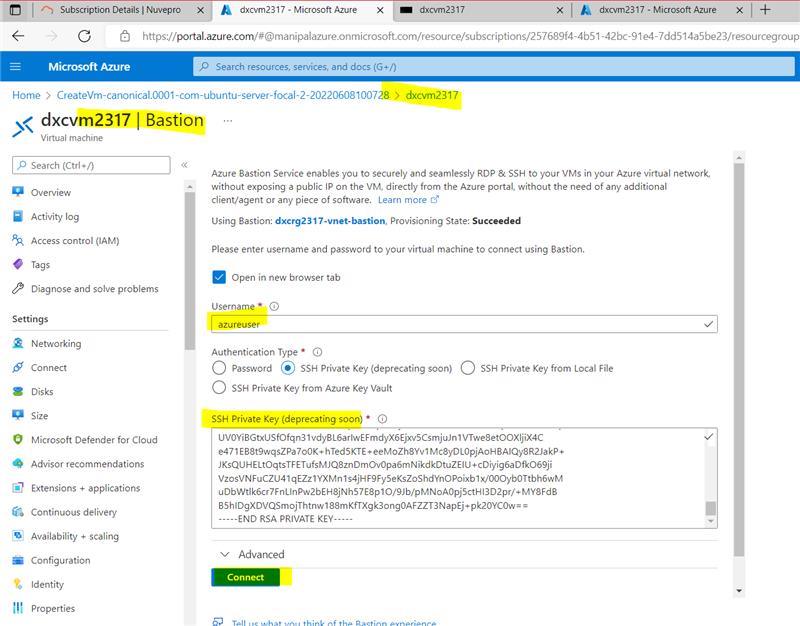
****

**(iii) Also using Azure Bastion**

In azure bastion, create a new bastion and enter the username and the key and connect.



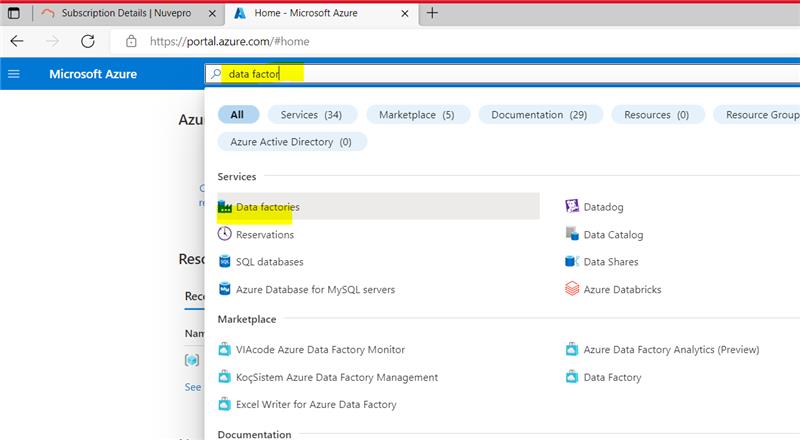


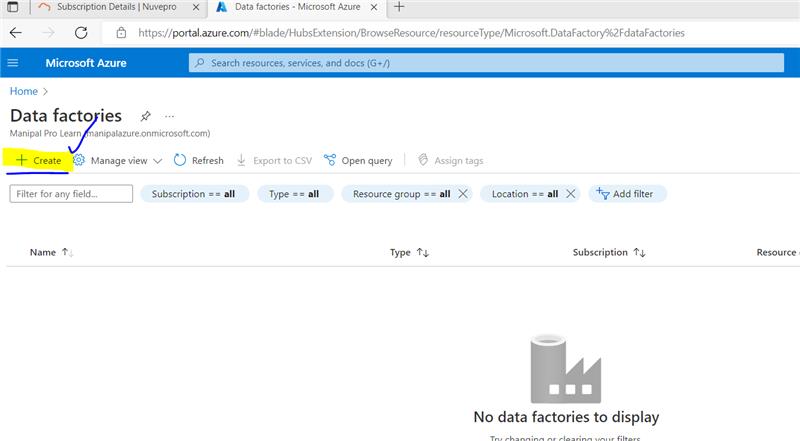


3. Explain the steps with screenshots how to create Data factory ?

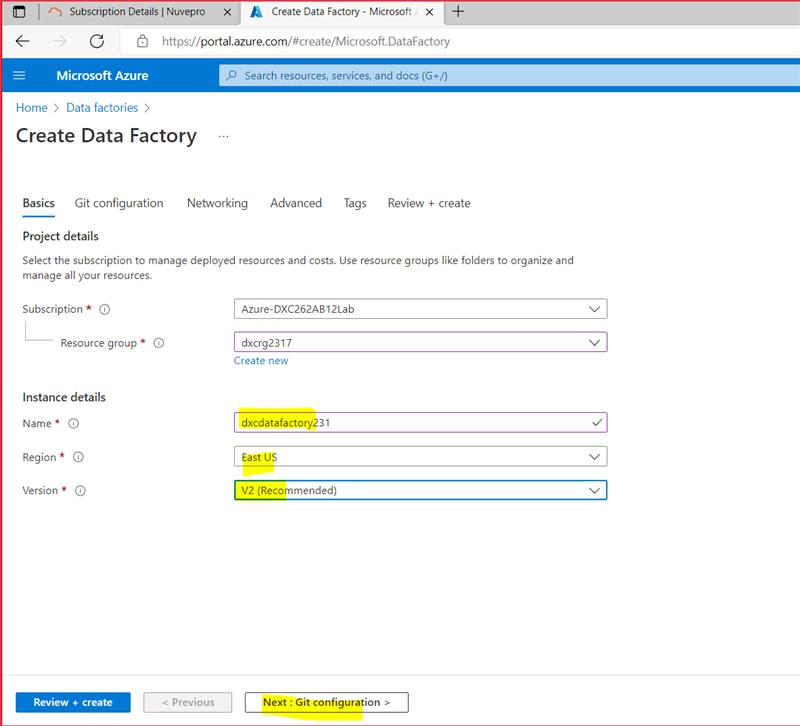
Solution:

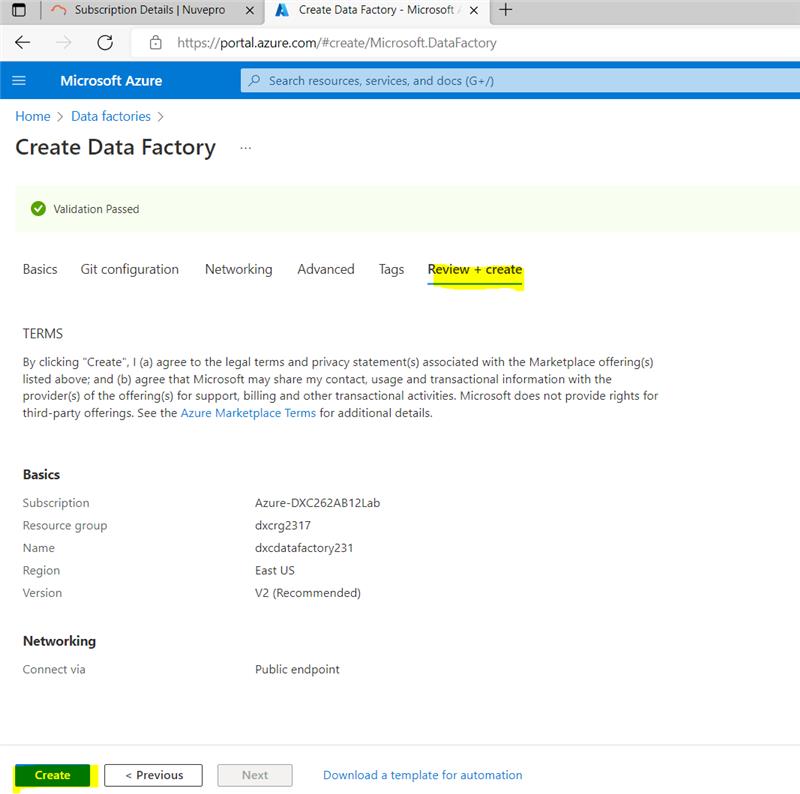
**STEP 1:** Search data factory and click on create button.



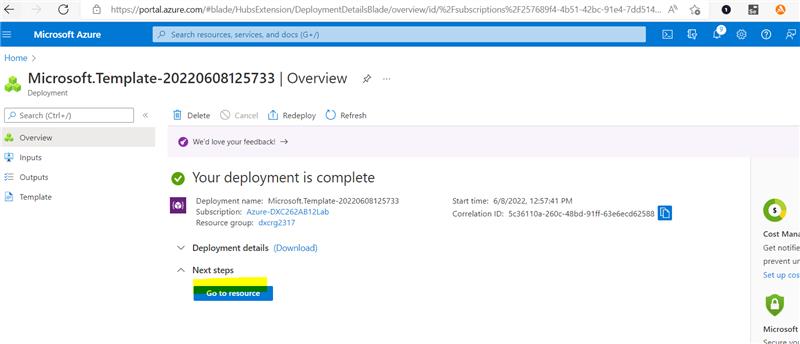


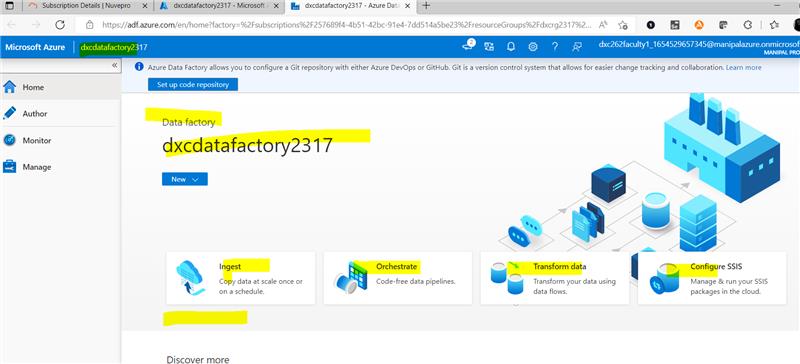
**STEP 2:** And create the data factory by entering the details of resource group,name .





**STEP 4:** After creating deployment will complete and page is opened of daxcdatafactory2317 .

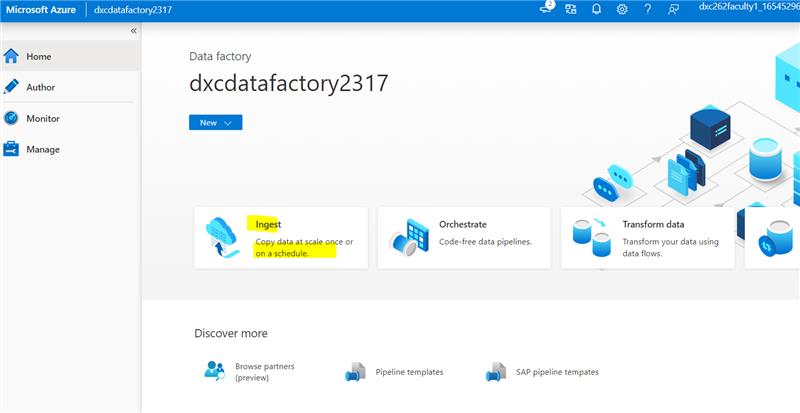


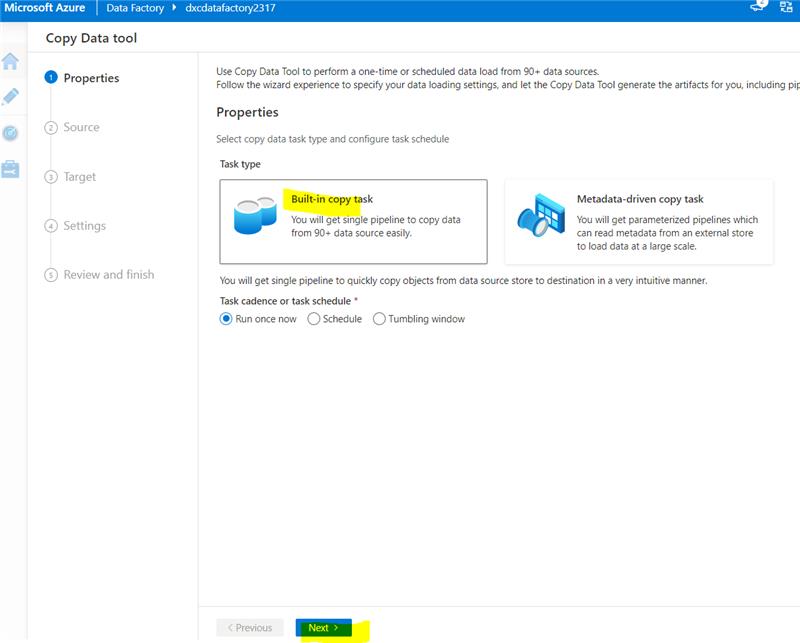


4. Explain the steps with screenshots how to copy data from source blob to destination blob ?

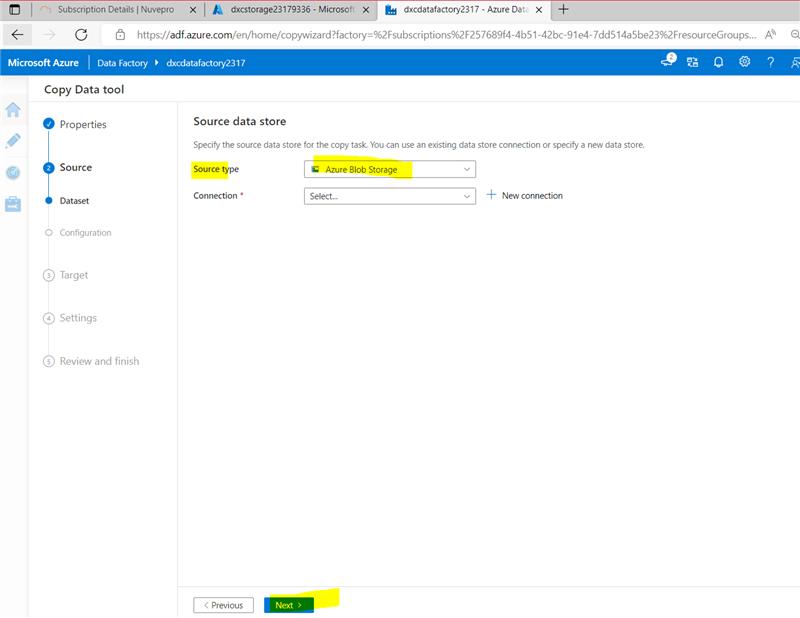
Solution:

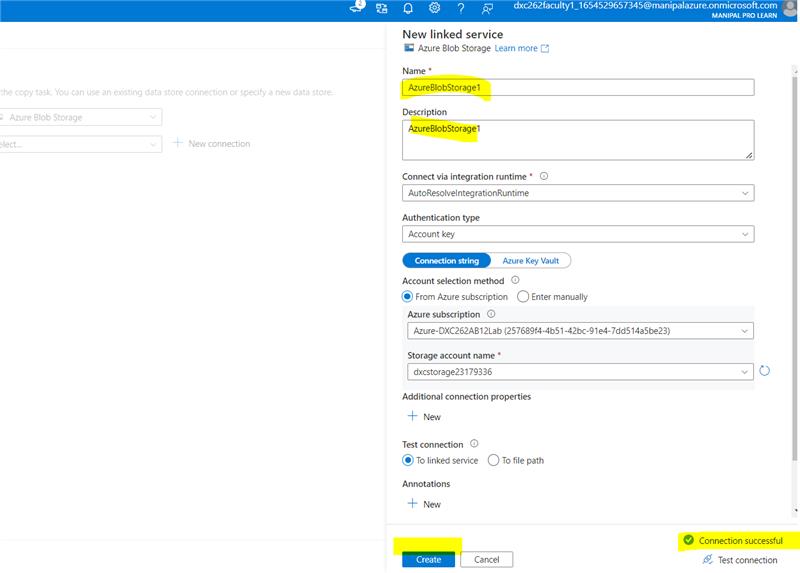
**STEP 1:** after opening the datafactory tab we can give input as shown. And then click on built in copy task.



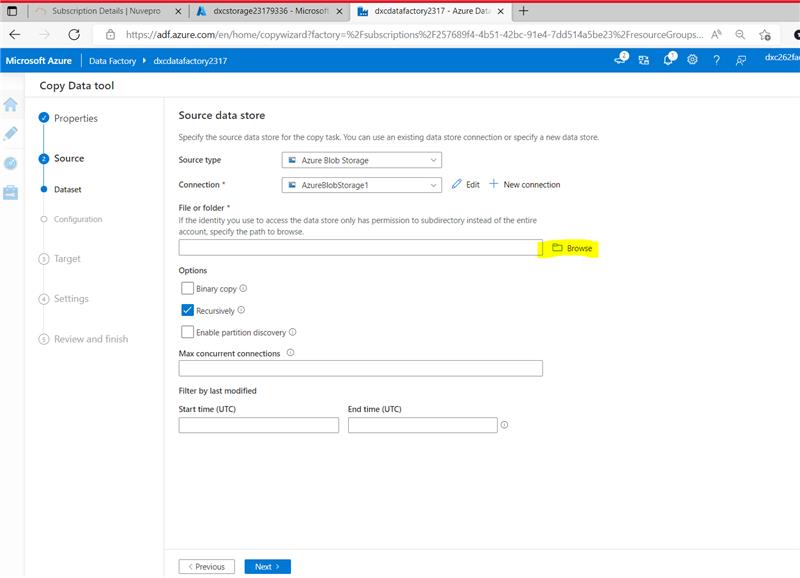


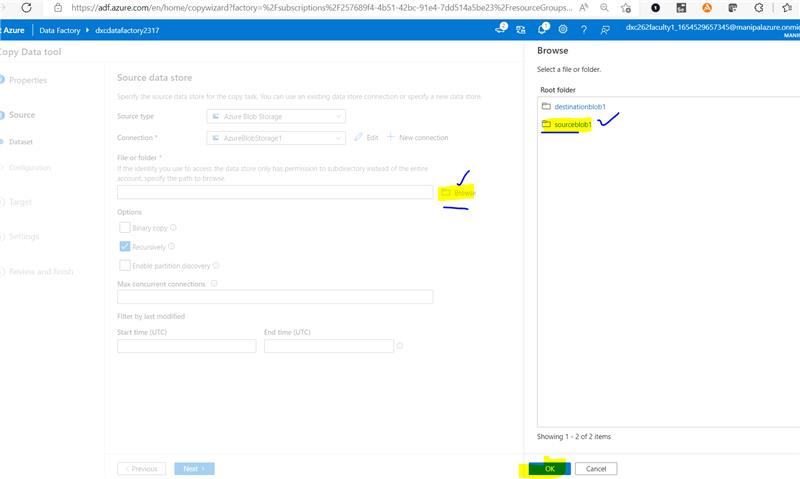
**STEP 2:** enter source type and the connection details.



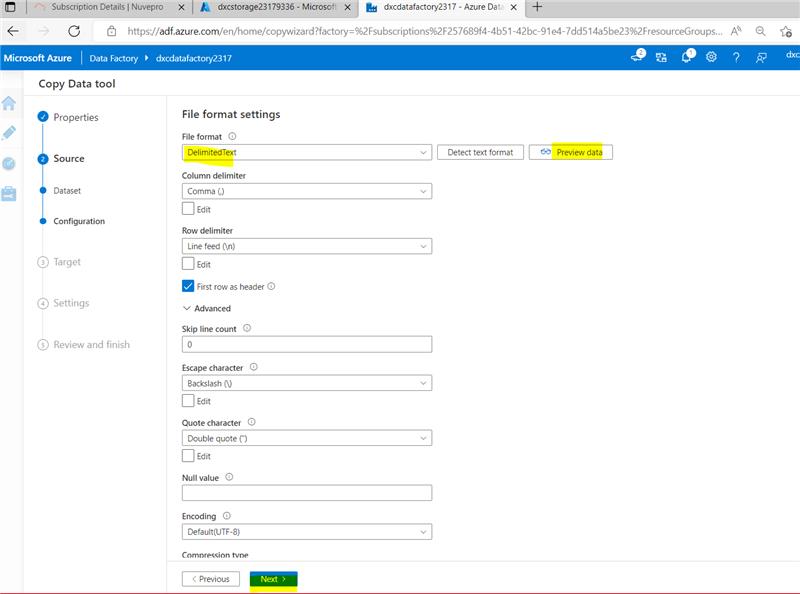


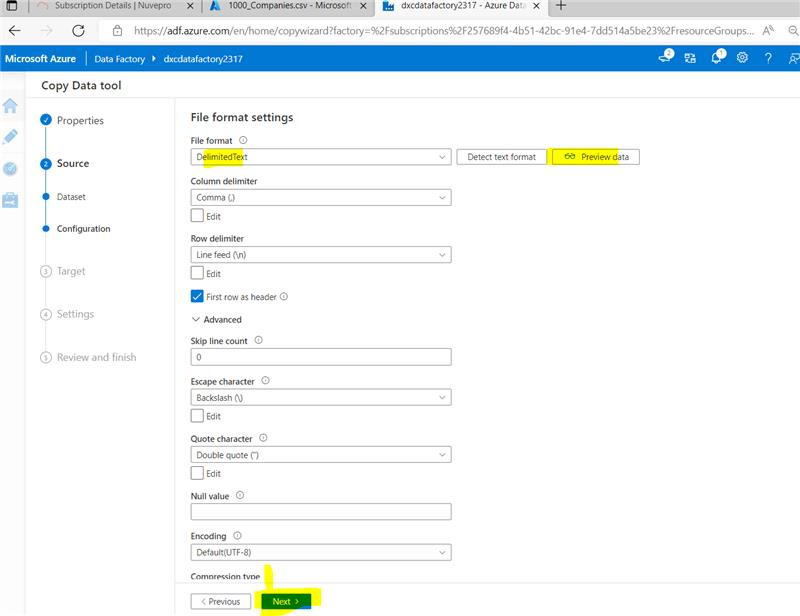
**STEP 3:** in Source data store we have to browse and enter the file that uploaded previously.



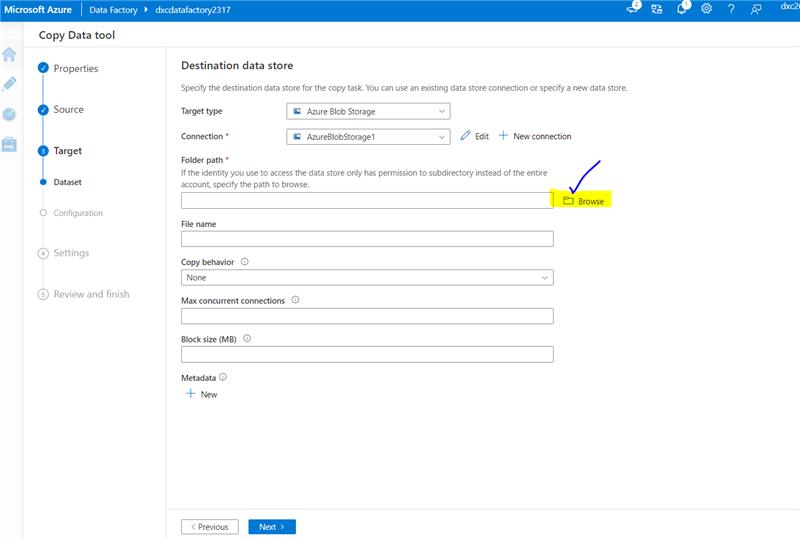


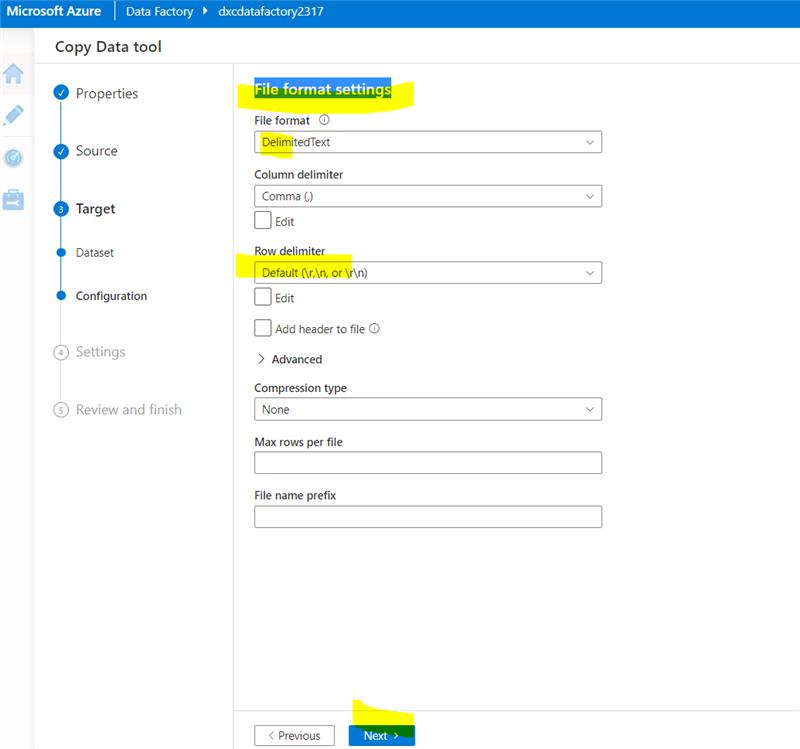
**STEP 4:** In source we have give the details of file format and preview data.



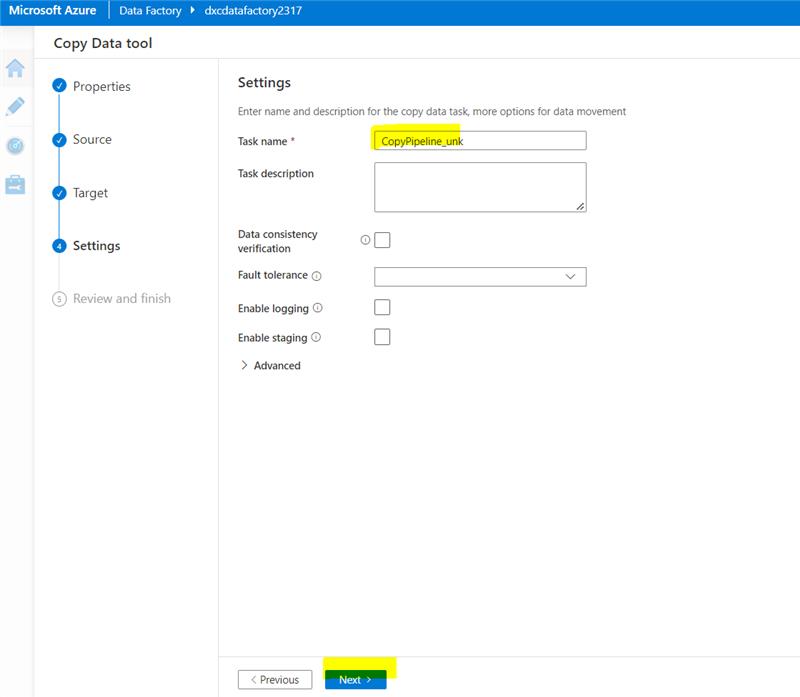


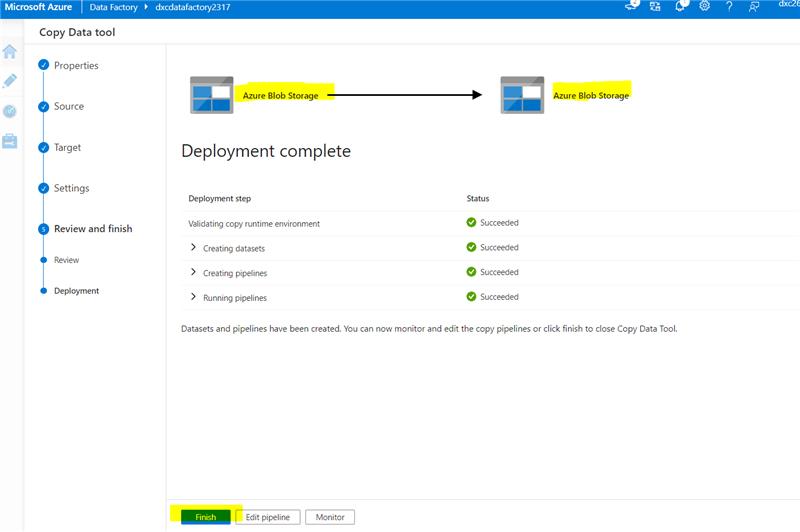
**STEP 5:** In target we need give storage type and folder path by browsing and enter the configure details.



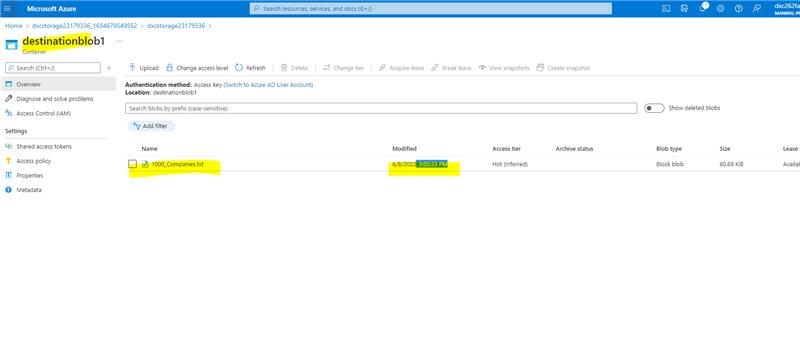


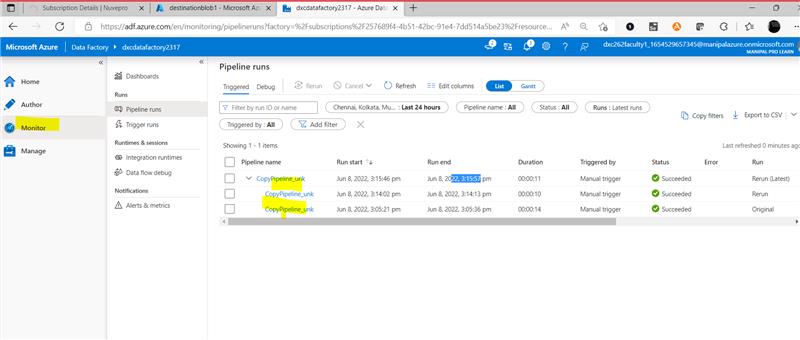
**STEP 6:** The settings and review after that we can finish it.





**STEP 7:** After the process of rerun we see the files.

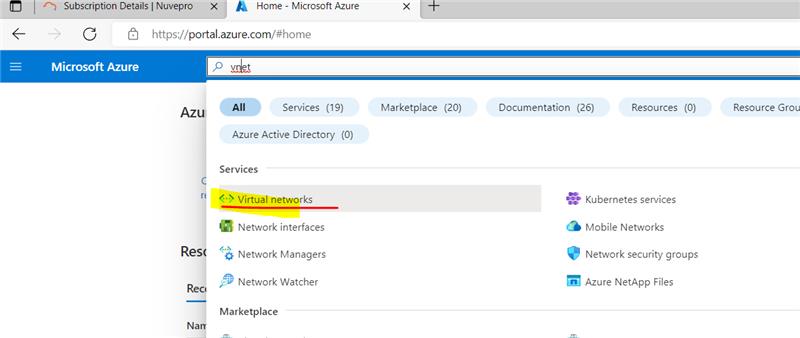




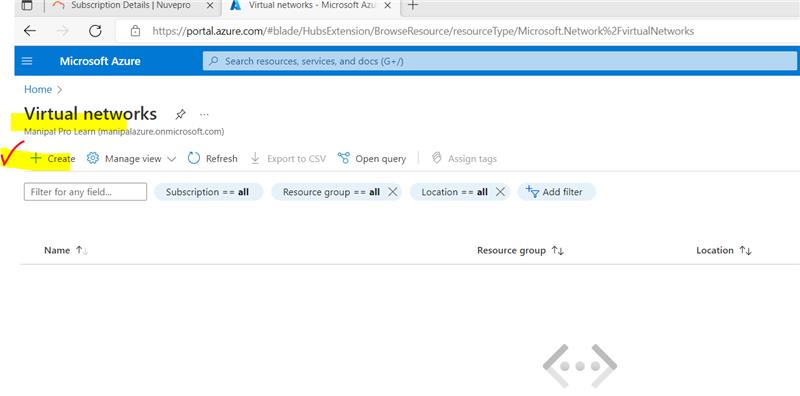
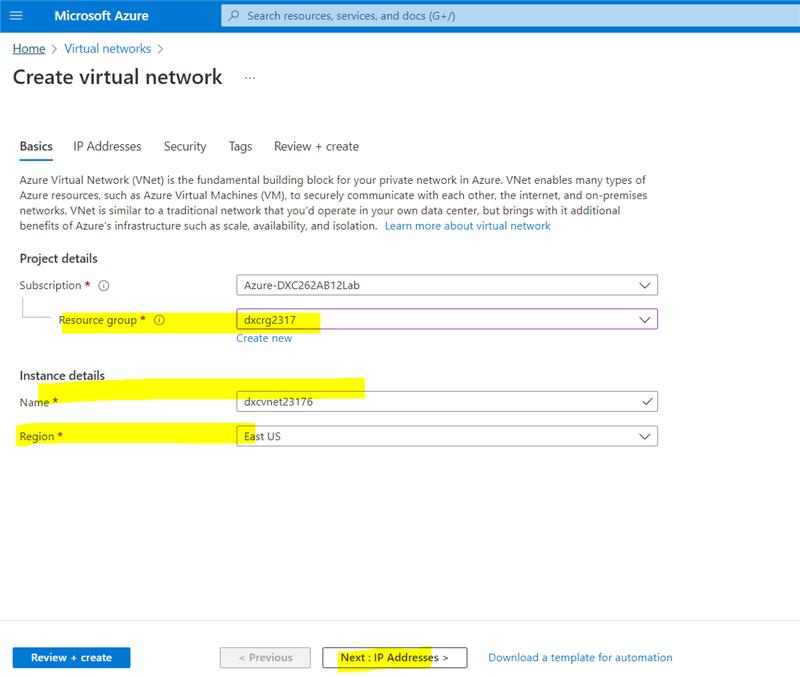
5. Explain the steps with screenshots how to create Virtual Network in Azure ?

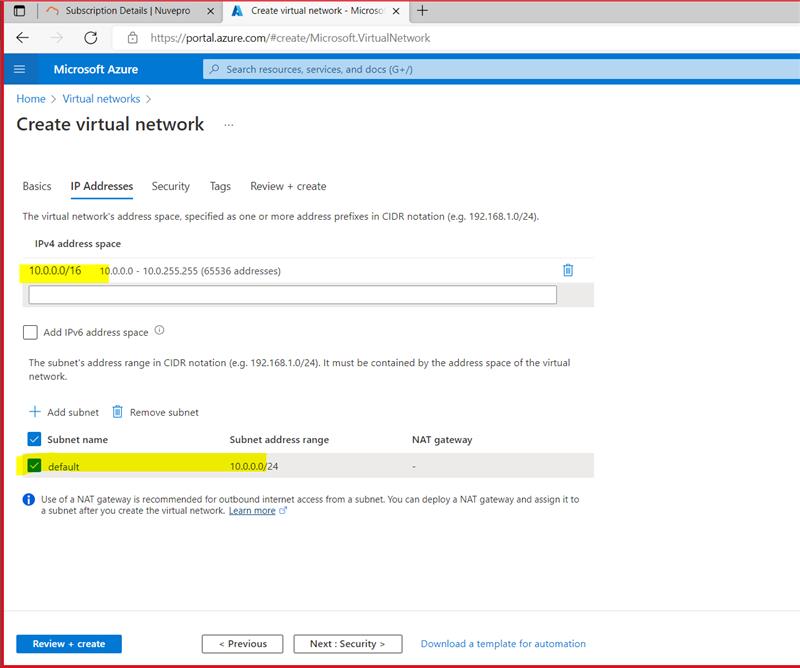
Solution:

**STEP 1:** Search virtual networks in azure portal.

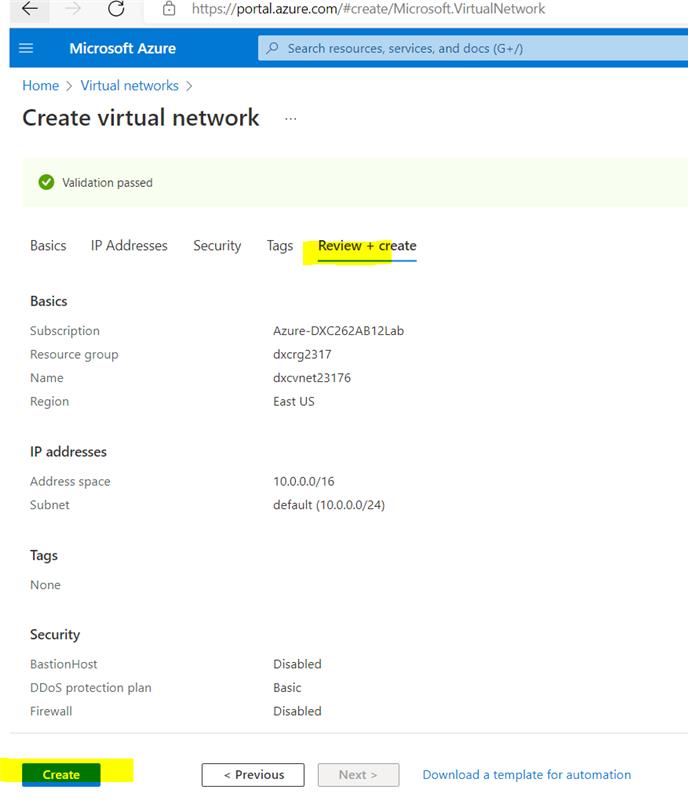


**STEP 2:** click on create button and fill the details of resource group and name and next to IP address.

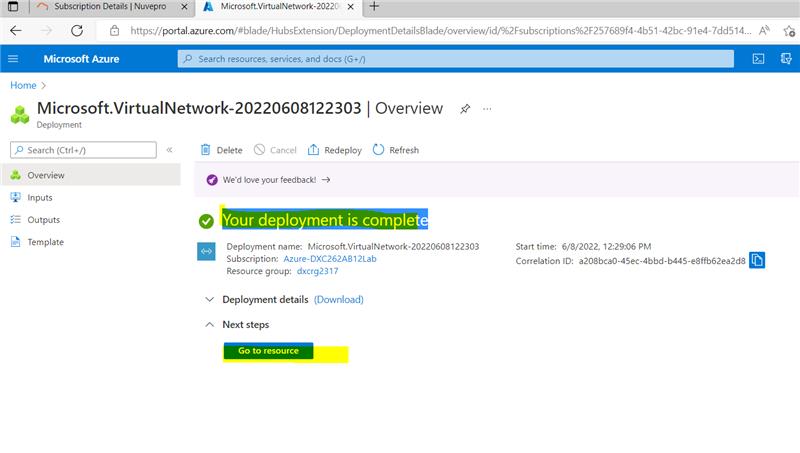


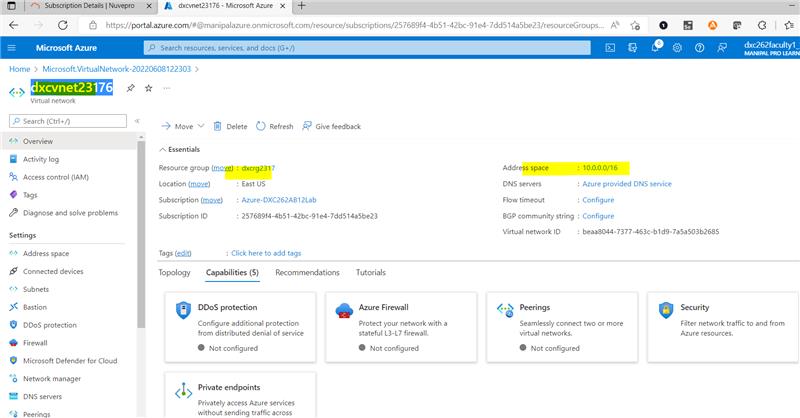


**STEP 3:** Later review and create the virtual network.



**STEP 4:** After creating the deployment is completed.

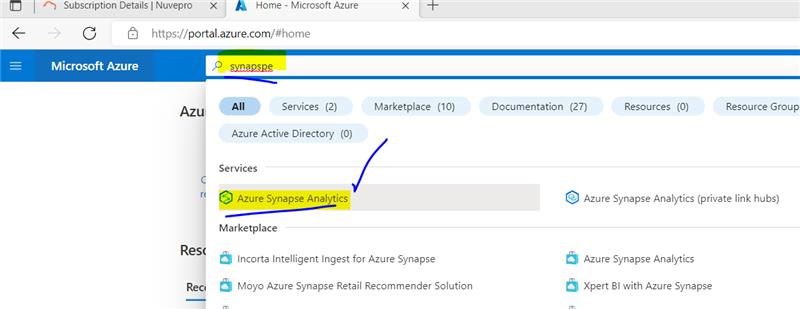


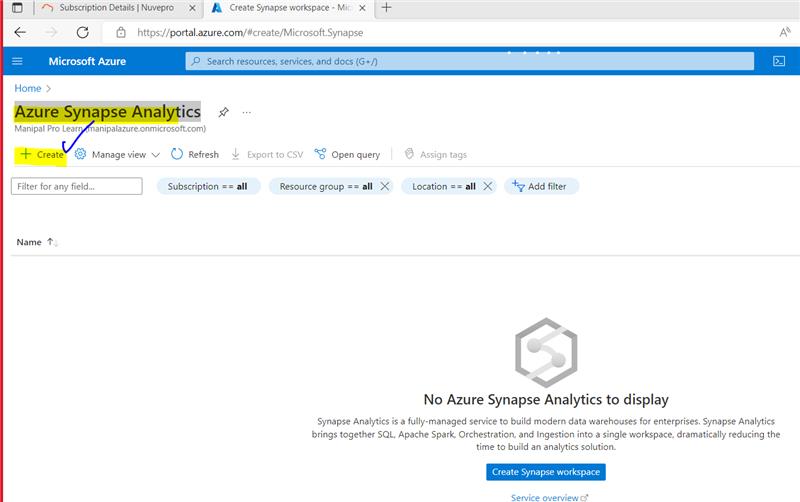


6. Explain the steps with screenshots how to create azure synapse analytics ?

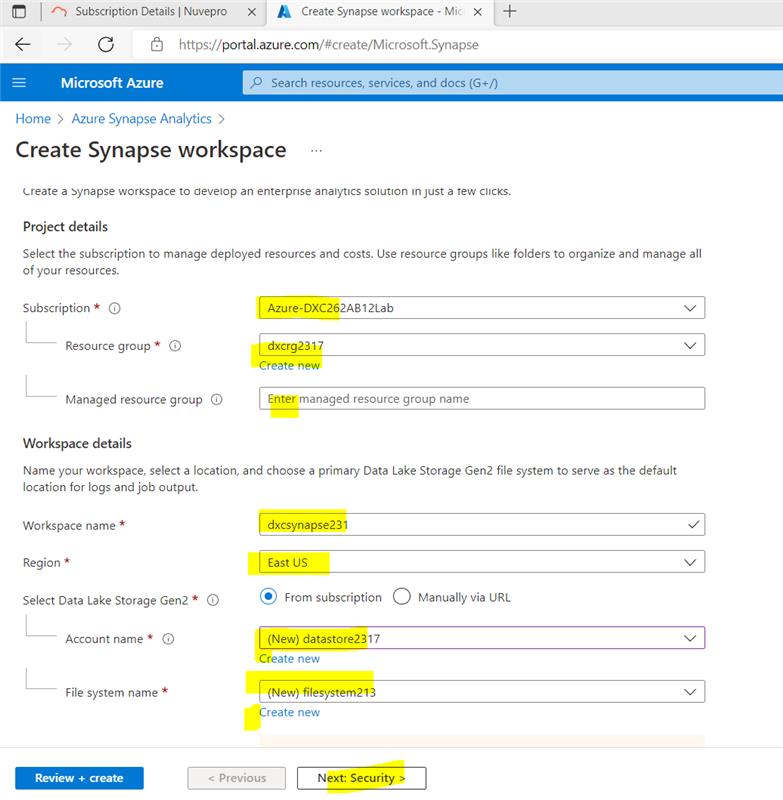
Solution:

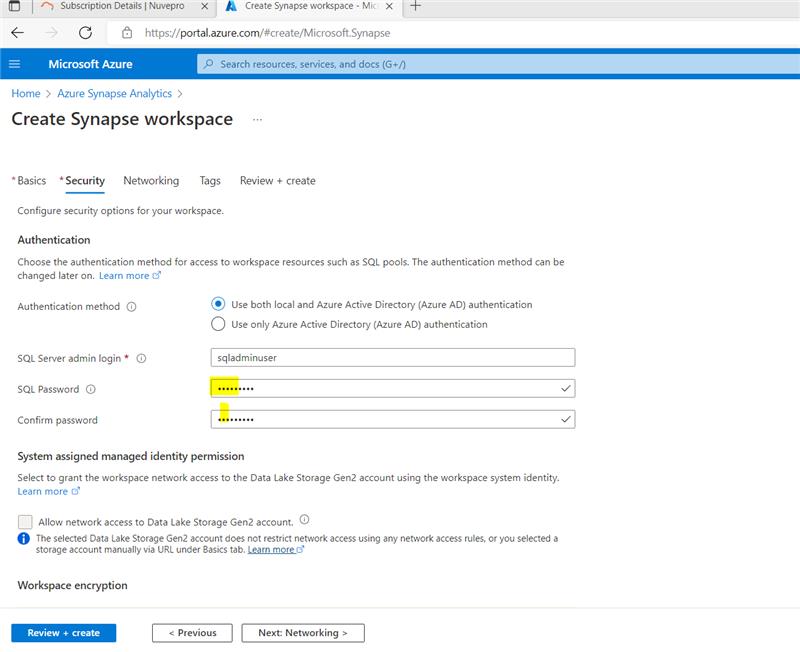
**STEP 1:** Search synapse analytics in azure portal. And click on the create button.



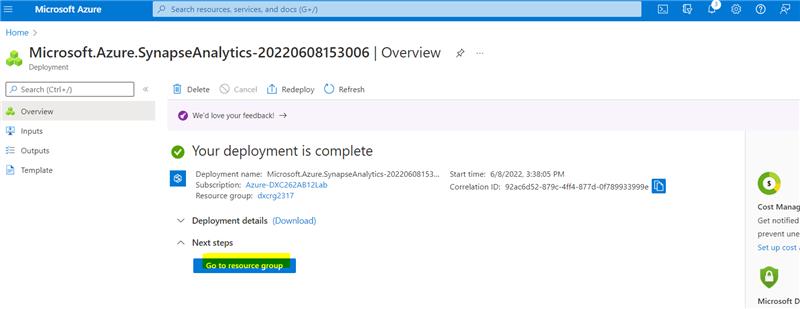


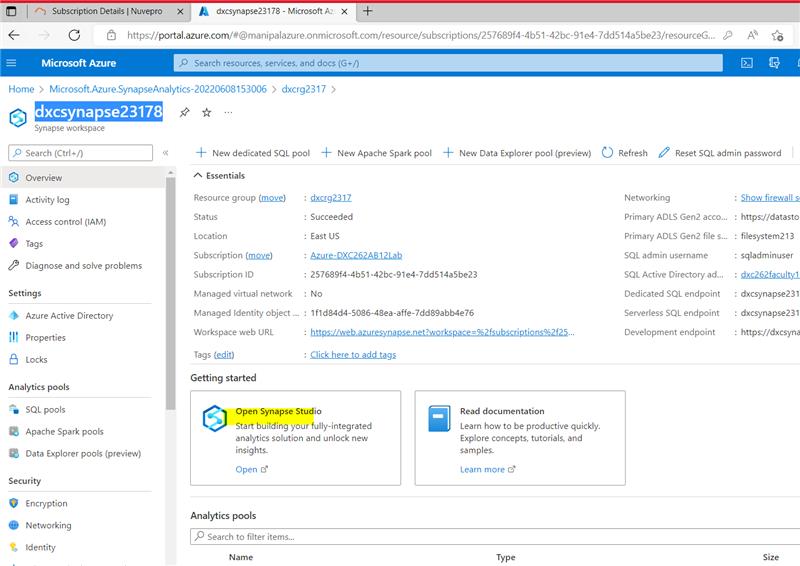
**STEP 2:** For creating we need to enter the resource group and workspace name ,account name ,file system name.





**STEP 3:** After creating the deployment is completed.

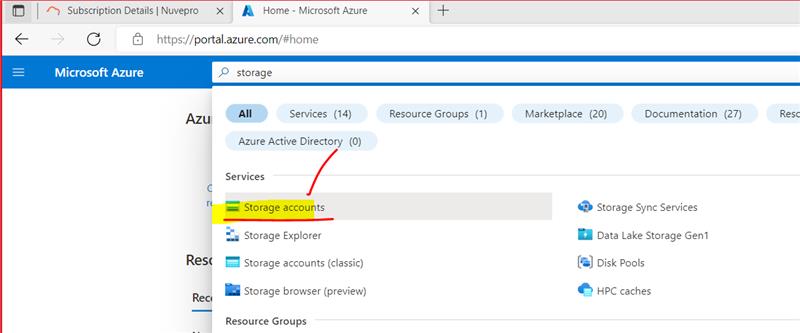


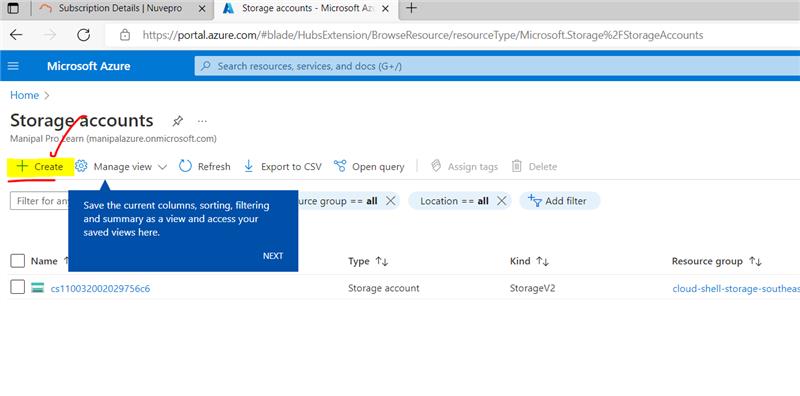


7. Explain the steps with screenshots how to create Azure storage account?

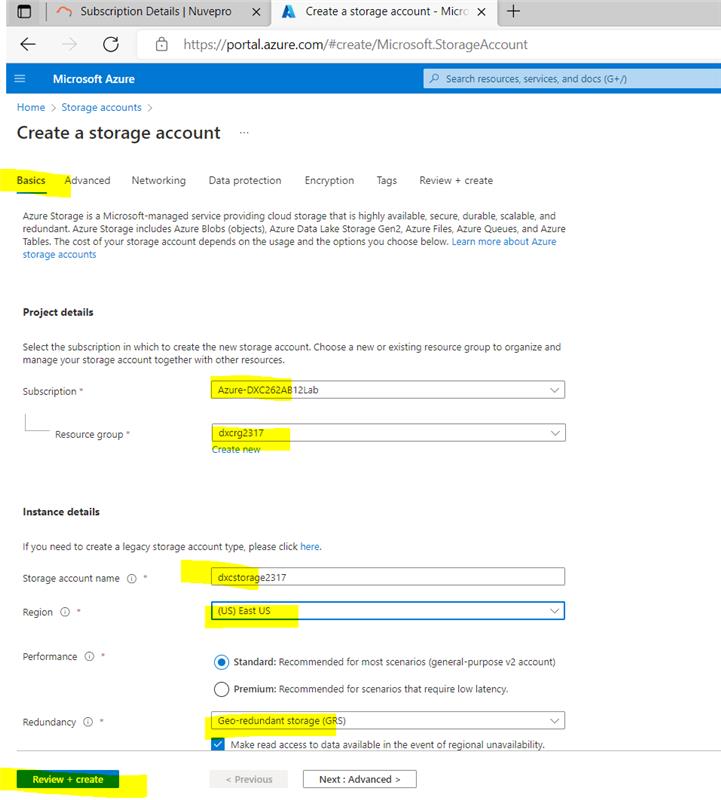
Solution:

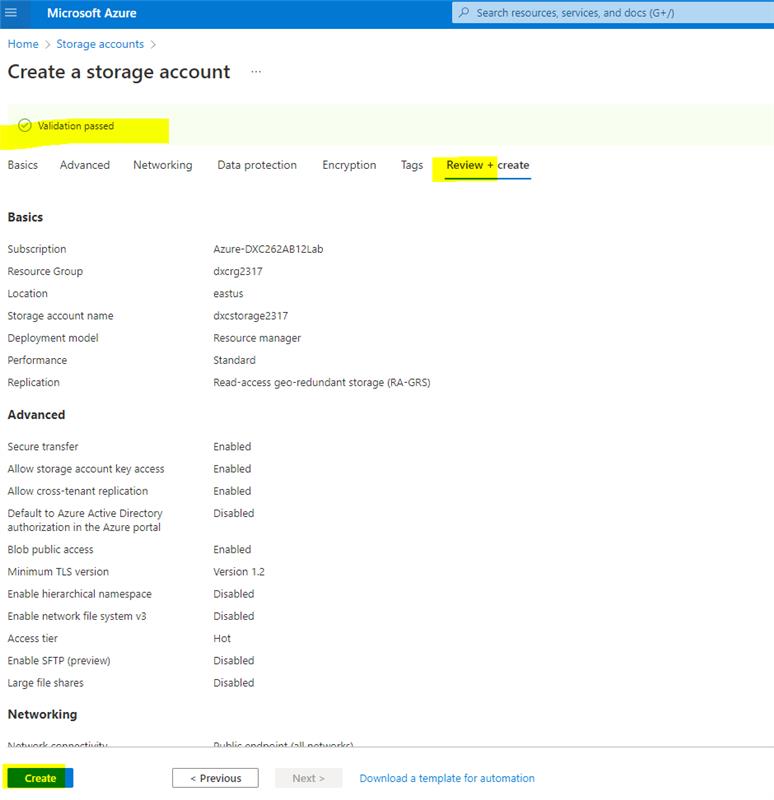
**STEP 1:** Search storage accounts and click on create .



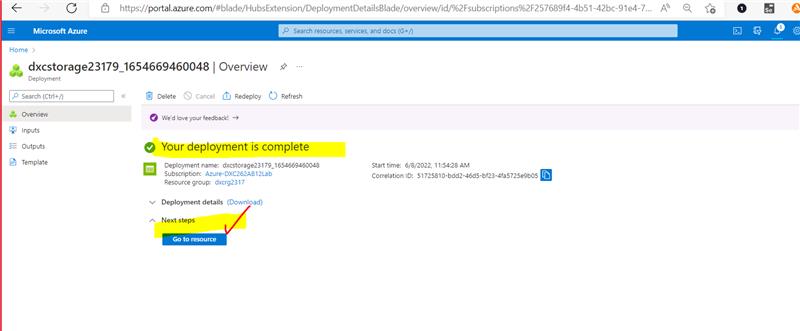


**STEP 2:** For creating we need to enter the resource group and storage account name.

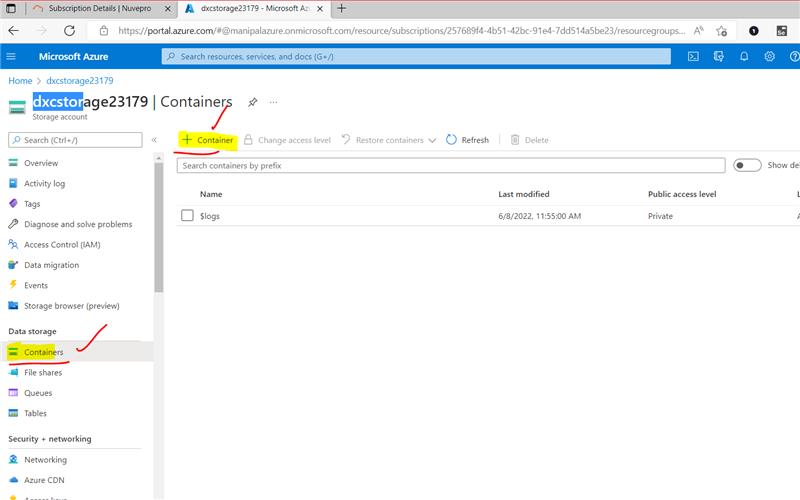


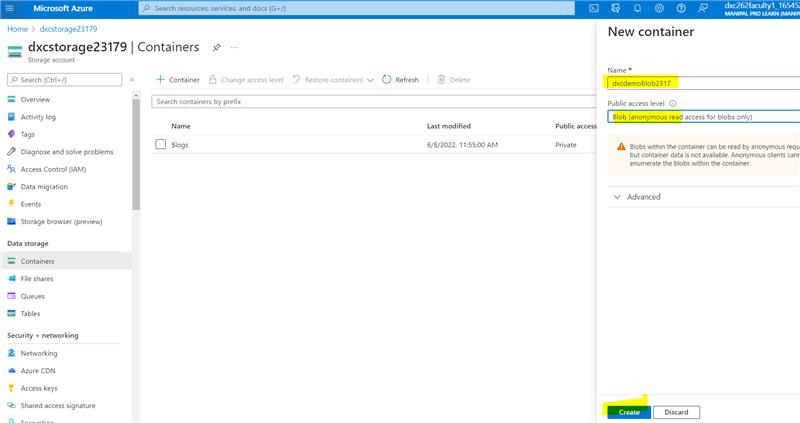


**STEP 3:** After creating the deployment is completed.



**STEP 4:** Add new containers in it.

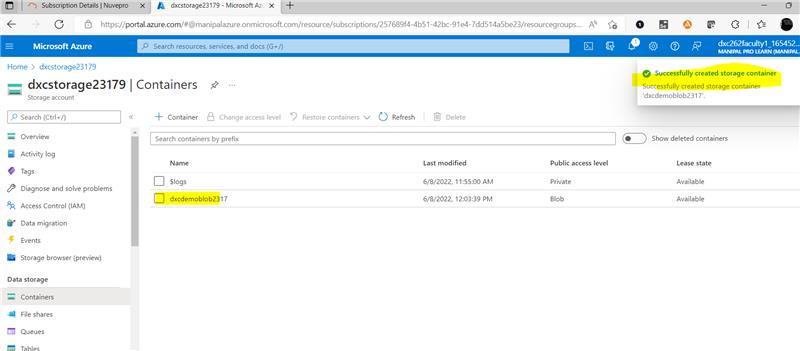


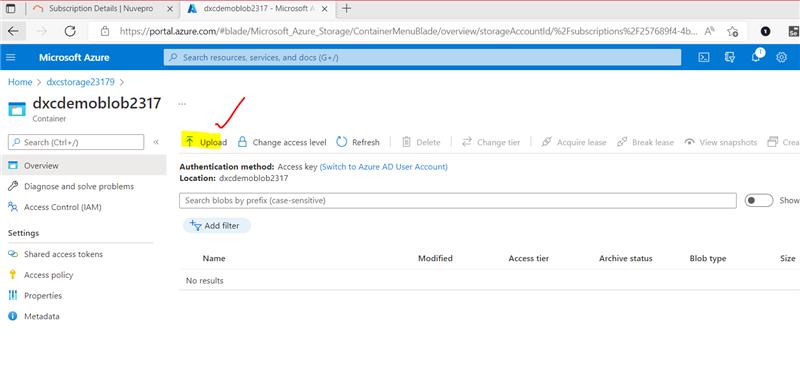


8. Explain the steps with screenshots how to create upload data into Azure Blobs ?

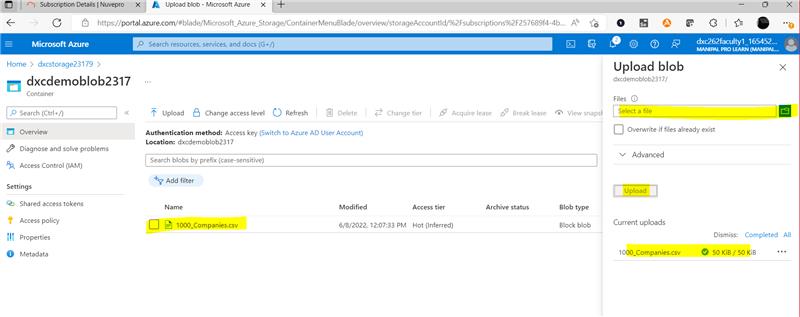
Solution:

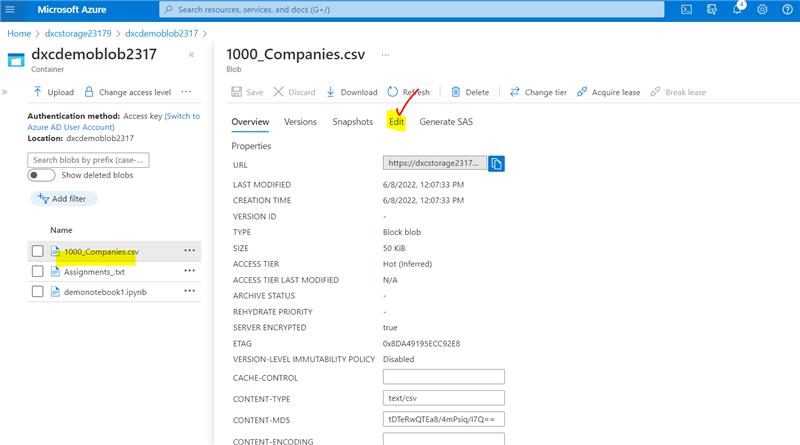
**STEP 1:** After creating we can upload any kind file into it and can view it.



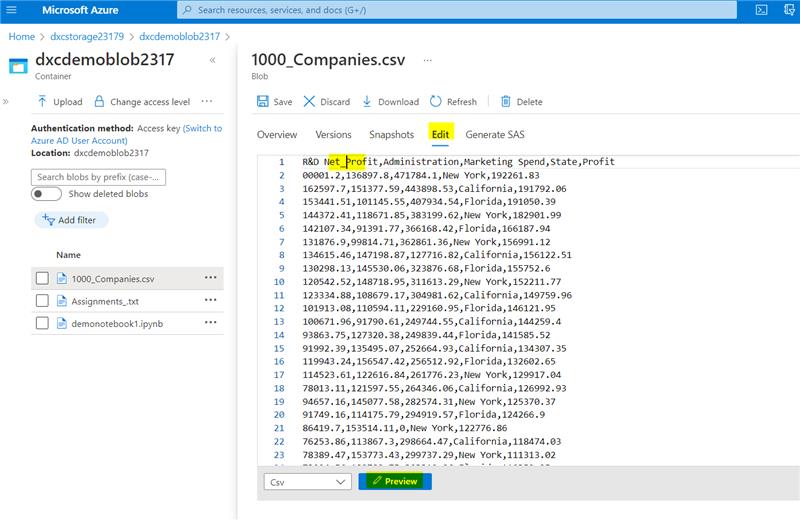


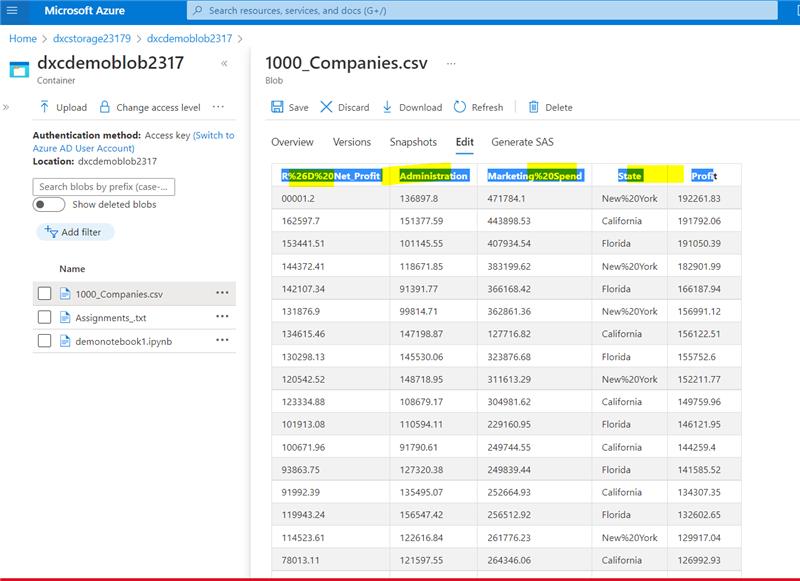
**STEP 2:** And after uploading we can open the file and can edit the details in it.





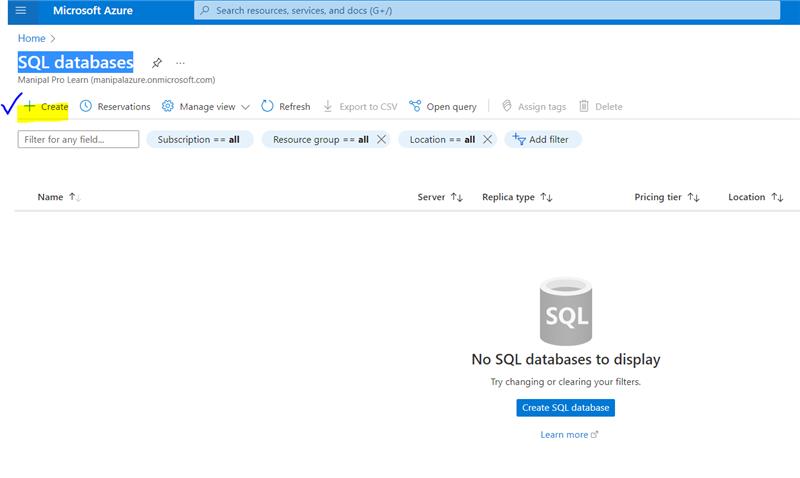
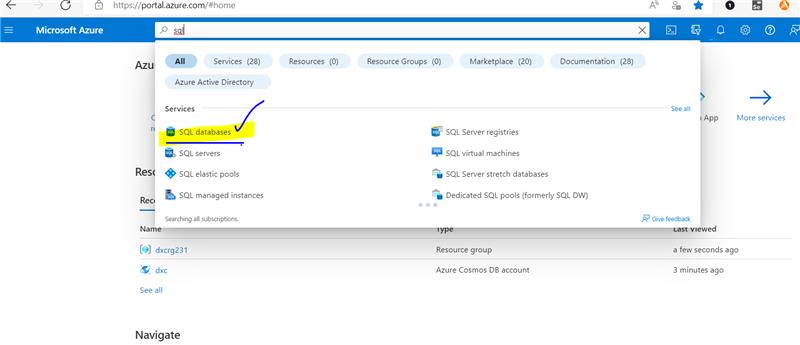
**STEP 3:** open the file and change the values by edit option.



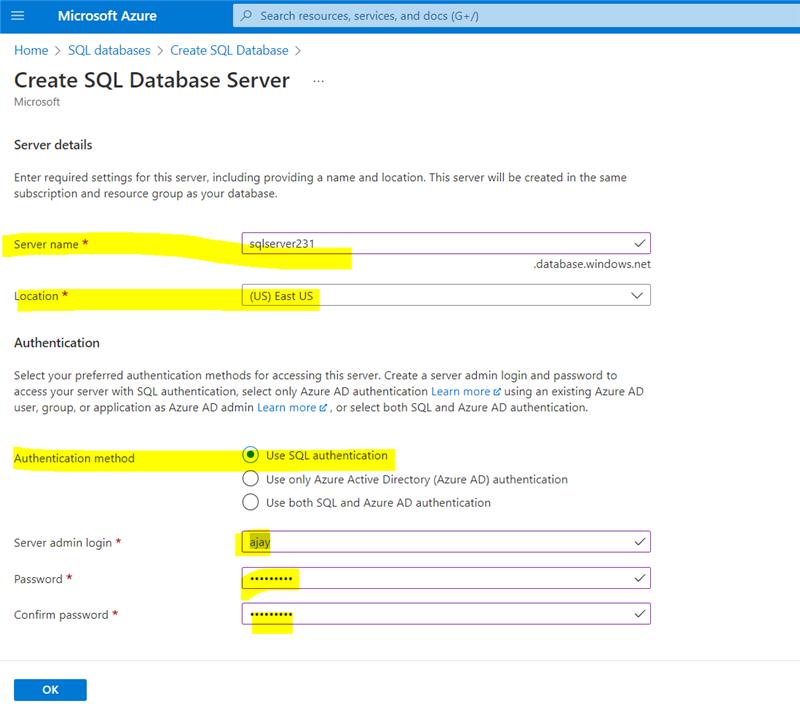


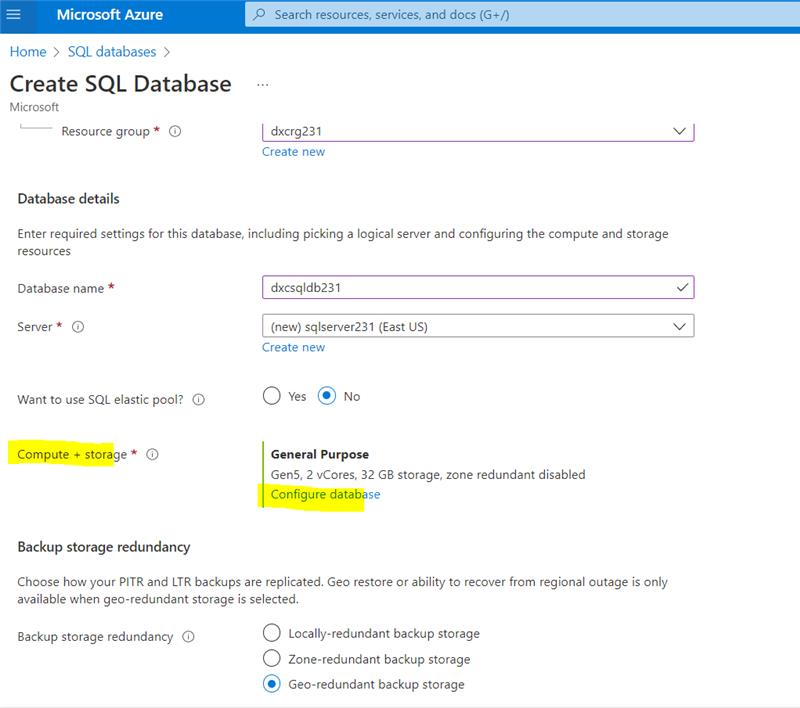
9. Explain the steps with screenshots how to create connect SQL Database in Azure ?

Solution:

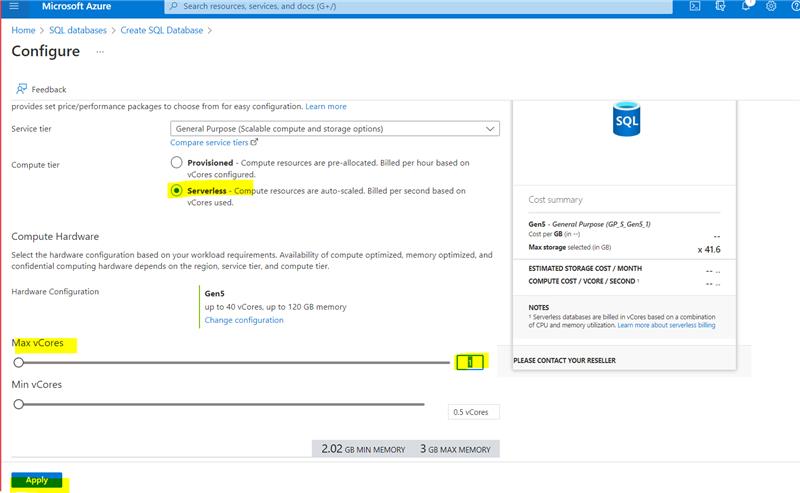
**STEP 1:** From the Azure portal menu or the Home page, select Create a resource. On the New page, search for and select SQL Databases.

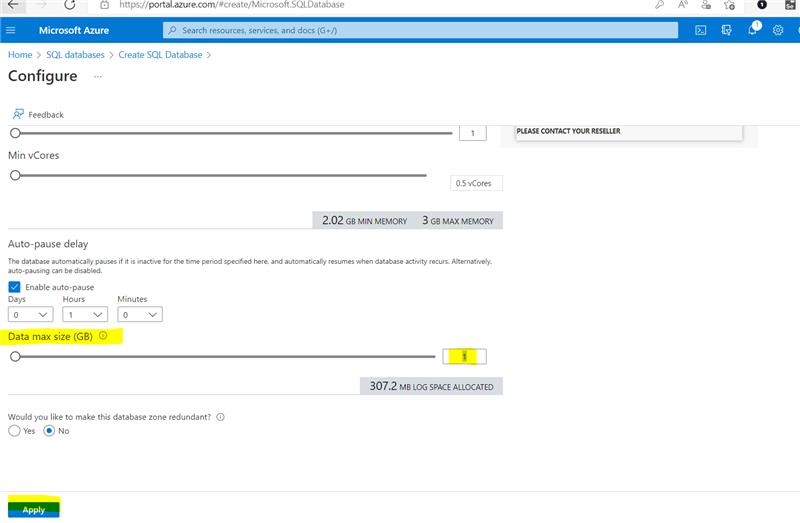
**STEP 2:** Creating SQL database database id, container id, partition key is given and , for server we have to create SQL Database server by giving the information shown below.



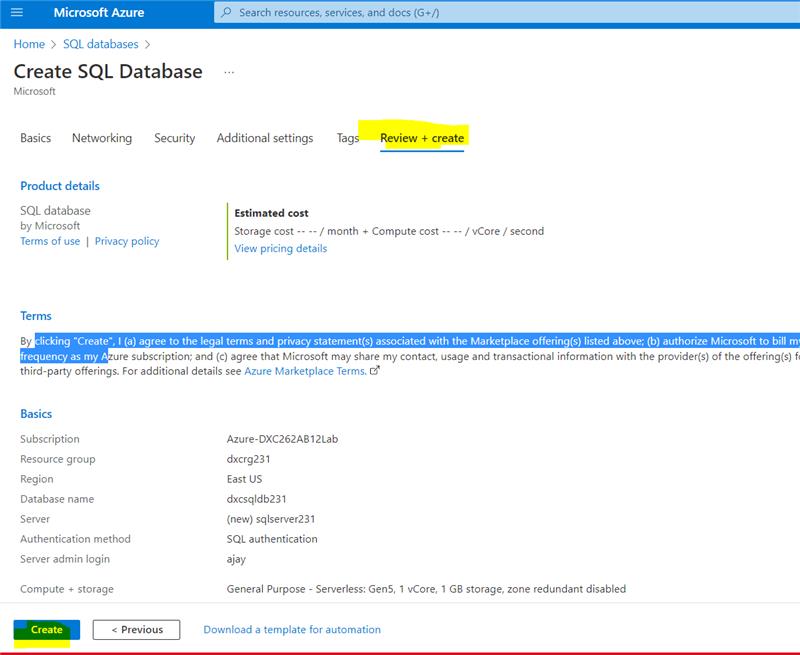


**STEP 3:** For comput + storage the MaxVCores and Data max size should be 1.





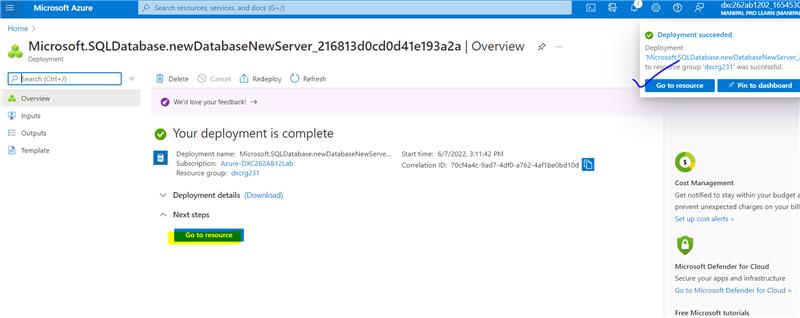
**STEP 4:** Now the SQL database will be created.

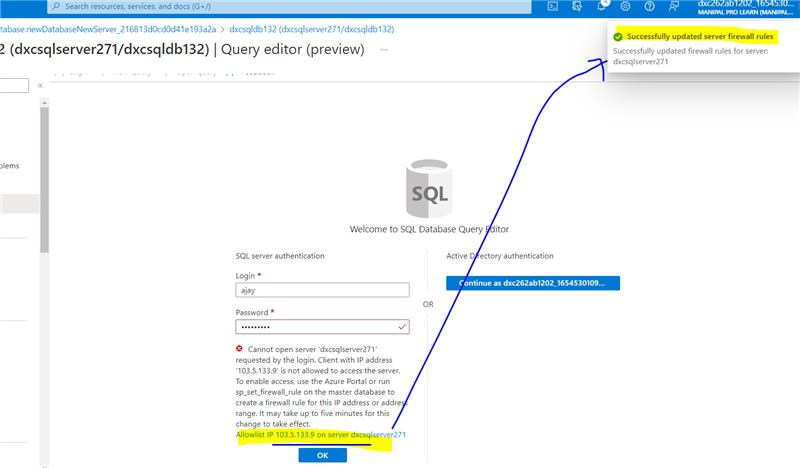


10. Explain the steps with screenshots how to insert data into azure SQL database ?

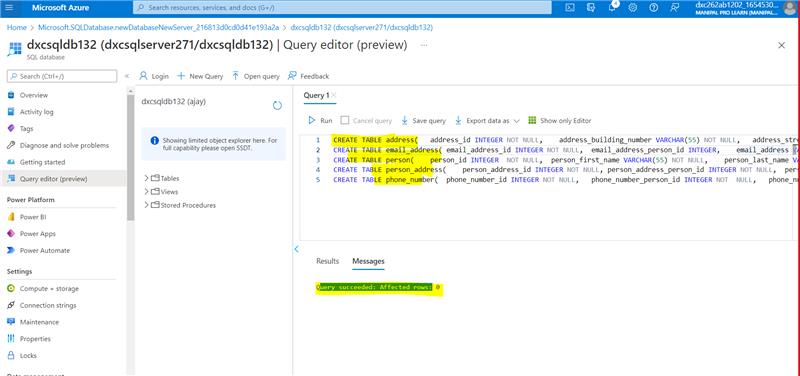
Solution:

**STEP 1:** For creating the database deployment takes place and for sql the login password should be given as in previous but we need to allow it due to firewall.

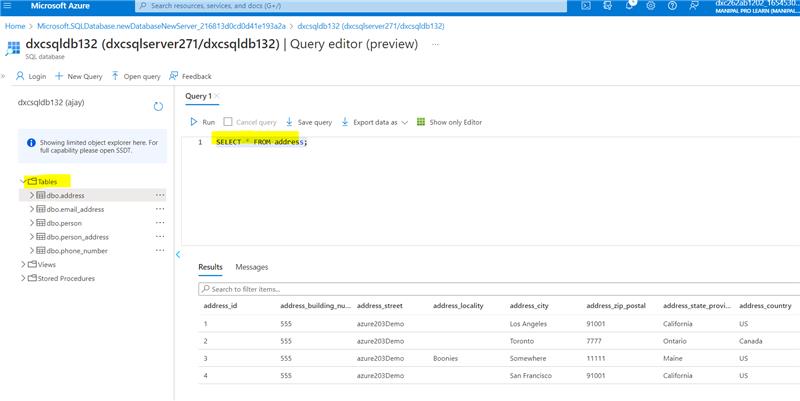




**STEP 2:** Now we need to create table and insert and can view the table by select.







RESULTS:

I HAVE SUCCESSFULLY ANSWERED ALL THE QUESTIONS AS PER ASSIGNMENT REQUIREMENT.

CONCLUSIONS:

All the questions have been solved successfully with all the concepts that have been covered in the training session. It’s really a great experience of learning while solving the cases. This assignment gave me immense confidence regarding my ability to upskill in new technologies.