

DXC AZURE ANALYTICS

Assignment-8

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ID: DXCAB12035

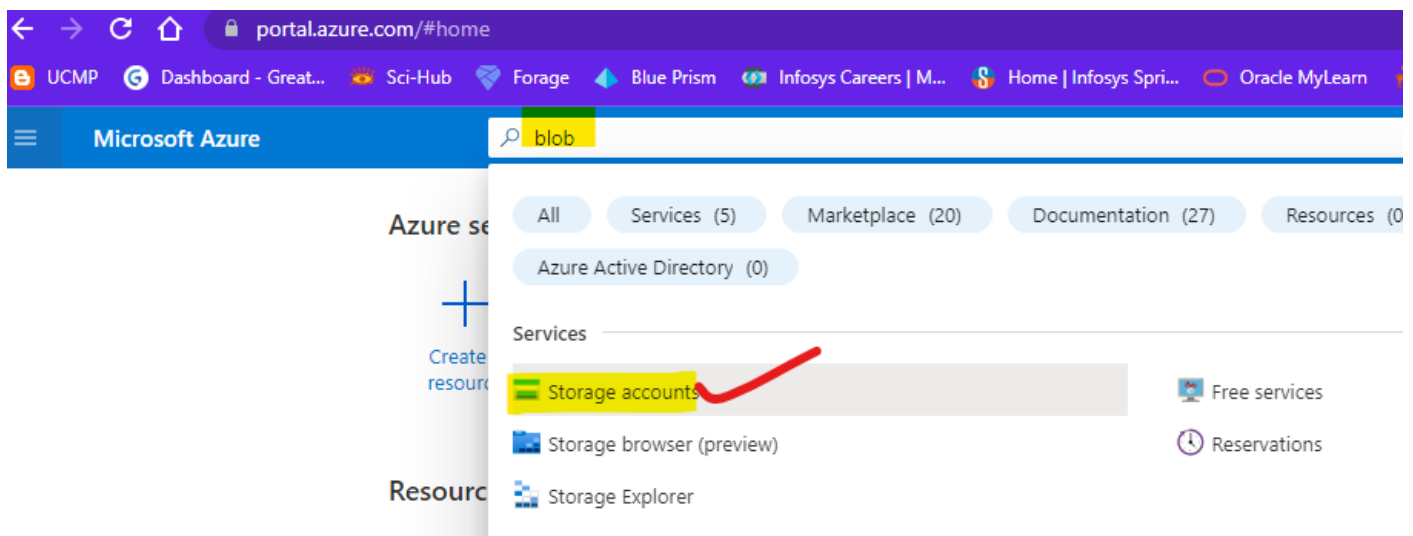
Date of submission: 08-06-2022

Batch: DXC-AZURE-ANALYTICS

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

Ans) to create blob storage (Also known as Storage account) in azure cloud we have to follow the following steps

Step-1 :



Step-2:

Create a storage account ...

[Basics](#) [Advanced](#) [Networking](#) [Data protection](#) [Encryption](#) [Tags](#) [Review + create](#)

Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription *

Resource group * [Create new](#)

Instance details

If you need to create a legacy storage account type, please click [here](#).

Storage account name ⓘ *

Region ⓘ *

Performance ⓘ *

☒ Standard: Recommended for most scenarios (general-purpose v2 account)

☐ Premium: Recommended for scenarios that require low latency.

Redundancy ⓘ *


☒ Make read access to data available in the event of regional unavailability.

[Review + create](#)

[< Previous](#)

[Next : Advanced >](#)

Step-3:

 Microsoft Azure Search resources, services, and documentation

Home > Storage accounts >

Create a storage account

Validation passed

Basics

Advanced

Networking

Data protection

Encryption

Tags

Review & create

Basics

Subscription	Azure-DXC262AB12Lab
Resource Group	dxccorg231
Location	eastus
Storage account name	dxccorgsa231
Deployment model	Resource manager
Performance	Standard
Replication	Read-access geo-redundant storage (RA-GRS)

Advanced

Secure transfer	Enabled
Allow storage account key access	Enabled
Allow cross-tenant replication	Enabled
Default to Azure Active Directory authorization in the Azure portal	Disabled
Blob public access	Enabled
Minimum TLS version	Version 1.2
Enable hierarchical namespace	Disabled
Enable network file system v3	Disabled
Access tier	Hot
Enable SFTP (preview)	Disabled
Large file shares	Disabled

Networking

Network connectivity	Public endpoint (all networks)
----------------------	--------------------------------

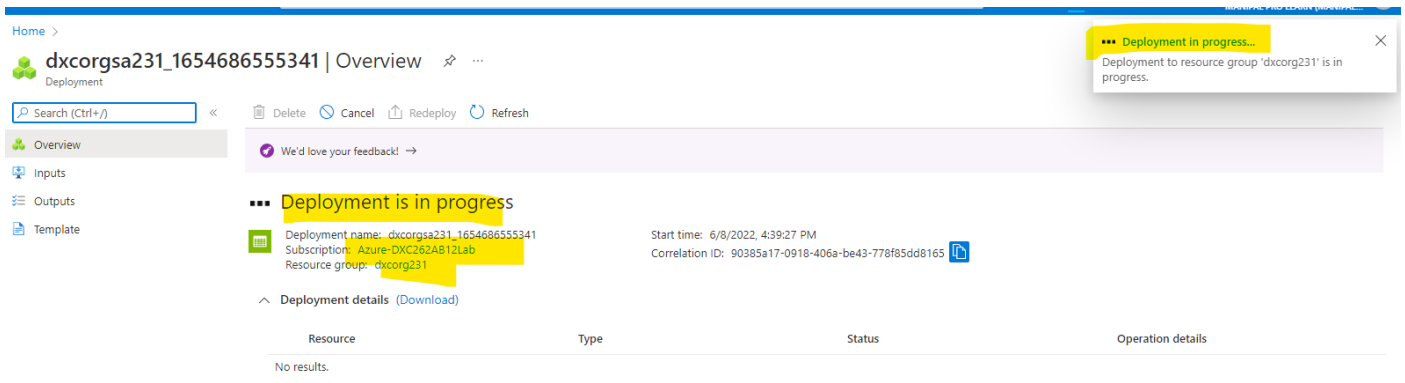
Create

< Previous

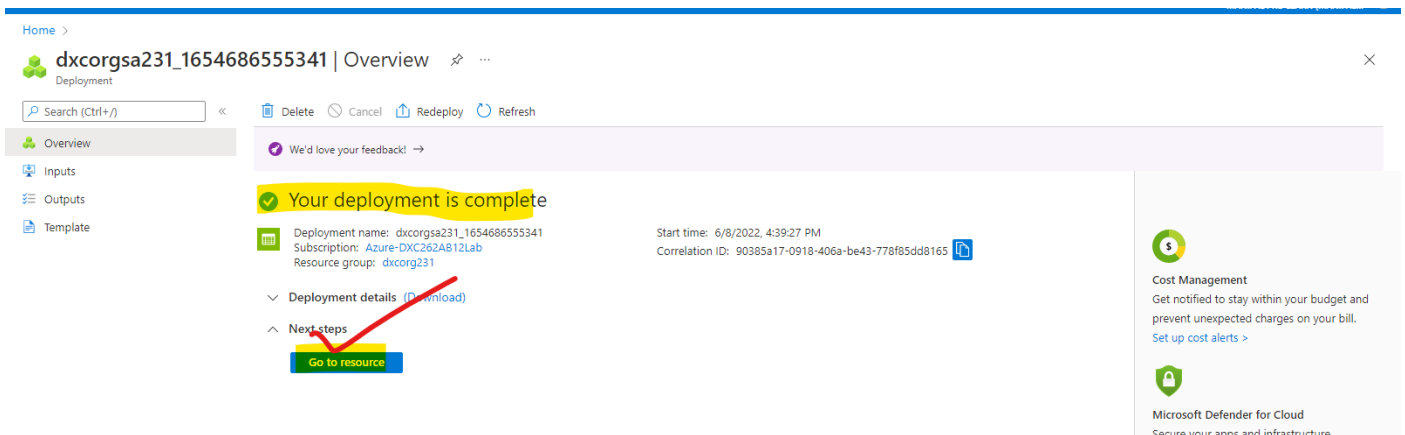
Next >

[Download a template for automation](#)

Step-4:



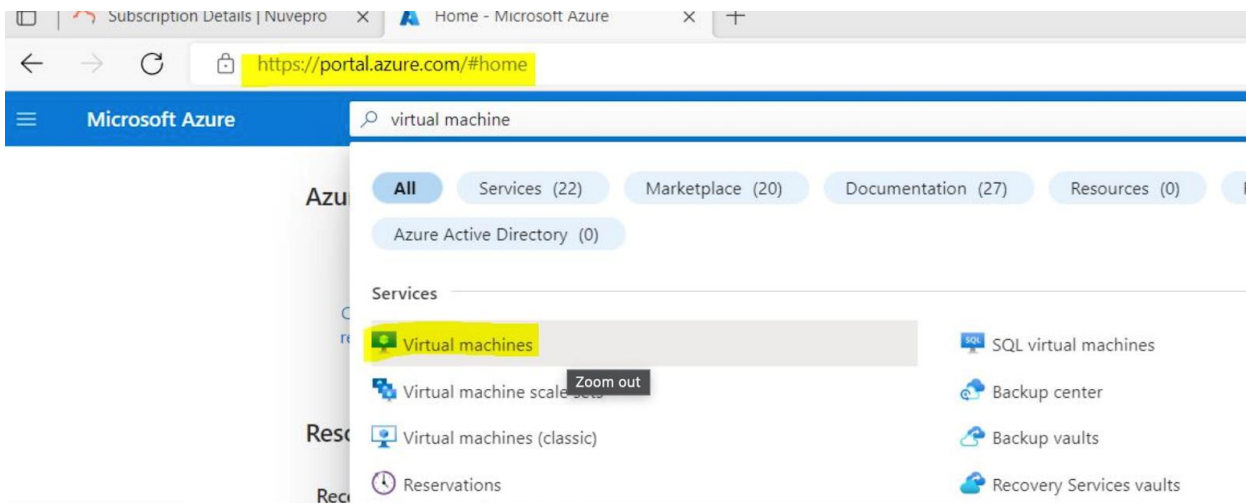
Step-5: The storage Account is created successfully.



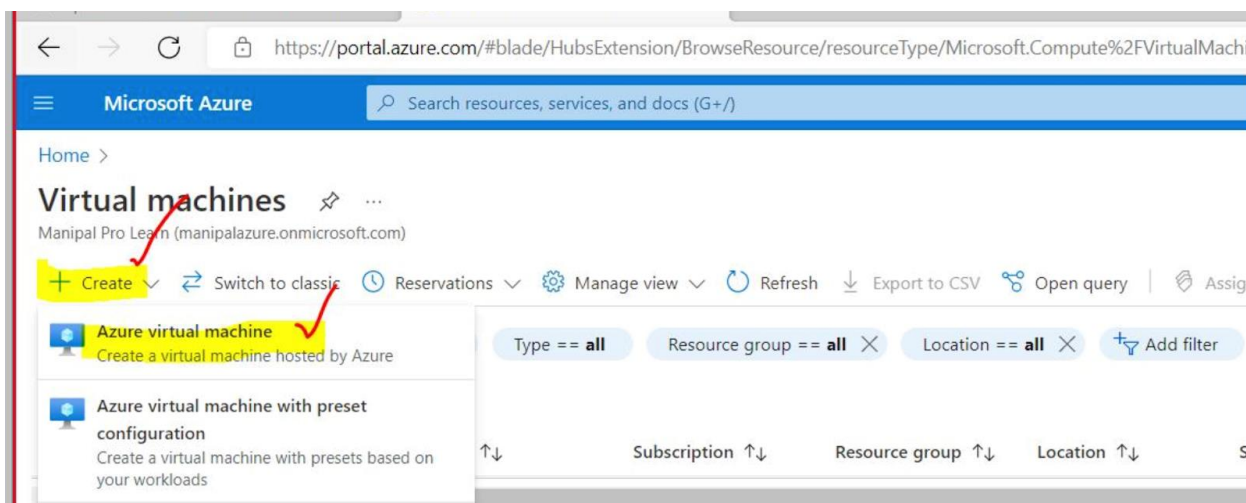
2. Explain the steps with screenshots how to create Virtual machine & how to connect from
 - (i) Local Computer - CMD method ?
 - (ii) Using Azure cloud Shell?
 - (iii) Also using Azure Bastion ?

Ans) we can create virtual machines in azure by following the three method

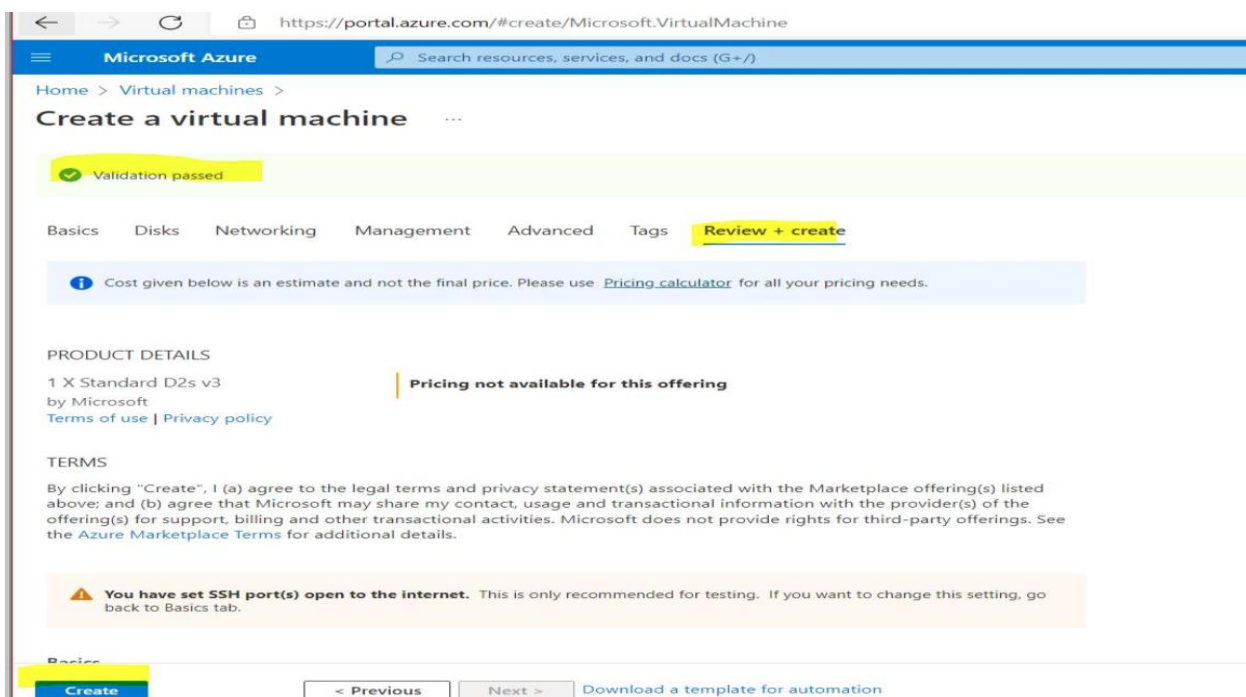
Ans: Step 1: Login to Azure and click on “Virtual Machine”.



Step 2: Click on “create” and then click on “Azure Virtual Machine” to create a Virtual Machine.



Step 3: Complete all the required fields and click on “create” after reviewing to deploy a virtual machine.



Step 4: Generate new key pairs.

Create a virtual machine ...

Validation passed

Basics Disks Networking Management Advanced Tags **Review + create**

i Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

PRODUCT DETAILS

1 X Standard D2s v3
by Microsoft
[Terms of use](#) | [Privacy policy](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the offering(s) for support, billing and other transactional activities. Microsoft does not provide right of return for the Azure Marketplace Terms for additional details.

Generate new key pair

i An SSH key pair contains both a public key and a private key. **Azure doesn't store the private key.** After the SSH key resource is created, you won't be able to download the private key again. [Learn more](#)

Download private key and create resource

Return to create a virtual machine

⚠ You have set SSH port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.

Basics

Create < Previous Next > Download a template for automation

Step 5: Connect to a virtual machine using either of the three methods.

(i) Local Computer - CMD method: connect using ssh.

https://portal.azure.com/#@manipalazure.onmicrosoft.com/resource/subscriptions/257689f4-4b51-42bc-91e4-7dd514a5be23/resource

Microsoft Azure Search resources, services, and docs (G+/)

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20220608100728 >

dxsvm2317 Virtual machine

Search (Ctrl+/) << **Connect** Start Restart Stop Capture Delete Refresh Open in mobile

SSH

RDP

Bastion

Status: Running

Location: East US (Zone 1)

Subscription (move): [Azure-DXC262AB12Lab](#)

Subscription ID: 257689f4-4b51-42bc-91e4-7dd514a5be23

Availability zone: 1

Tags (edit): [Click here to add tags](#)

Operating system

Size

Public IP address

Virtual network/s

DNS name

Properties Monitoring Capabilities (7) Recommendations Tutorials

To connect with VM run the key path in the command prompt.

Microsoft Azure

Search resources, services, and docs (G+)

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20220608100728 > dxcvm2317

dxcvm2317 | Connect ...

Virtual machine

Search (Ctrl+/)

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Networking
Connect
Disks
Size
Microsoft Defender for Cloud
Advisor recommendations
Extensions + applications
Continuous delivery
Availability + scaling
Configuration
Identity

To improve security, enable just-in-time access on this VM. →

RDP **SSH** Bastion

Connect via SSH with client

1. Open the client of your choice, for example [WSL on Windows](#), [Terminal on Mac](#) or [Shell on Linux](#).
2. Ensure you have read-only access to the private key. Chmod is only supported on Linux subsystems (e.g. WSL on Windows or Terminal on Mac).
`chmod 400 <keyname>.pem`
3. Provide a path to your SSH private key file. Replace/reset your SSH private key. [?](#)
Private key path
`~/ssh/azureuser`
4. Run the example command below to connect to your VM.
`ssh -i <private key path> azureuser@20.106.184.70` ✓

Can't connect?
[Test your connection](#)
[Troubleshoot SSH connectivity issues](#)

How's it going?
[Tell us about your connection experience](#)

```
Microsoft Windows [version 10.0.19044.1706]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd C:\Users\KITS\Documents\
C:\Users\KITS\Documents>ssh -i C:\Users\KITS\Documents\dxcvm2317_key.pem azureuser@20.106.184.70
The authenticity of host '20.106.184.70 (20.106.184.70)' can't be established.
ECDSA key fingerprint is SHA256:7hr8j6uIrKJnidzL2jxQ9pdw6+KNSgbAkjXYV4srwDk.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '20.106.184.70' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.13.0-1025-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Wed Jun  8 04:54:12 UTC 2022

System load:  0.0          Processes:      130
Usage of /:   4.8% of 28.90GB Users logged in:    0
Memory usage: 3%          IPv4 address for eth0: 10.0.0.4
Swap usage:   0%

1 update can be applied immediately.
To see these additional updates run: apt list --upgradable

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo root" for details.
```

(ii) Using Azure cloud Shell: Click on CLI/PS to connect to VM using cloud shell.

Microsoft Azure

Search resources, services, and docs (G+)

Home > dxcvm2317 Virtual machine

Search (Ctrl+/)

Connect Start Restart Stop Capture Delete Refresh Open in mobile **CLI/PS** Feedback

Essentials

Resource group (move) : dxcrg2317
Status : Running
Location : East US (Zone 1)
Subscription (move) : Azure-DXC262A812Lab
Subscription ID : 257689f4-4b51-42bc-91e4-7dd514a5be23
Availability zone : 1
Tags (edit) : [Click here to add tags](#)

Operating system : Linux (ubuntu 20.04)
Size : Standard D2s v3 (2 vcpus, 8 GiB memory)
Public IP address : 20.106.184.70
Virtual network/subnet : dxcrg2317-vnet/default
DNS name : Not configured

Properties Monitoring Capabilities (7) Recommendations Tutorials

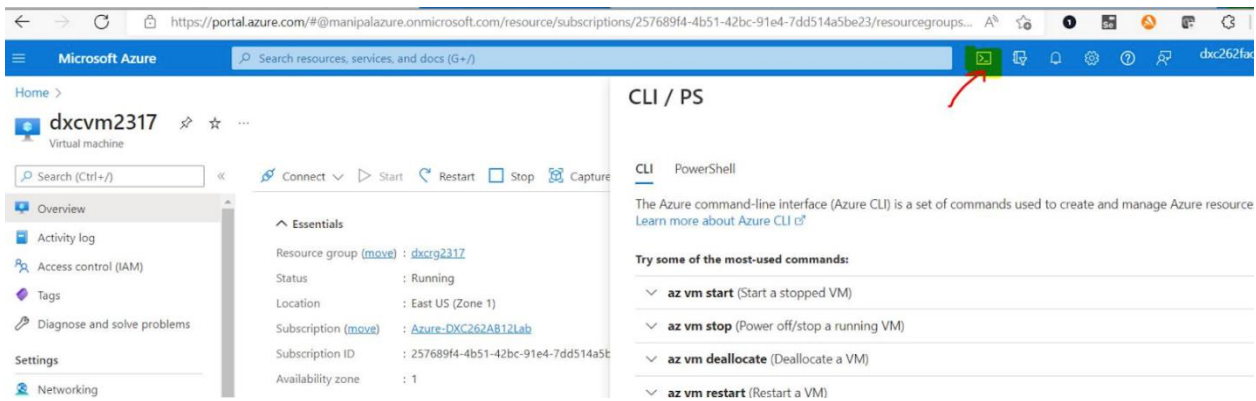
Virtual machine

Computer name : dxcvm2317
Health state : -
Operating system : Linux (ubuntu 20.04)
Publisher : canonical

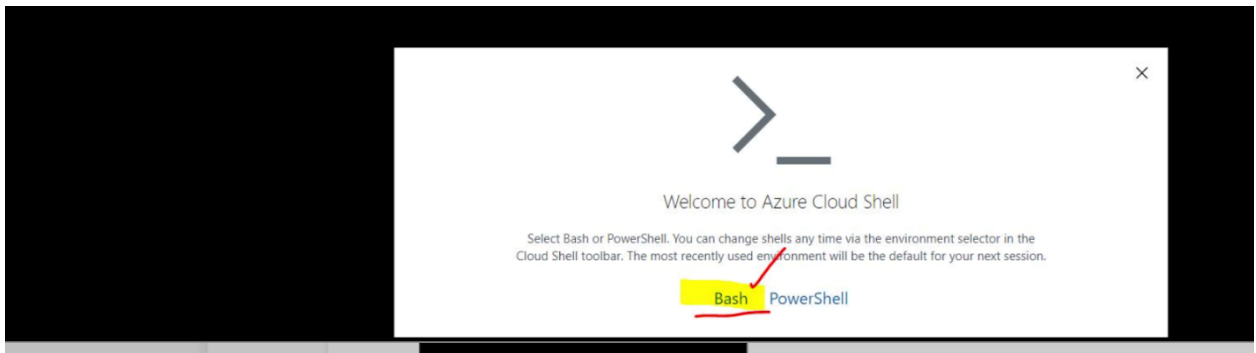
Networking

Public IP address : 20.106.184.70
Public IP address (IPv6) : -
Private IP address : 10.0.0.4
Private IP address (IPv6) : -

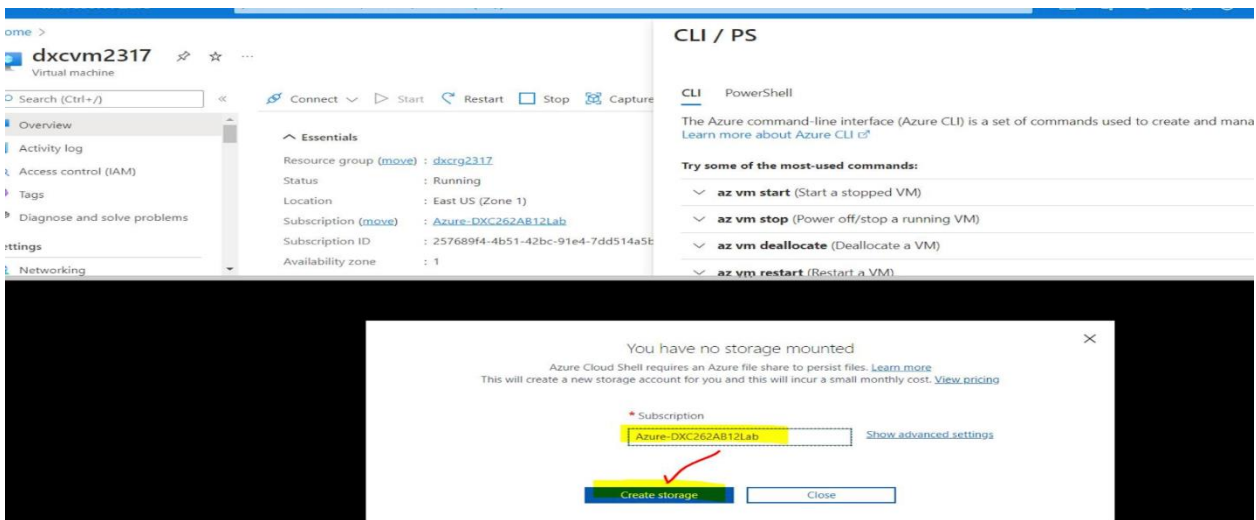
Click on the icon beside the search bar to open Azure Cloud Shell.



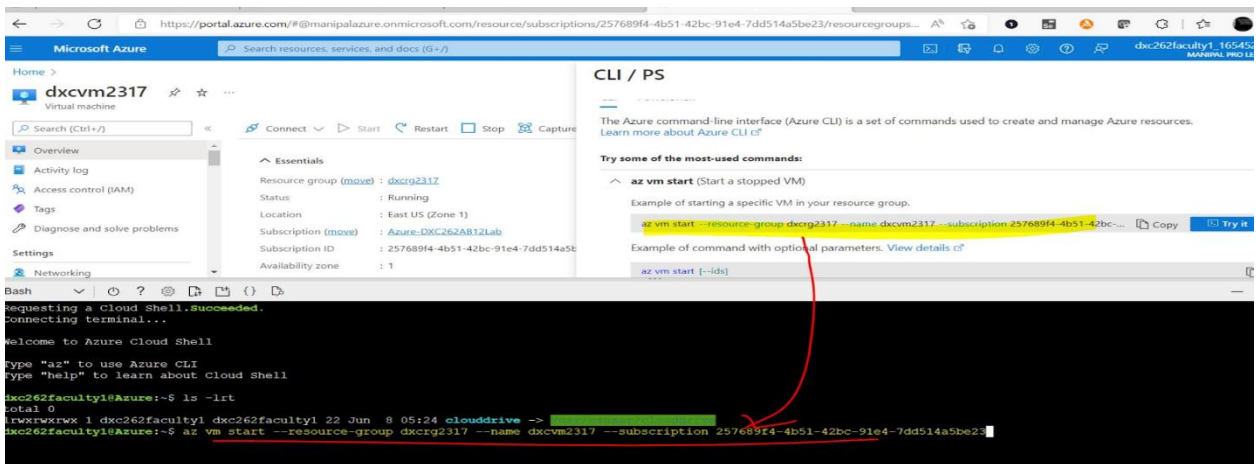
Now click on “bash” to connect to your virtual Machine.



Now create storage as shown in the below screenshot.

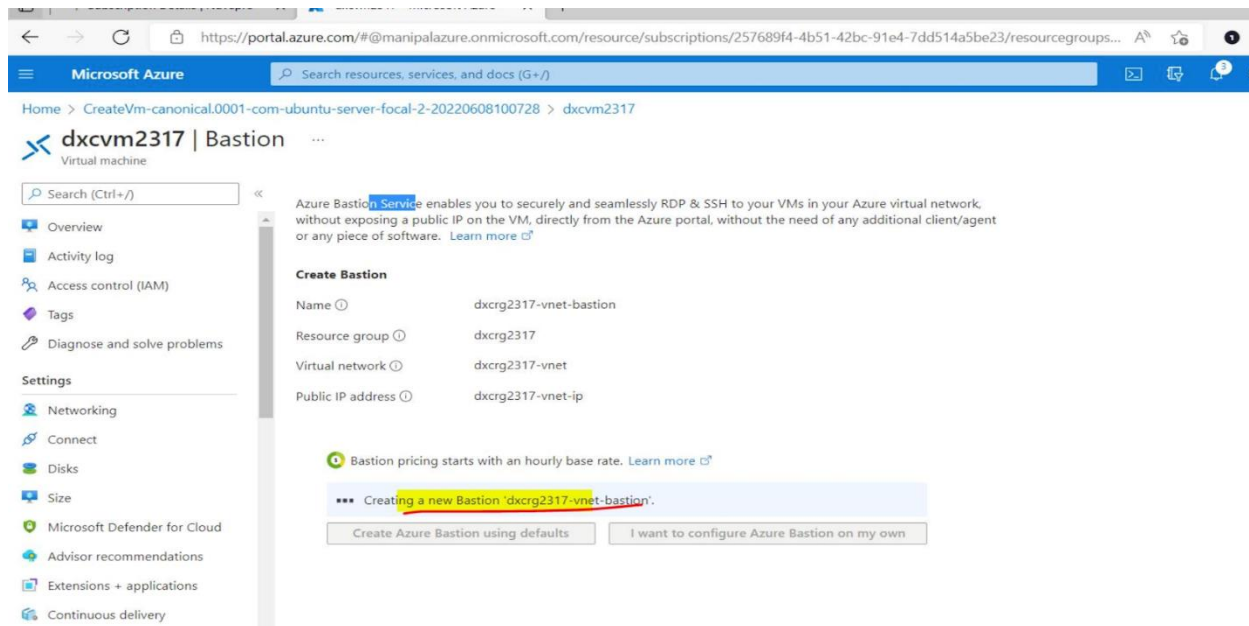


Now to start the vm use the az vm start command as shown.



(iii) Also using Azure Bastion:

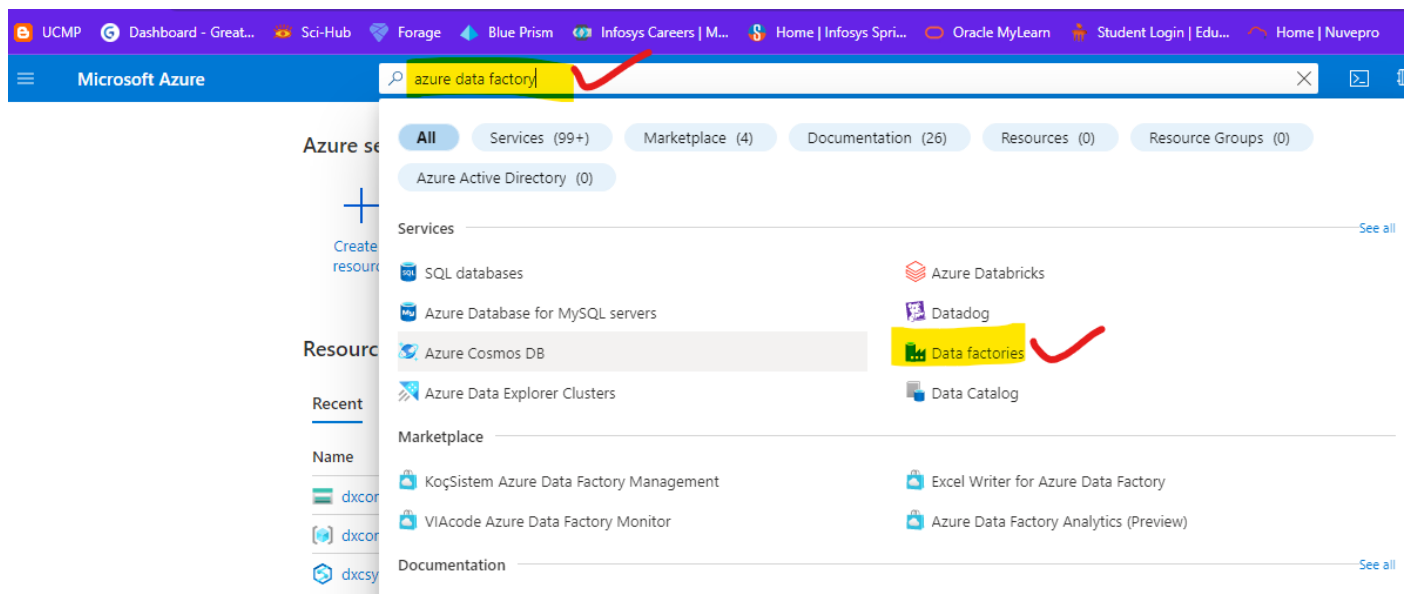
Click on connect and select “bastion” to create a virtual machine using Azure Bastion.



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

Ans) These are the following steps to create Data factory

Step-1: search for data factory in search bar



Step-2: click on create button

☰

Microsoft Azure

🔍 Search resources, services, and docs (G+/)

Home >

Data factories

☆ ...

Manipal Pro Learn (manipalazure.onmicrosoft.com)

+ Create

⚙️ Manage view ▾

🔄 Refresh

⬇️ Export to CSV

🔗 Open query

|

🏷️ Assign tags

Filter for any field...

Subscription == all

Type == all

Resource group == all ✕

Location

Name ↑↓

Type ↑↓

Step-3:

Create Data Factory ...

Basics Git configuration Networking Advanced Tags Review + create

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ Azure-DXC262AB12Lab ✓

Resource group * ⓘ dxccorg231 ✓

[Create new](#)

Instance details

Name * ⓘ dxccdf231 ✓

Region * ⓘ East US ✓

Version * ⓘ V2 (Recommended) ✓

[Review + create](#) [< Previous](#) [Next : Git configuration >](#)

<https://portal.azure.com/#>

Create Data Factory ...

✓ Validation Passed

Basics

Git configuration

Networking

Advanced

Tags

Review + create

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; and (b) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Basics

Subscription	Azure-DXC262AB12Lab
Resource group	dxccorg231
Name	dxcdf231
Region	East US
Version	V2 (Recommended)

Networking

Connect via Public endpoint

Create

< Previous

Next >

[Download a template for automation](#)

Step-6: wait it for deployment. and once its is done

Home > Microsoft.DataFactory-20220608171943 >

dxcdf231 Data factory (V2) ⚙️ ☆ ...

Search (Ctrl+/) Delete

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
 - Networking
 - Managed identities
 - Properties
 - Locks
- Getting started
- Quick start

Essentials

Type : Data factory (V2)
Getting started : [Quick start](#)

Resource group (move) : **dxccorg231**
Status : **Succeeded**
Location : East US
Subscription (move) : **Azure-DXC262AB12Lab**
Subscription ID : 48ef0049-33b2-4e37-bec3-5f8394096bd2

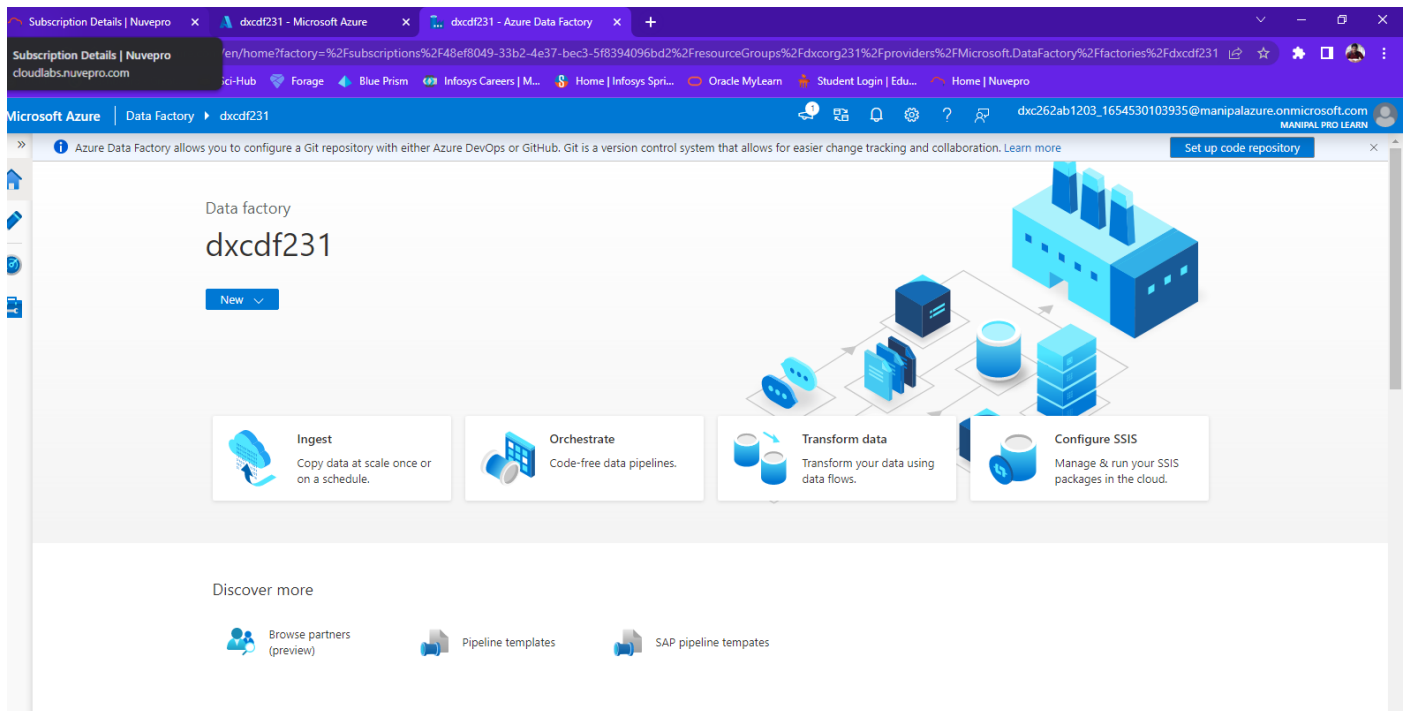
Getting started

Open Azure Data Factory Studio
Start authoring and monitoring your data pipelines and data flows.
[Open C#](#)

Read documentation
Learn how to be productive quickly. Explore concepts, tutorials, and samples.
[Learn more](#)

Monitoring

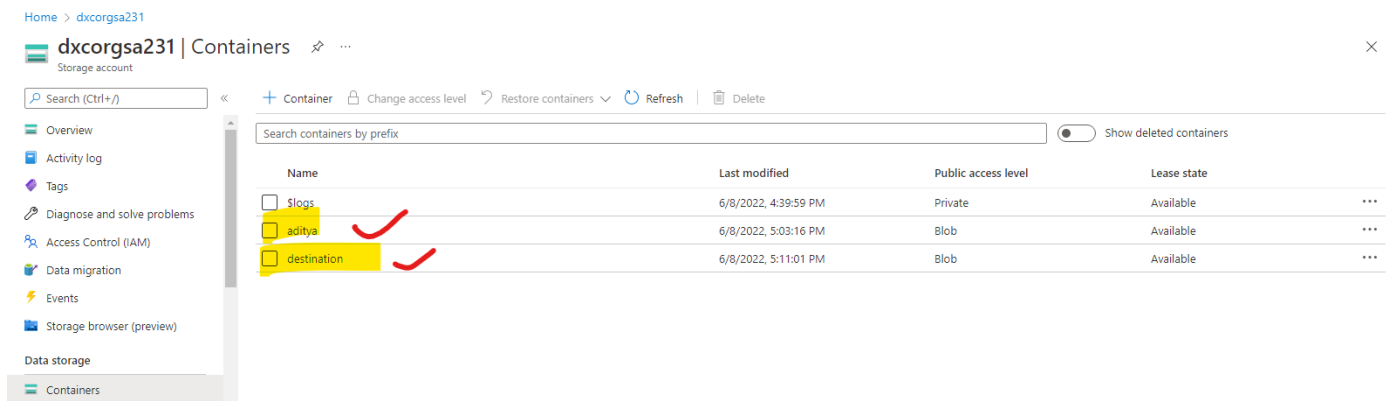
Step-7: after clicking on the open button the data factory window will open in new window



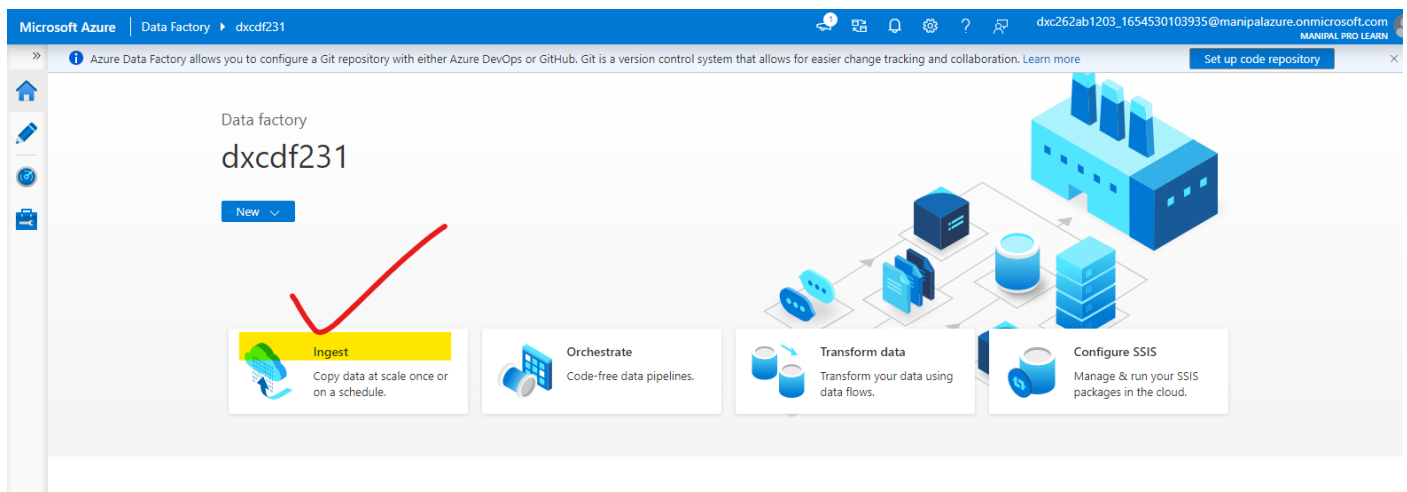
4. Explain the steps with screenshots how to copy data from source blob to destination blob ?

Ans) After creating the source blob(in my case blob name -“aditya”) and destination blob is destination

Step-1:



Step-2:after That open data factory click on ingest



Step-3: after clicking on ingest follow these steps

Copy Data tool

- 1 Properties
- 2 Source
- 3 Target
- 4 Settings
- 5 Review and finish

Use Copy Data Tool to perform a one-time or scheduled data load from 90+ data sources. Follow the wizard experience to specify your data loading settings, and let the Copy Data Tool generate the artifacts for you, including pipelines, datasets, and linked services. [Learn more](#)

Properties

Select copy data task type and configure task schedule

Task type



Built-in copy task

You will get single pipeline to copy data from 90+ data source easily.



Metadata-driven copy task

You will get parameterized pipelines which can read metadata from an external store to load data at a large scale.

You will get single pipeline to quickly copy objects from data source store to destination in a very intuitive manner.

Task cadence or task schedule *

☒ Run once now ☐ Schedule ☐ Tumbling window

< Previous

Next >

Cancel

Step-4: give the data stores account location and required details for source data

Microsoft Azure | Data Factory | dcof231

Copy Data tool

Source data store

Specify the source data store for the copy task. You can use an existing data store connection or specify a new data store.

Source type: Azure Blob Storage

Connection: Select...

New connection

New linked service

Azure Blob Storage

Connect via integration runtime: AutoResolveIntegrationRuntime

Authentication type: Account key

Account selection method: From Azure subscription

Azure subscription: Azure-20C262AB12Lao (d8e604b-33b2-4e37-bec3-5f6394096bd2)

Storage account name: dcof231

Test connection

Create

Step-5: give the data stores account location and required details for destination data

Copy Data tool

- 1 Properties
- 2 Source
- 3 Target
- 4 Settings
- 5 Review and finish

Destination data store

Specify the destination data store for the copy task. You can use an existing data store connection or specify a new data store.

Target type

Azure Blob Storage

Connection *

AzureBlobStorage2

Folder path *

If the identity you use to access the data store only has permission to subdirectory instead of the entire account, specify the path to browse.

/destination

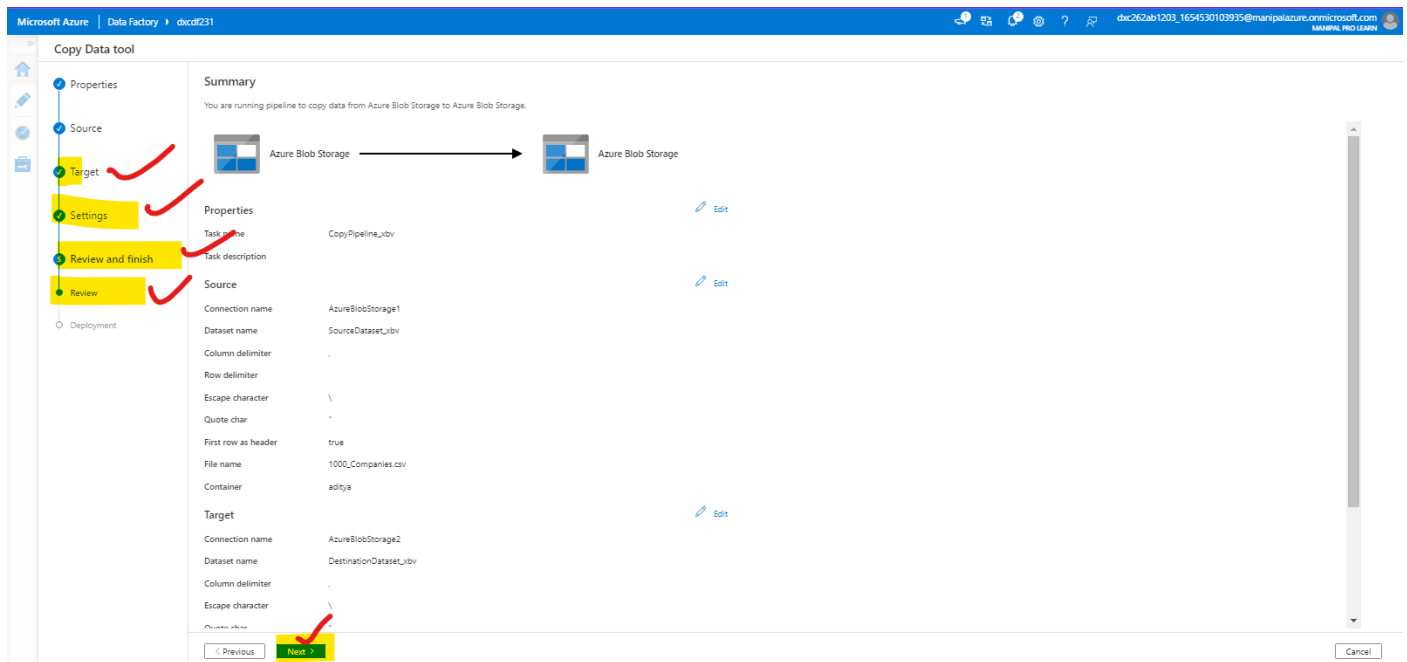
File name

Copy behavior

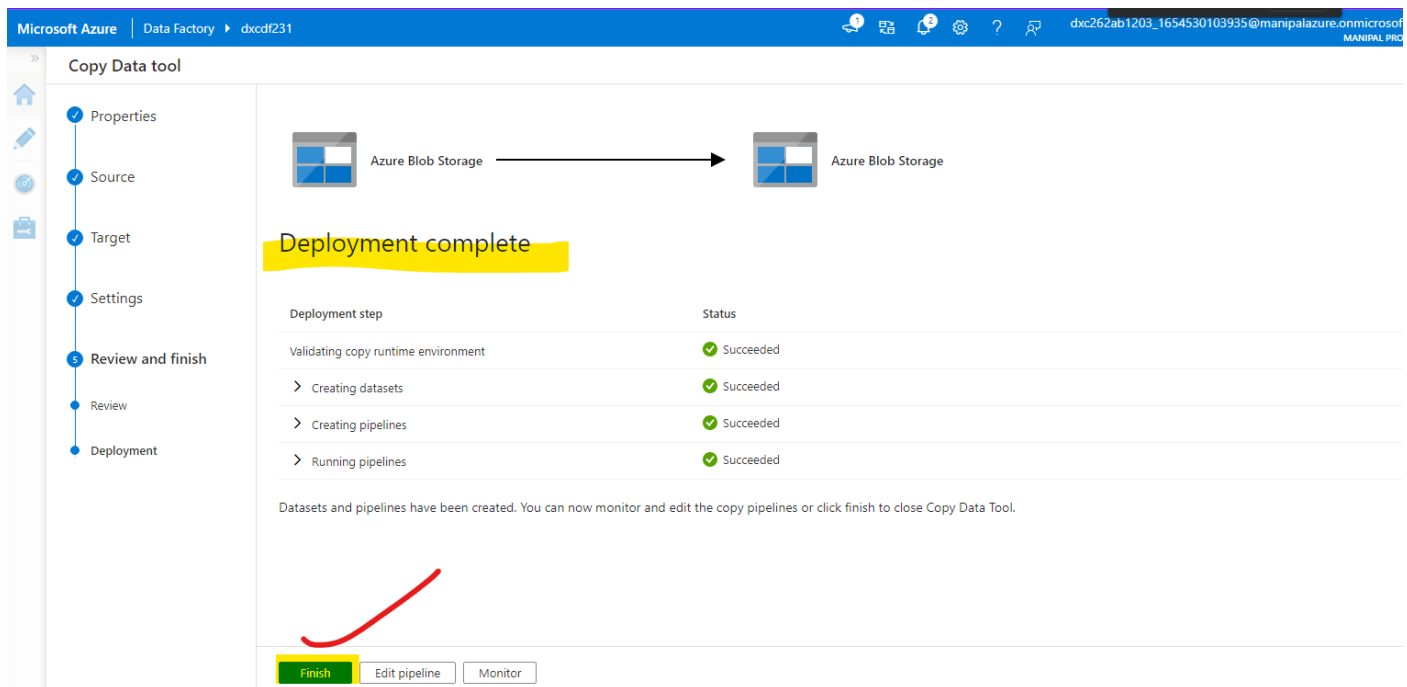
None

Max concurrent connections

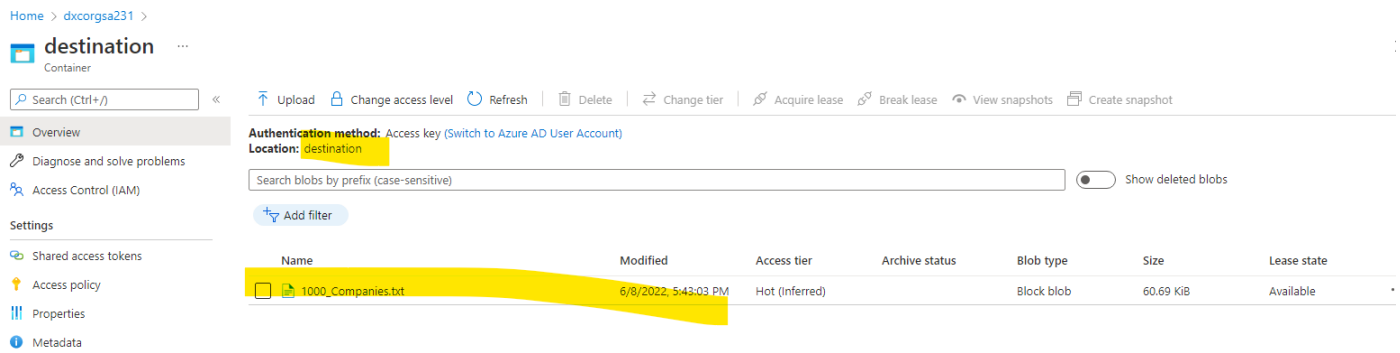
Block size (MB)



Step-6: the pipe lines are created and data is ready to transfer



Step-7: the data is shared successfully from source to destination



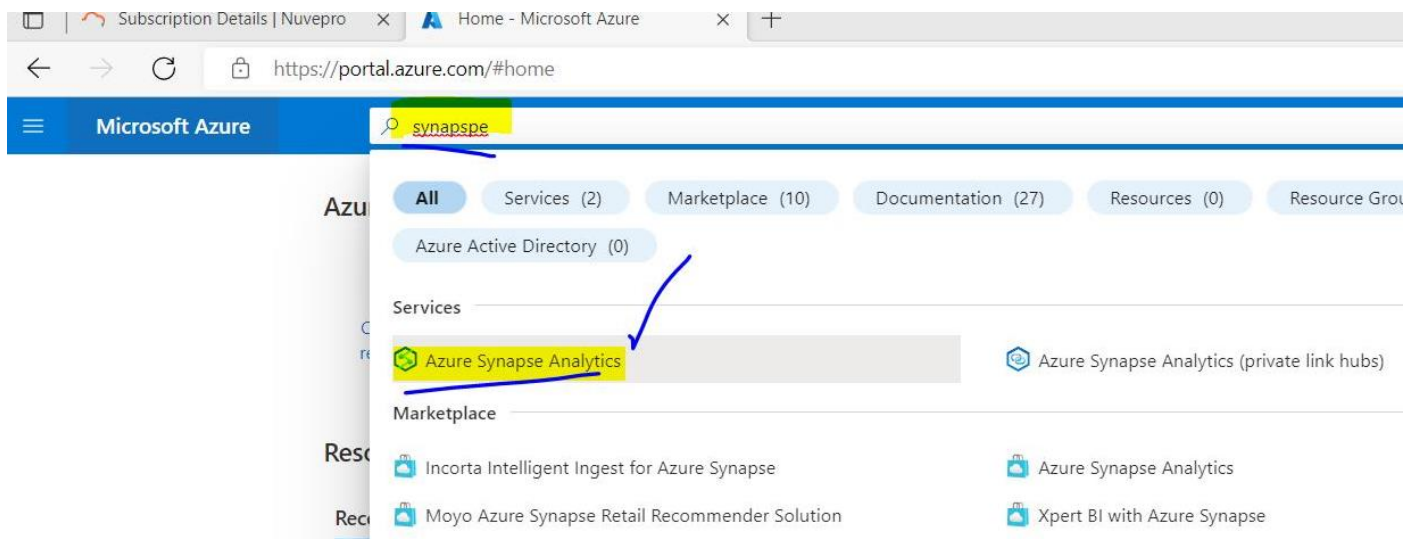
5. Explain the steps with screenshots how to create Virtual Network in Azure?

Ans)

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

Ans)

Step-1:



Step-2:

← → ↻ 🔒 https://portal.azure.com/#create/Microsoft.Synapse

Microsoft Azure 🔍 Search resources, services, and docs (G+)

Home >


Azure Synapse Analytics

Manipal Pro Learn (manipalazure.onmicrosoft.com)

+ Create ⚙️ Manage view ↺ Refresh ⬇ Export to CSV 🔗 Open query 🏷 Assign tags

Filter for any field... Subscription == all Resource group == all Location == all + Add filter

Name ↑↓



No Azure Synapse Analytics to display

Synapse Analytics is a fully-managed service to build modern data warehouses for enterprises. Synapse Analytics brings together SQL, Apache Spark, Orchestration, and Integration into a single workspace, dramatically reducing

Step-3:

Subscription Details | Nuvepro x Create Synapse workspace - Mic x +

← → ↻ 🔒 https://portal.azure.com/#create/Microsoft.Synapse

Microsoft Azure 🔍 Search resources, services, and docs (G+)

Home > Azure Synapse Analytics >

Create Synapse workspace

Create a Synapse workspace to develop an enterprise analytics solution in just a few clicks.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all of your resources.

Subscription * ⓘ Azure-DXC262AB12Lab

Resource group * ⓘ dxcrgr2317
Create new

Managed resource group ⓘ Enter managed resource group name

Workspace details

Name your workspace, select a location, and choose a primary Data Lake Storage Gen2 file system to serve as the default location for logs and job output.

Workspace name * dxcsynapse231 ✓

Region * East US ✓

Select Data Lake Storage Gen2 * ⓘ ☒ From subscription ☐ Manually via URL

Account name * ⓘ (New) datastore2317
Create new

File system name * (New) filesystem213
Create new

Review + create < Previous Next: Security >

Step-4:

The screenshot shows the 'Create Synapse workspace' page in the Azure portal, specifically the 'Security' tab. The page is titled 'Create Synapse workspace' and has tabs for 'Basics', 'Security', 'Networking', 'Tags', and 'Review + create'. The 'Security' tab is active, and the instruction 'Configure security options for your workspace.' is displayed. Under the 'Authentication' section, the 'Use both local and Azure Active Directory (Azure AD) authentication' option is selected. The 'SQL Server admin login' is set to 'sqladminuser'. The 'SQL Password' and 'Confirm password' fields are filled with masked characters and have checkmarks indicating they are valid. The 'System assigned managed identity permission' section has a checkbox for 'Allow network access to Data Lake Storage Gen2 account.' which is unchecked. A warning message states: 'The selected Data Lake Storage Gen2 account does not restrict network access using any network access rules, or you selected a storage account manually via URL under Basics tab.' At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next: Networking >'. The URL in the browser is 'https://portal.azure.com/#create/Microsoft.Synapse'.

Step-5:

The screenshot shows the 'Overview' page for the resource 'Microsoft.Azure.SynapseAnalytics-20220608153006'. The page has a search bar and a sidebar with links to 'Overview', 'Inputs', 'Outputs', and 'Template'. The main content area shows a green checkmark and the text 'Your deployment is complete'. Below this, the deployment details are listed: 'Deployment name: Microsoft.Azure.SynapseAnalytics-20220608153...', 'Subscription: Azure-DXC262AB12Lab', and 'Resource group: dxcrg2317'. There is a 'Start time' and 'Correlat' link. The 'Deployment details' section is expanded, showing a 'Download' link. The 'Next steps' section has a button labeled 'Go to resource group'.

Step-6: the synapse creation is done

The screenshot shows the Azure Synapse Studio interface for a workspace named 'dxcsynapse23178'. The left sidebar contains navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Azure Active Directory, Properties, Locks), Analytics pools (SQL pools, Apache Spark pools, Data Explorer pools (preview)), and Security (Encryption, Networking). The main content area is divided into 'Essentials' and 'Getting started' sections. The 'Essentials' section displays key information: Resource group (dxcrq2317), Status (Succeeded), Location (East US), Subscription (Azure-DXC262AB12Lab), Subscription ID (257689f4-4b51-42bc-91e4-7dd514a5be23), Managed virtual network (No), Managed Identity object ID (1f1d84d4-5086-48ea-affe-7dd89abb4e76), Workspace web URL (https://web.azuresynapse.net/workspace=%2fsubscriptions%2f25...), and Tags (Click here to add tags). The 'Getting started' section offers two options: 'Open Synapse Studio' to start building a fully-integrated analytics solution, and 'Read documentation' to learn how to be productive quickly. Below these sections is an 'Analytics pools' section with a search bar.

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

Ans)

Step-1 :

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo and a search bar. Below the search bar, there are tabs for 'All', 'Services (5)', 'Marketplace (20)', 'Documentation (27)', and 'Resources (0)'. The 'Services' tab is selected, and the search results for 'blob' are displayed. The 'Storage accounts' option is highlighted with a red checkmark, indicating it is the selected service to create.

Step-2:

[Home](#) > [Storage accounts](#) >


Create a storage account ...


[Basics](#) [Advanced](#) [Networking](#) [Data protection](#) [Encryption](#) [Tags](#) [Review + create](#)

Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.


Subscription * Azure-DXC262A812Lab 

Resource group * dxccorg231 
[Create new](#)

Instance details

If you need to create a legacy storage account type, please click [here](#).

Storage account name ⓘ * dxccorgsa231


Region ⓘ * (US) East US 

Performance ⓘ *

☒ Standard: Recommended for most scenarios (general-purpose v2 account)

☐ Premium: Recommended for scenarios that require low latency.

Redundancy ⓘ *

Geo-redundant storage (GRS) 


☒ Make read access to data available in the event of regional unavailability.

[Review + create](#)

[< Previous](#)

[Next : Advanced >](#)

Step-3:

 Microsoft Azure Search resources, services, and documentation

Home > Storage accounts >

Create a storage account

Validation passed

BasicsAdvancedNetworkingData protectionEncryptionTagsReview & create

Basics

Subscription	Azure-DXC262AB12Lab
Resource Group	dxccorg231
Location	eastus
Storage account name	dxccorgsa231
Deployment model	Resource manager
Performance	Standard
Replication	Read-access geo-redundant storage (RA-GRS)

Advanced

Secure transfer	Enabled
Allow storage account key access	Enabled
Allow cross-tenant replication	Enabled
Default to Azure Active Directory authorization in the Azure portal	Disabled
Blob public access	Enabled
Minimum TLS version	Version 1.2
Enable hierarchical namespace	Disabled
Enable network file system v3	Disabled
Access tier	Hot
Enable SFTP (preview)	Disabled
Large file shares	Disabled

Networking

Network connectivity	Public endpoint (all networks)
----------------------	--------------------------------

Create

< Previous

Next >

[Download a template for automation](#)

Step-4:

Microsoft Azure

Search resources, services, and docs (G+)

Home >

dxorgsa231_1654686555341 | Overview

Deployment

Search (Ctrl+/)

Delete Cancel Redeploy Refresh

We'd love your feedback! →

Deployment is in progress

Deployment name: dxorgsa231_1654686555341
Subscription: Azure-DXC262AB12Lab
Resource group: dxorg231

Start time: 6/8/2022, 4:39:27 PM
Correlation ID: 90385a17-0918-406a-be43-778f85dd8165

Deployment details (Download)

Resource	Type	Status	Operation details
No results.			

Step-5: The storage Account is created successfully.

Subscription Details | Nuvepro

dxorgsa231_1654686555341

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F48e8049-33b2-4e37-bec3-5f8394096bd2%2FresourceGroups%2Fdxorg231%2Fprovide...

Microsoft Azure

Search resources, services, and docs (G+)

Home >

dxorgsa231_1654686555341 | Overview

Deployment

Search (Ctrl+/)

Delete Cancel Redeploy Refresh

We'd love your feedback! →

Your deployment is complete

Deployment name: dxorgsa231_1654686555341
Subscription: Azure-DXC262AB12Lab
Resource group: dxorg231

Start time: 6/8/2022, 4:39:27 PM
Correlation ID: 90385a17-0918-406a-be43-778f85dd8165

Deployment details (Download)

Next steps

Go to resource

Cost Management

Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >

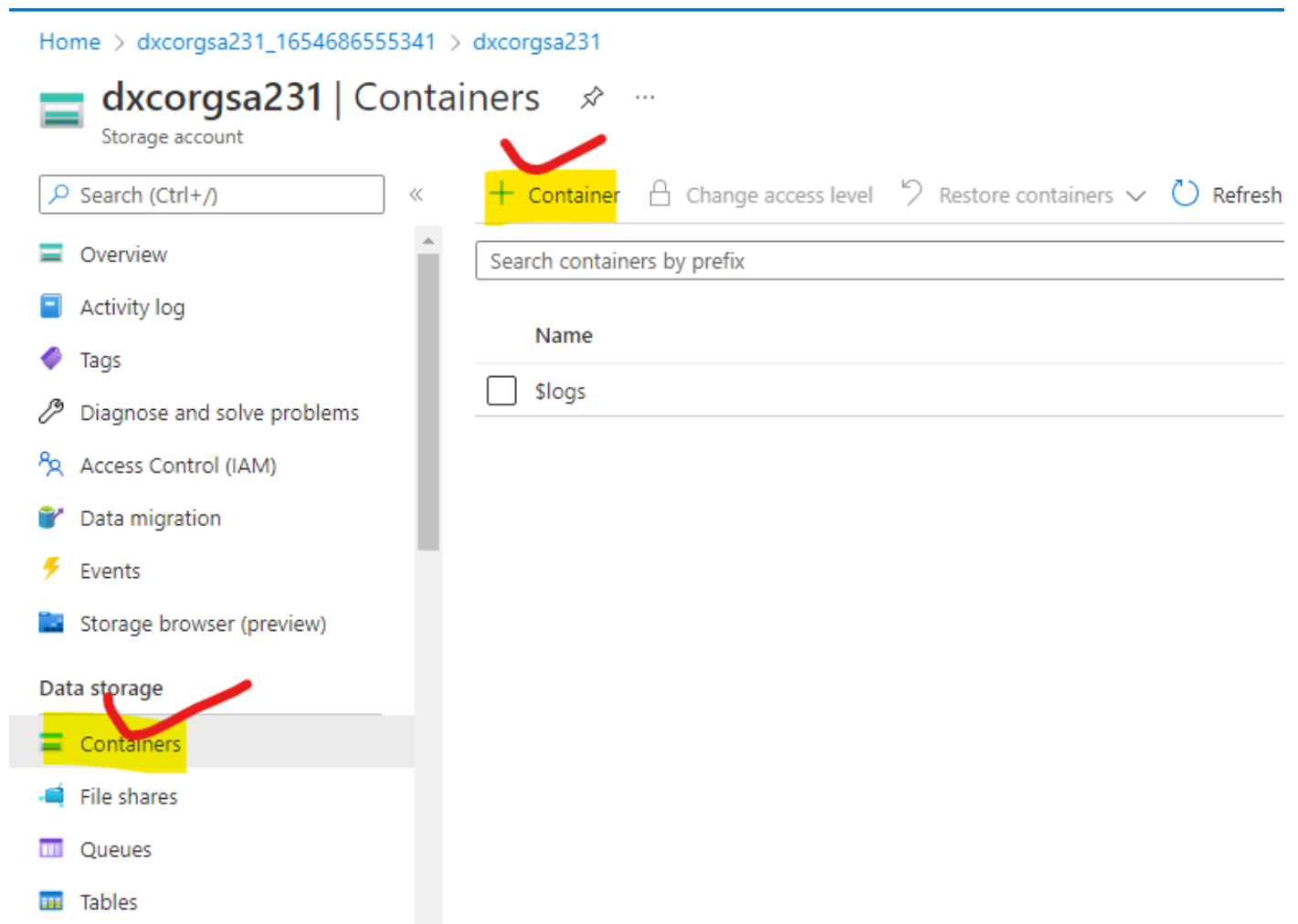
Microsoft Defender for Cloud

Secure your apps and infrastructure

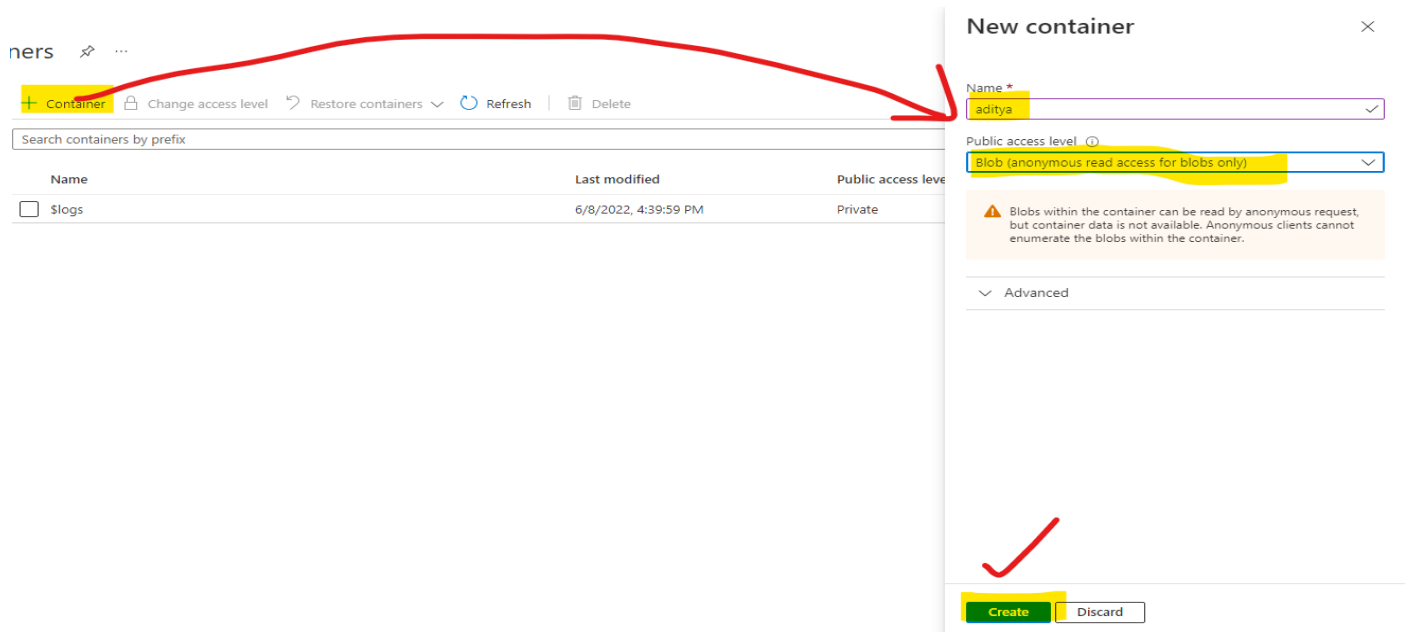
8. Explain the steps with screenshots how to create upload data into Azure Blobs ?

Ans) After creating the storage account the following steps should be followed

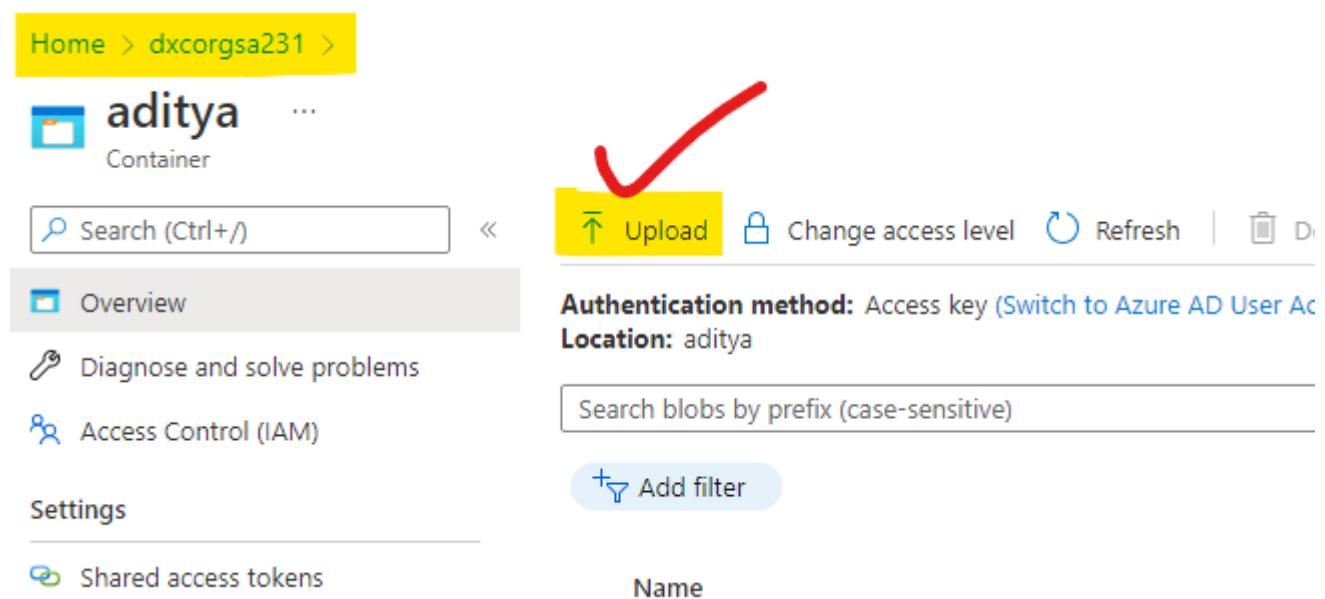
Step-1 :



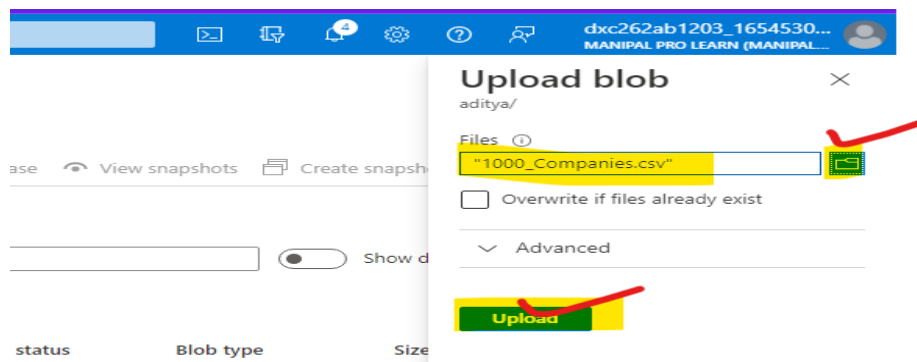
Step-2: Create a container and name it



Step-3: The blob will be created and to upload the data into it follow the steps



Step-4: upload the file by browsing from the file explorer



Step-5 : the data will be uploaded successfully

Home > dxcorgsa231 >

aditya ...
Container

Search (Ctrl+/) «

Upload | Change access level | Refresh | Delete | Change tier | Acquire lease | Break lease | View snapshots

Authentication method: Access key (Switch to Azure AD User Account)
Location: aditya

Search blobs by prefix (case-sensitive)

+ Add filter

Name	Modified	Access tier	Archive status	Blob type
1000_Companies.csv	6/8/2022, 5:07:16 PM	Hot (Inferred)		Block blob

Upload Completed for 1000_Companies.csv
50 KiB | dxcorgsa231

Select a file

☐ Overwrite if files already exist

Advanced

Upload

Current uploads

Dismiss: Completed All

1000_Companies.csv 50 KiB / 50 KiB ...

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

Ans)step-1: search for azure sql in search bar

Microsoft Azure

Search resources, services, and docs (G+/)

Home >

Azure SQL ...

Manipal Pro Learn (manipalazure.onmicrosoft.com)

+ Create | Reservations | Manage view | Refresh | Export to CSV | Open query | Assign tags | Delete

Filter for any field...

Subscription == all | Resource group == all | Location == all | Add filter

Name ↑↓	Resour... ↑↓	Service tier ↑↓	Resource group ↑↓	Lo
---------	--------------	-----------------	-------------------	----

SQL

No Azure SQL resources to display

Try changing or clearing your filters.

Create Azure SQL resource

Step-2:after click on create follow the steps

[Home](#) > [SQL databases](#) > [Create SQL Database](#) >

Create SQL Database Server ...

Microsoft

Enter required settings for this server, including providing a name and location. This server will be created in the same subscription and resource group as your database.

Server name * ☐
 .database.windows.net

Location * ☐

Authentication

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Azure AD authentication [Learn more](#) using an existing Azure AD user, group, or application as Azure AD admin [Learn more](#) , or select both SQL and Azure AD authentication.

Authentication method ☒ Use SQL authentication
 ☐ Use only Azure Active Directory (Azure AD) authentication
 ☐ Use both SQL and Azure AD authentication

Server admin login * ☐

Password * ☐

Confirm password * ☐



Step-3:

[Home](#) > [SQL databases](#) >

Create SQL Database ...

Microsoft

Server * ⓘ

(new) dxcsv1 (East US) ▼

[Create new](#)

Want to use SQL elastic pool? ⓘ

☐ Yes ☒ No

Compute + storage * ⓘ

General Purpose

Gen5, 2 vCores, 32 GB storage, zone redundant disabled

[Configure database](#)

Backup storage redundancy

Choose how your PITR and LTR backups are replicated. Geo restore or ability to recover from regional outage is only available when geo-redundant storage is selected.

Backup storage redundancy ⓘ

- ☐ Locally-redundant backup storage
- ☐ Zone-redundant backup storage
- ☒ Geo-redundant backup storage



Selected value for backup storage redundancy is Geo-redundant backup storage. Database backups will be geo-replicated which might impact your data residency requirements. [Learn more](#)

[Review + create](#)

[Next : Networking >](#)

Step-4:

[Home](#) > [SQL databases](#) >

Create SQL Database ...

Microsoft

[Basics](#) [Networking](#) [Security](#) [Additional settings](#) [Tags](#) [Review + create](#)

Product details

SQL database
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Estimated cost per month

-- --

[View pricing details](#)

Terms

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the additional details see [Azure Marketplace Terms](#). ↗

Basics

Subscription	Azure-DXC262AB12Lab
Resource group	dxcs231
Region	East US
Database name	dxcsdb231
Server	(new) dxcsv1
Authentication method	SQL authentication
Server admin login	azuser

Create

< Previous

[Download a template for automation](#)

Step-5:

[Home](#) >

Microsoft.SQLDatabase.newDatabaseNewServer_f31c06e2541a4b4e9323a | Overview ✨ ...

Deployment

< Delete Cancel Redeploy Refresh

Overview

Inputs

Outputs

Template

We'd love your feedback! →

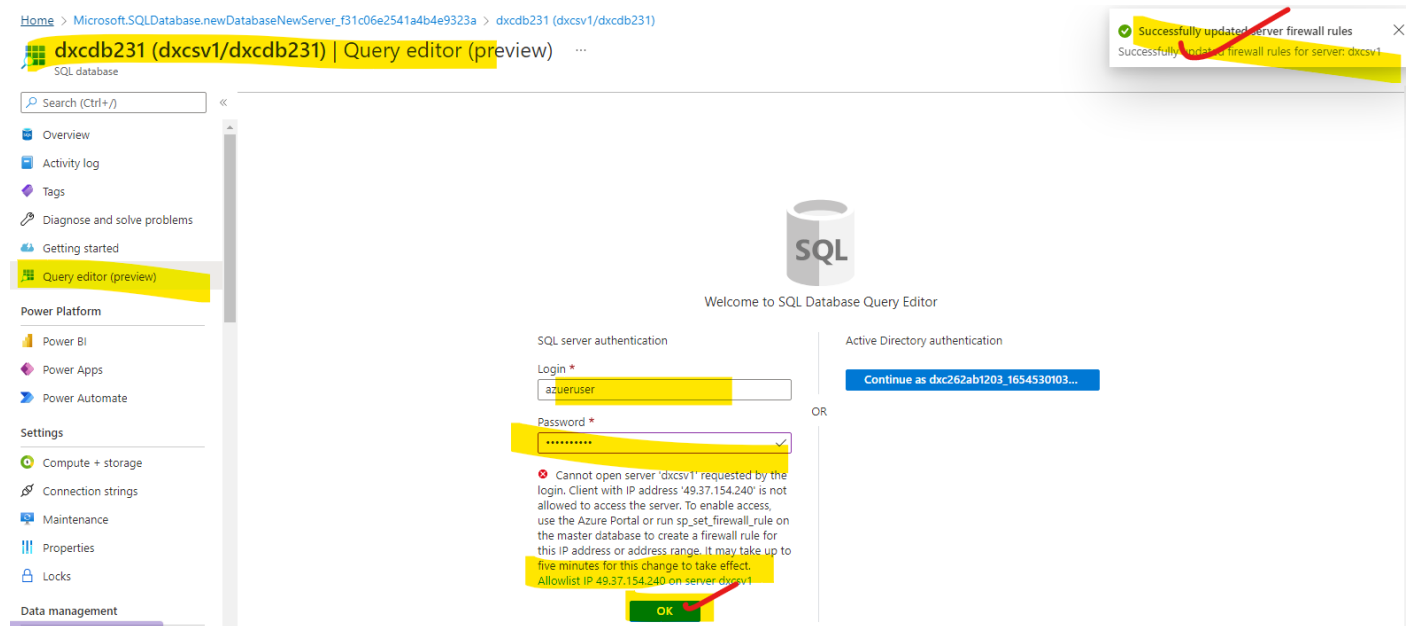
Deployment is in progress

Deployment name: Microsoft.SQLDatabase.newDatabaseNewServer... Start time: 6/8/2022, 6:32:10 PM
Subscription: Azure-DXC262AB12Lab Correlation ID: 89eeb5a4-0b1d-48e6-b765-c86f2e094af5
Resource group: dxcs231

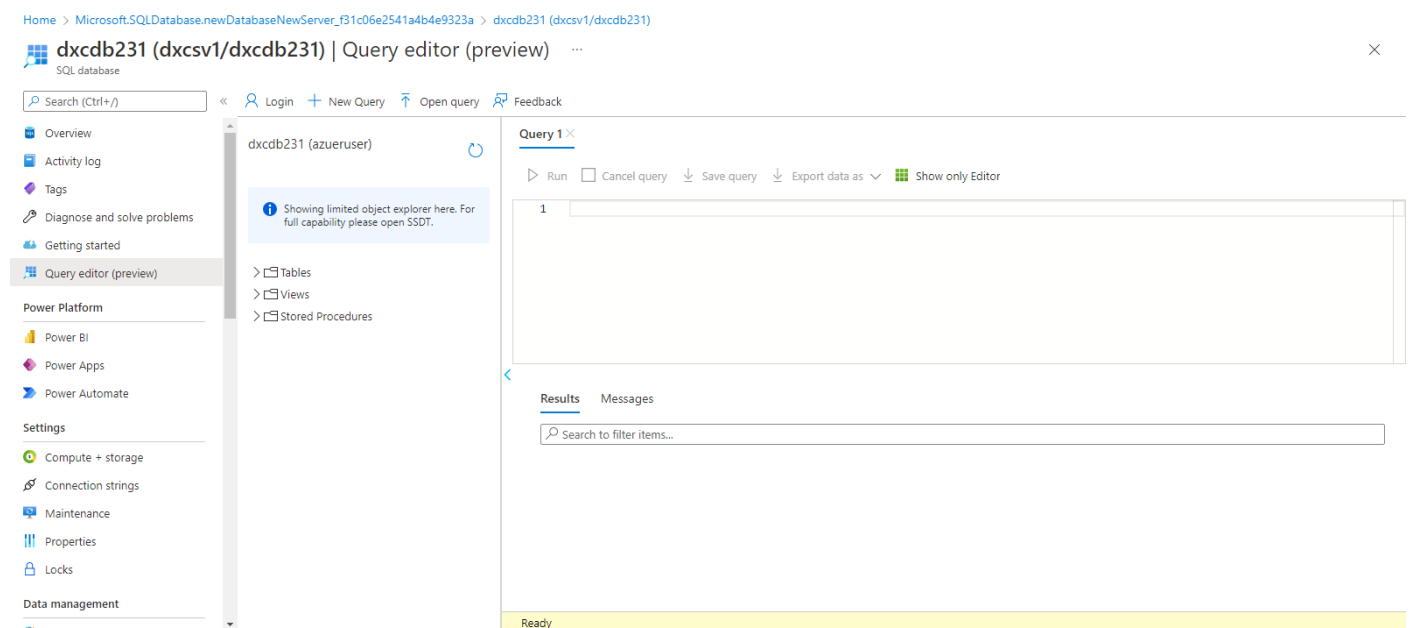
Deployment details (Download)

Resource	Type	Status	Operation details
✓ sqlva6kq236hakj7m	Microsoft.Storage/storageAccounts	OK	Operation details
✓ sqlva6kq236hakj7m	Microsoft.Storage/storageAccounts	OK	Operation details
ⓘ dxcsv1	Microsoft.Sql/servers	Accepted	Operation details

Step-6:



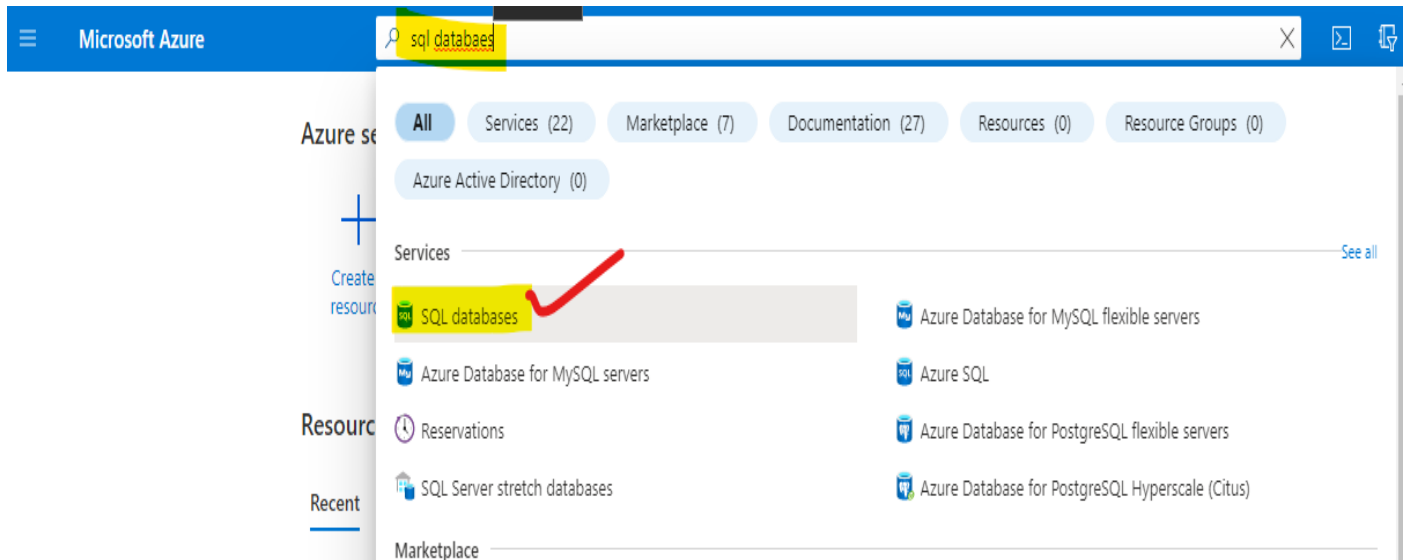
Step-7: login with the credentials and allow firewall to allow the changes and click on ok the sql database is available now



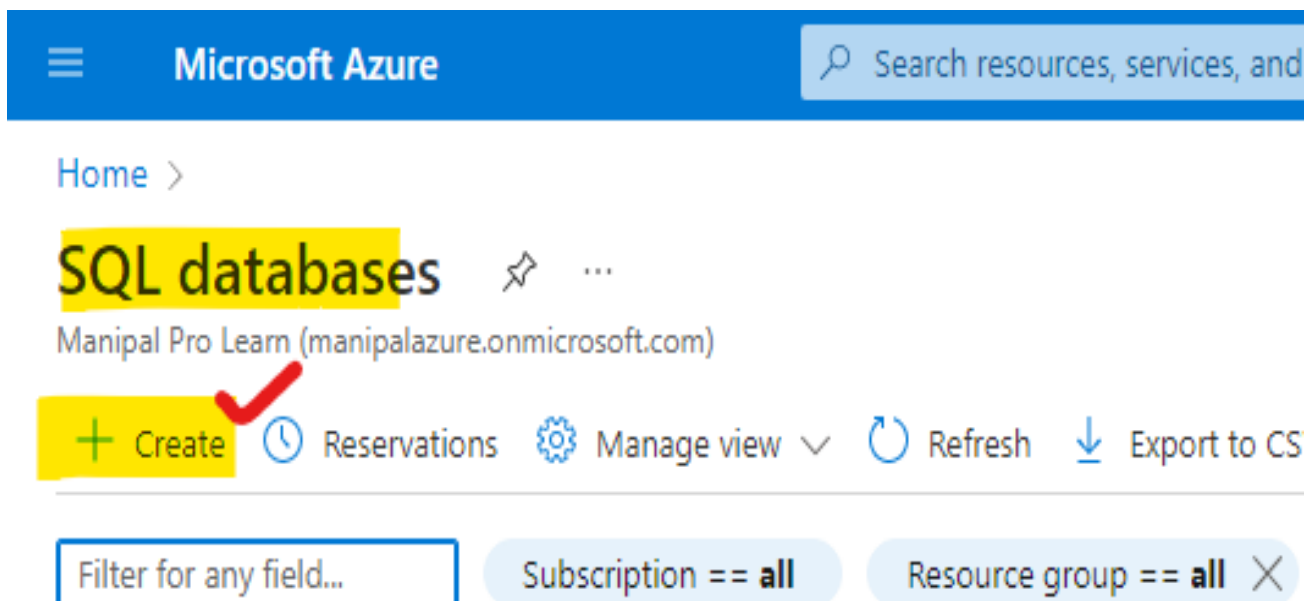
10. Explain the steps with screenshots how to insert data into azure SQL database ?

Ans) To enter the data into the data base we have to follow the steps mentioned below

Step-1: search for Azure sql databases and select the AZURE SQL databases from the search results



Step-2 : after selecting the Sql databases. Click on create button as shown below



Step-3: select all options as mentioned below

Microsoft Azure

Search resources, services, and docs (G+)

dx262ab1203_16
MANIPAL PRO LEARN (A

Show portal menu

Create SQL Database

Microsoft

BasicsNetworkingSecurityAdditional settingsTagsReview + create

Create a SQL database with your preferred configurations. Complete the Basics tab then go to Review + Create to provision with smart defaults, or visit each tab to customize. [Learn more](#)

Did you know that new users in Azure can create a free Azure SQL Database and use it for 12 months using Azure free account? [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ Azure-DXC262AB12Lab

Resource group * ⓘ dxc231

[Create new](#)

Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name * Enter database name

Server * ⓘ dxc231 (East US)

[Create new](#)

Want to use SQL elastic pool? ⓘ ☐ Yes ☒ No

Compute + storage * ⓘ

General Purpose - Serverless
Gen5, 1 vCore, 1 GB storage, zone redundant disabled
[Configure database](#)

Backup storage redundancy

[Review + create](#) [Next: Networking >](#)

<https://portal.azure.com/#>

Step-4: after completing this step navigate to the next menus with out changing any settings and click on create

Microsoft Azure Search resources, services, and docs (G+)

Home > SQL databases >

Create SQL Database

Microsoft

Basics Networking Security Additional settings Tags Review + create

Product details

SQL database
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Estimated cost
Storage cost -- -- / month + Compute cost -- -- / vCore / second
[View pricing details](#)

Terms

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see [Azure Marketplace Terms](#).

Basics

Subscription	Azure-DXC262AB12Lab
Resource group	dxc231
Region	eastus
Database name	dxcorg123
Server	dxc231

Compute + storage General Purpose - Serverless: Gen5, 1 vCore, 1 GB storage, zone redundant disabled

Backup storage redundancy Geo-redundant backup storage

Networking

Allow Azure services and resources to access this server No

Private endpoint None

Security

Service principal (preview) Off

Create < Previous Download a template for automation

Step-5: after clicking on create it takes some time to deploy after that we can access the Database and click on query editor

Microsoft Azure Search resources, services, and docs (G+)

Home >

dxc231 (dxc231/dxc231) SQL database

Search (Ctrl+/)

Copy Restore Export Set server firewall Delete Connect with... Feedback

Overview

Activity log Tags Diagnose and solve problems Getting started **Query editor (preview)** Power Platform Power BI Power Apps


This database was just created. Do you need any help [getting started?](#)

Essentials

Resource group (move)	dxc231	Server name	dxc231.database.windows.net
Status	Paused	Connection strings	Show database connection strings
Location	East US	Pricing tier	General Purpose - Serverless: Gen5, 1 vCore
Subscription (move)	Azure-DXC262AB12Lab	Auto-pause delay	1 hour
Subscription ID	48ef8049-33b2-4e37-bec3-5f8394096bd2	Earliest restore point	2022-06-07 09:55 UTC
Tags (edit)	Click here to add tags		

Show data for last: 1 hour 24 hours 7 days Aggregation type: Max Database data storage

Step-6: login with your login credentials



Welcome to SQL Database Query Editor

SQL server authentication

Login *

Password *

OK

Active Directory authentication

Continue as dxc262ab1203_1654530103...

OR

Step-7: insert the data by using the traditional SQL methods.

Microsoft Azure

Search resources, services, and docs (G+)

dxcsqldb132 (dxcsqlserver271/dxcsqldb132)

dxcsqldb132 (dxcsqlserver271/dxcsqldb132) | Query editor (preview)

SQL database

Login New Query Open query Feedback

dxcsqldb132 (ajay)

Showing limited object explorer here. For full capability please open SSDT.

Tables

dbo.address

dbo.email_address

dbo.person

dbo.person_address

dbo.phone_number

Views

Stored Procedures

Query 1

Run Cancel query Save query Export data as Show only Editor

```
17 INSERT INTO person_address (person_address_id, person_address_person_id, person_address_address_id) VALUES (1, 1, 1);
18 INSERT INTO person_address (person_address_id, person_address_person_id, person_address_address_id) VALUES (3, 2, 1);
19 INSERT INTO person_address (person_address_id, person_address_person_id, person_address_address_id) VALUES (4, 2, 2);
20 INSERT INTO person_address (person_address_id, person_address_person_id, person_address_address_id) VALUES (5, 3, 3);
21
22
23 INSERT INTO phone_number (phone_number_id, phone_number_person_id, phone_number) VALUES (1, 1, '555-1212');
24 INSERT INTO phone_number (phone_number_id, phone_number_person_id, phone_number) VALUES (2, 2, '555-1213');
25 INSERT INTO phone_number (phone_number_id, phone_number_person_id, phone_number) VALUES (3, 3, '555-1214');
26 INSERT INTO phone_number (phone_number_id, phone_number_person_id, phone_number) VALUES (4, 3, '555-1215');
```

Results Messages

Query succeeded: Affected rows: 19