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SUBMISSION: 8-6-2022 COMPANY: DXC TECHNOLOGY

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

The screenshot shows the 'Create a storage account' wizard on the 'Basics' tab. It includes fields for Subscription (set to 'Azure-DXC262AB12Lab'), Resource group (set to 'dxcrg2317' with a 'Create new' option), and Storage account name ('dxcstorage2804'). The 'Region' is set to '(US) East US'. Under 'Performance', 'Standard' is selected as the recommended scenario. Navigation buttons at the bottom include 'Review + create' (highlighted in blue), '< Previous', and 'Next : Advanced >'.

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

The screenshot shows the 'Create a storage account' wizard on the 'Review + create' tab. A green validation message 'Validation passed' is displayed. The 'Basics' section lists the configuration: Subscription (Azure-DXC262AB12Lab), Resource Group (dxcrg2317), Location (eastus), Storage account name (dxcstorage2804), Deployment model (Resource manager), Performance (Standard), and Replication (Read-access geo-redundant storage (RA-GRS)). The 'Advanced' section shows Secure transfer, Allow storage account key access, and Allow cross-tenant replication all set to Enabled. Navigation buttons at the bottom include 'Create' (highlighted in blue), '< Previous', 'Next >', and 'Download a template for automation'.

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

The screenshot shows the Microsoft Azure Storage account interface for 'dxcstorage2804'. The left sidebar has 'Containers' selected under 'Data storage'. The main area displays a table of containers with one entry:

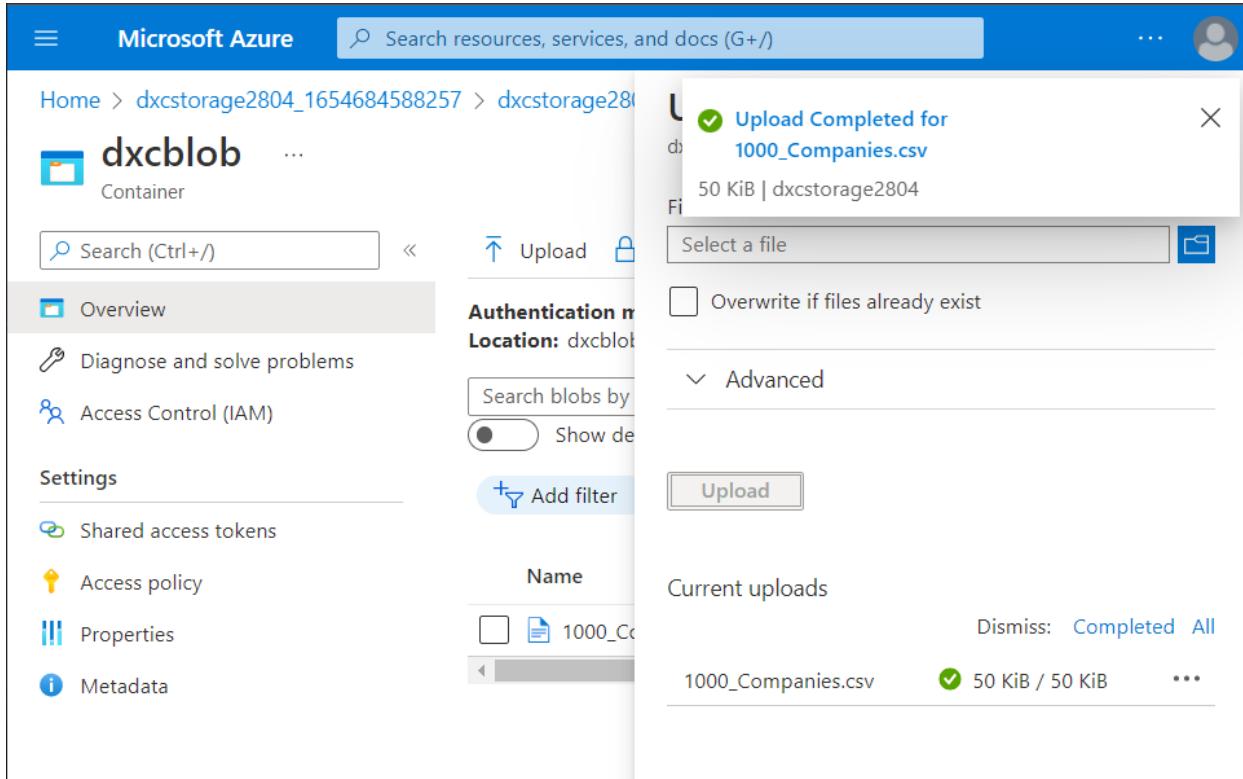
Name	Last modified	Public access level
\$logs	6/8/2022, 4:07:10 PM	Private

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

The screenshot shows the 'New container' dialog in Microsoft Azure. The 'Name' field is set to 'dxcblob' and the 'Public access level' is set to 'Blob (anonymous read access for blobs only)'. A warning message states: 'Blobs within the container can be read by anonymous request, but container data is not available. Anonymous clients cannot enumerate the blobs within the container.' At the bottom are 'Create' and 'Discard' buttons.

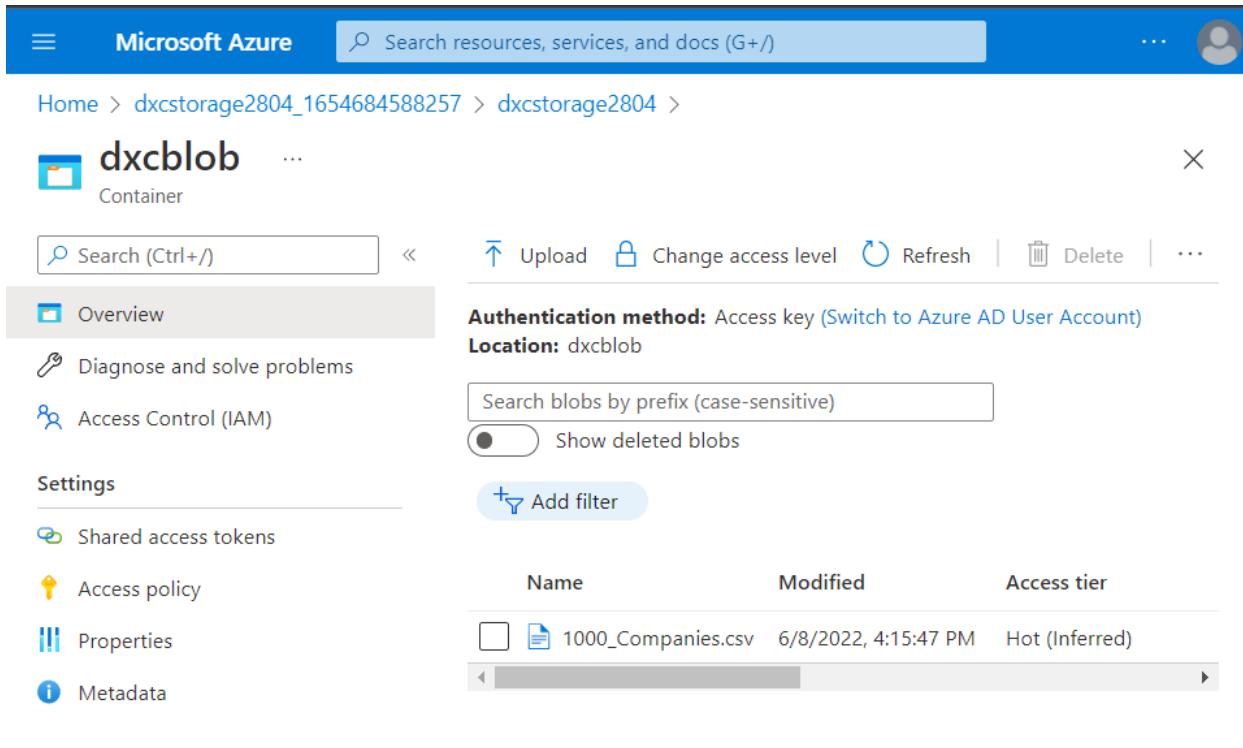
We get the dxcblob container storage click on it

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



The screenshot shows the Microsoft Azure Storage Blob Container interface. On the left, there's a sidebar with navigation links like Overview, Diagnose and solve problems, Access Control (IAM), Settings, Shared access tokens, Access policy, Properties, and Metadata. The main area shows a file upload dialog. It has a message "Upload Completed for 1000_Companies.csv", a progress bar showing "50 KiB | dxcstorage2804", and a "Select a file" input field. There's also a checkbox for "Overwrite if files already exist". Below that is an "Advanced" section with an "Upload" button. At the bottom, it shows "Current uploads" with a list item for "1000_Companies.csv" which is "50 KiB / 50 KiB".

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



The screenshot shows the Microsoft Azure Storage Blob Container list interface. The sidebar is identical to the previous screenshot. The main area displays a table of blobs. The columns are Name, Modified, and Access tier. One row is visible: "1000_Companies.csv" was modified on "6/8/2022, 4:15:47 PM" and has an "Access tier" of "Hot (Inferred)". There are buttons for Upload, Change access level, Refresh, Delete, and more options.

Name	Modified	Access tier
1000_Companies.csv	6/8/2022, 4:15:47 PM	Hot (Inferred)

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

Microsoft Azure

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

Home > Virtual machines >

Create a virtual machine

⚠️ Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.

image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [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 * [\(1\)](#) Azure-DXC262AB12Lab

Resource group * [\(1\)](#) dxcrg2317 [Create new](#)

Instance details

Virtual machine name * [\(1\)](#) dxcmv2804

Region * [\(1\)](#) (US) East US

Availability options [\(1\)](#)

Availability zone * [\(1\)](#) Zone 1

Security type [\(1\)](#) Standard

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

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

Microsoft Azure

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

Home > Virtual machines >

Create a virtual machine

Validation passed

Basics Disks Networking Management Advanced Tags [Review + create](#)

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

Generate new key pair

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](#)

By clicking "Create", I (a) agree to the terms listed above; and (b) agree to the terms 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.

[Create](#) [< Previous](#) [Next >](#) Download a template for automation

Now go to resources

The screenshot shows the Microsoft Azure Deployment Overview page for a deployment named "CreateVm-canonical.0001-com-ubuntu-server-focal...". The status is "Your deployment is complete". Deployment details include:

- Deployment name: CreateVm-canonical.0001-com-ubuntu-server-f...
- Subscription: Azure-DXC262AB12Lab
- Resource group: dxcrg2317
- Start time: 6/8/2022, 4:29:00 PM
- Correlation ID: b9b27e29-1d1a-4947-8f90-7dafe1b73589

Next steps include:

- Setup auto-shutdown (Recommended)
- Monitor VM health, performance and network dependencies (Recommended)
- Run a script inside the virtual machine (Recommended)

Buttons at the bottom include "Go to resource" and "Create another VM".

Connect->SSH

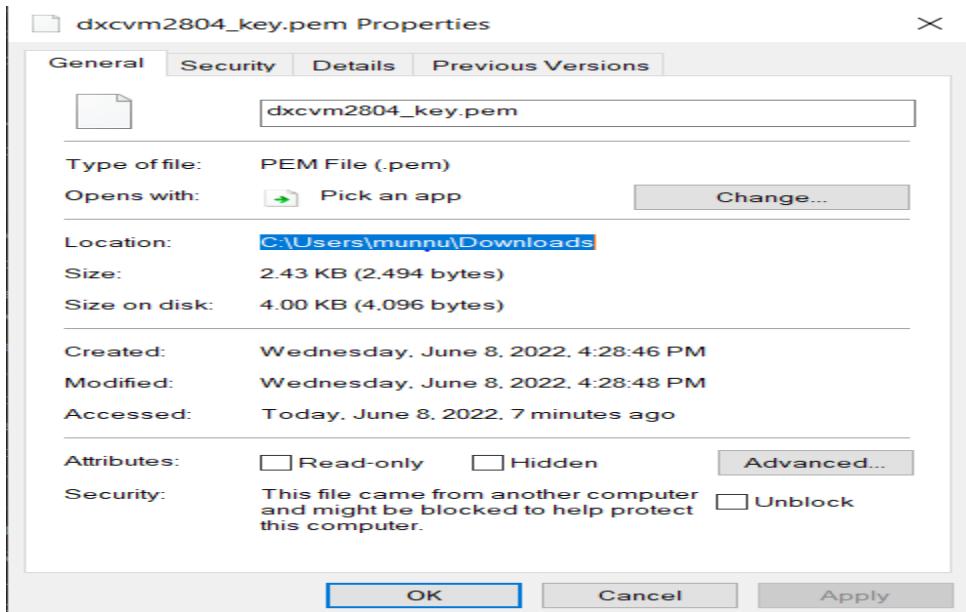
copy the 4th options and paste in notepad

ssh -i <private key path> azureuser@20.55.35.252

The screenshot shows the Microsoft Azure Virtual Machine Overview page for a VM named "dxcvm2804". The "Connect" dropdown menu is open, showing options: SSH, RDP, and Bastion. The VM details are as follows:

- Status: Running
- Location: East US (Zone 1)
- Subscription (move): Azure-DXC262AB12Lab
- Subscription ID: 393ee23-258e-4780-b646-3ff567d08e5e
- Availability zone: 1
- Operating system: Linux (ubuntu 20.04)
- Size: Standard D2s v3 (2 vcpus, 8 GiB memory)
- Public IP address: 20.55.35.252
- Virtual network/subnet: dxcrg2317vnet686/default

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:$
```

```
azureuser@dxcvm2804: ~
Microsoft Windows [Version 10.0.19043.1706]
(c) Microsoft Corporation. All rights reserved.

C:\Users\munnu>cd C:\Users\munnu\Downloads\

C:\Users\munnu\Downloads>ssh -i C:\Users\munnu\Downloads\dxcvm2804_key.pem azureuser@20.55.35.252
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 11:11:54 UTC 2022

 System load:  0.0      Processes:           118
 Usage of /:   4.9% of 28.90GB   Users logged in:     0
 Memory usage: 3%          IPv4 address for eth0: 10.0.0.4
 Swap usage:  0%

 * Super-optimized for small spaces - read how we shrank the memory
 footprint of MicroK8s to make it the smallest full K8s around.

 https://ubuntu.com/blog/microk8s-memory-optimisation

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.

azureuser@dxcvm2804:~$
```

Using bastion after creating vm Connect->Bastion

The screenshot shows the Microsoft Azure portal interface for a virtual machine named 'dxcvm2804'. On the left, there's a sidebar with various navigation options like 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, and Edges. The 'Connect' option is highlighted. The main content area displays a 'Create Bastion' dialog. The 'Create Bastion' form has the following fields filled in:

Name	dxcrg2317vnet686-bastion
Resource group	dxcrg2317
Virtual network	dxcrg2317vnet686
Public IP address	dxcrg2317vnet686-ip

Below the form, there are two buttons: 'Create Azure Bastion using defaults' and 'I want to configure Azure Bastion'. Above the form, there are two status messages: one indicating 'Creating a new Bastion' and another indicating 'Successfully added subnet'. A feedback survey at the bottom asks 'Tell us what you think of the Bastion experience'.

Give username

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

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

The screenshot shows the 'Create Data Factory' wizard in the Microsoft Azure portal. The current step is 'Basics'. The 'Project details' section is active, showing a subscription dropdown set to 'Azure-DXC262AB12Lab' and a resource group dropdown set to 'dxcrg2317' with a 'Create new' option. The 'Instance details' section shows a name 'dxcdf2804', region 'East US', and version 'V2 (Recommended)'. Navigation buttons at the bottom include 'Review + create', '< Previous', and 'Next : Git configuration >'.

-git configure later check it and create

The screenshot shows the 'Create Data Factory' wizard in the Microsoft Azure portal. The current step is 'Git configuration'. It displays information about Azure Data Factory's Git integration and a dropdown menu for 'Configure Git later' which is currently selected. Navigation buttons at the bottom include 'Review + create', '< Previous', and 'Next : Networking >'.

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

-get started go to azure data factory studio

The screenshot shows the Microsoft Azure portal with the URL [Home > Microsoft.DataFactory-20220608170517 >](#). The main title is "dxcdf2804" and the subtitle is "Data factory (V2)". The left sidebar includes links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Networking, Managed identities, Properties, Locks), Getting started (Quick start), Monitoring (Alerts, Metrics, Diagnostic settings), and JSON View. The "Essentials" section displays resource group (dxcrg2317), status (Succeeded), location (East US), subscription (Azure-DXC262AB12Lab), and subscription ID (393eeef23-258e-4780-b646-3ff567d08e5e). The "Getting started" section has two cards: "Open Azure Data Factory Studio" (Start authoring and monitoring your data pipelines and data flows) and "Read documentation" (Learn how to be productive quickly. Explore concepts, tutorials, and samples). The "Monitoring" section shows PipelineRuns and ActivityRuns.

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

The first screenshot shows the "Storage accounts" blade for "datastore2804". It lists two containers: "data28" and "datasource". The second screenshot shows the "datasource" container's "Overview" tab, displaying a blob named "1000_Companies.csv" with details like Name, Modified, Access tier, Archive status, and Blob type. On the right, there is an "Upload blob" interface with fields for "File" (Select a file), "Overwrite if files already exist" (checkbox), and an "Upload" button. Below it, the "Current uploads" section shows the uploaded blob "1000_Companies.csv" with a progress bar indicating "50 KiB / 50 KiB".

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

The screenshot shows the Microsoft Azure Storage account interface for 'datastore2804'. On the left, there's a sidebar with options like Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), and Data migration. The main area displays a list of containers. A search bar at the top says 'Search resources, services, and docs (G+ /)'. Below it, there are buttons for '+ Container', 'Change access level', 'Restore containers', 'Refresh', and 'Delete'. A checkbox for 'Show deleted containers' is also present. The container list includes 'datadestination' and 'datasource', both of which have 'Blob' public access level and are 'Available'.

come to data factory and click on ingest option

-click on build in copy task and next

The screenshot shows the 'Copy Data tool' wizard in Microsoft Azure Data Factory. The left sidebar lists steps: 1 Properties (selected), 2 Source, 3 Target, 4 Settings, and 5 Review and finish. The main area is titled 'Properties' and describes the wizard experience for specifying data loading settings. It offers two task types: 'Built-in copy task' (selected) and 'Metadata-driven copy task'. The 'Task cadence or task schedule' section has 'Run once now' selected. At the bottom are 'Next >' and 'Cancel' buttons.

-source type is Azure blob storage

-connection new description: AazureblobStorage1 and create

The screenshot shows the 'Source' step of the 'Copy Data tool' wizard. The left sidebar shows steps 1 through 5. The main area is titled 'Source data store' and asks to specify the source data store. It shows 'Source type' as 'Azure Blob Storage' and 'Connection' as 'Select...'. To the right, the 'New linked service' configuration is shown. It includes fields for 'Name' (set to 'AazureblobStorage1'), 'Description' (set to 'datastorage1'), 'Connect via integration runtime' (set to 'AutoResolveIntegrationRuntime'), 'Authentication type' (set to 'Account key'), and 'Connection string' (set to 'Azure Key Vault'). Under 'Account selection method', 'From Azure subscription' is selected with 'Azure subscription' set to 'Azure-DXC262AB12Lab (393eeef23-258e-4780-b646-3ff567d08e5e)' and 'Storage account name' set to 'datastore2804'. There's also a 'Test connection' button. At the bottom are 'Create' and 'Cancel' buttons.

-we will come to Source data store
 in file or folder browse and select datasource/1000_companies data and ok
 -next

The screenshot shows the Microsoft Azure Data Factory Copy Data tool. The left sidebar has tabs: Properties, Source (selected), Dataset, Configuration, Target, Settings, and Review and finish. The main area is titled 'Source data store' and shows 'Specify the source data store for the copy task. You can use an existing data store connection or specify a new one.' It includes fields for 'Source type' (Azure Blob Storage) and 'Connection' (AzureBlobStorage1). Below these are options for 'File or folder', 'Options' (Binary copy, Recursively checked, Enable partition discovery), and 'Max concurrent connections'. A 'Filter by last modified' section with 'Start time (UTC)' and 'End time (UTC)' fields is also present. On the right, a 'Browse' window shows a list of items under 'Root folder > datasource': '1000_Companies.csv'. At the bottom are 'OK' and 'Cancel' buttons.

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

The screenshot shows the Microsoft Azure Data Factory Copy Data tool. The left sidebar has tabs: Properties, Source, Target (selected), Dataset, Configuration, Settings, and Review and finish. The main area is titled 'Destination data store' and shows 'Specify the destination data store for the copy task. You can use an existing data store connection or specify a new one.' It includes fields for 'Target type' (All) and 'Connection' (AzureBlobStorage1). Below these are sections for 'Folder path' (specifying 'datadestination'), 'File name', 'Copy behavior' (None), 'Max concurrent connections', 'Block size (MB)', and 'Metadata'. A 'Browse' window on the right shows a list of items under 'Root folder': 'datadestination' and 'datasource'. At the bottom are 'OK' and 'Cancel' buttons.

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

The screenshot shows the 'Copy Data tool' interface in Microsoft Azure Data Factory. The pipeline is currently at the 'Summary' step, which indicates it's copying data from Azure Blob Storage to Azure Blob Storage. The 'Source' section details the connection name as 'AzureBlobStorage1' and the dataset name as 'SourceDataset_mis'. The 'Properties' section contains the task name 'CopyPipeline_mis' and a task description. Navigation buttons at the bottom include 'Edit', 'Next >', and 'Cancel'.

-validation and finish

we have to go to dxcestorage2804 in that

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

-this is happened because of the data factory

The screenshot shows the 'datadestination' blob container in Microsoft Azure Storage. The container overview displays a single file named '1000_Companies.txt' that was uploaded on June 8, 2022, at 5:28:30 PM. The file is categorized as a 'Hot (Inferred)' blob and has a size of 60.69 KB. The 'Lease state' is listed as 'Available'. A search bar and a 'Show deleted objects' button are present at the top of the page.

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

go to azure search vnet select virtual network

-create

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

The screenshot shows the 'Create virtual network' wizard in the Microsoft Azure portal. The 'Basics' tab is selected. In the 'Project details' section, 'Subscription' is set to 'Azure-DXC26AB12Lab' and 'Resource group' is set to 'dxcrg2317'. In the 'Instance details' section, 'Name' is 'dxcvnet2804' and 'Region' is 'East US'. At the bottom, there are buttons for 'Review + create', '< Previous', 'Next : IP Addresses >', and 'Download a template for automation'.

-create

-we get your deployment is complete

The screenshot shows the 'Microsoft.VirtualNetwork-20220608173128 | Overview' page. The 'Overview' tab is selected. A message says 'Your deployment is complete'. Deployment details show: Deployment name: Microsoft.VirtualNetwork-20220608173128, Subscription: Azure-DXC26AB12Lab, Resource group: dxcrg2317. Deployment started at 6/8/2022, 5:32:55 PM. There are sections for 'Deployment details' (with a download link), 'Next steps', and 'Go to resource'. On the right, there are links for 'Cost Management', 'Set up cost alerts >', and 'Microsoft Defender for Cloud'.

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

First we need to go to Azure and search for SYNAPSE ANALYTICS

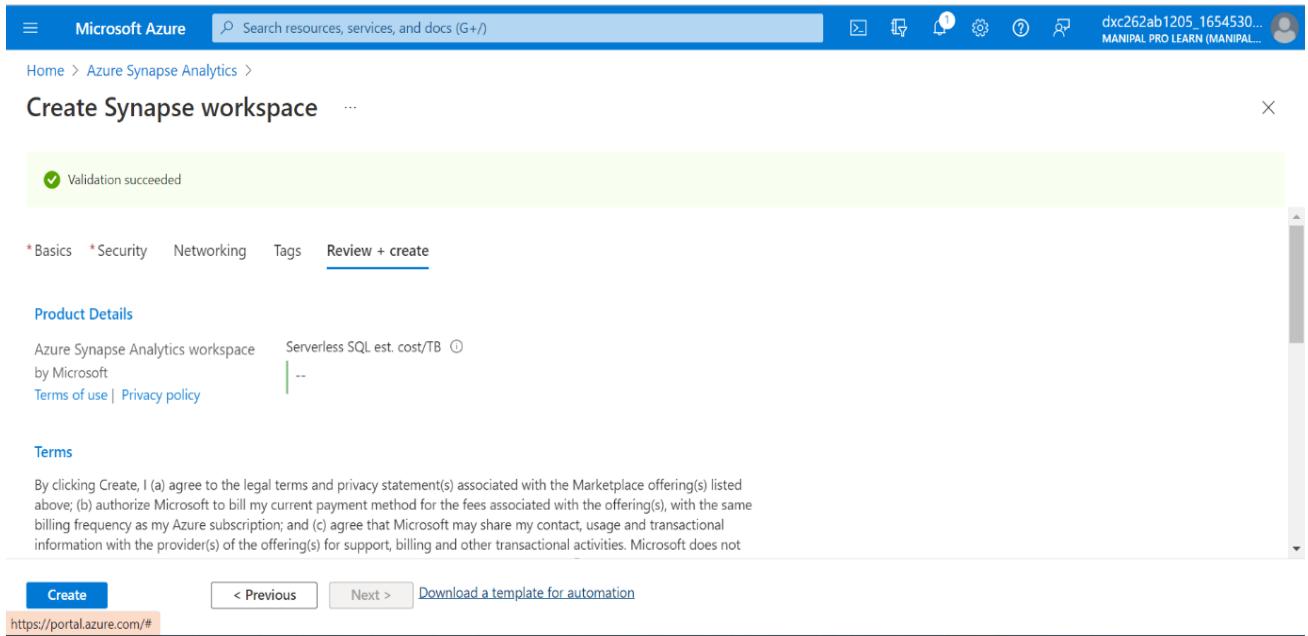
The screenshot shows the Microsoft Azure portal interface. The search bar at the top contains the text 'synapse'. Below the search bar, there are several navigation tabs: All, Services (3), Marketplace (10), Documentation (26), Resources (0), and Resource Groups (0). The 'Services' tab is selected. In the main search results area, 'Azure Synapse Analytics' is highlighted with a blue box. Other results include 'Azure Synapse Analytics (private link hubs)' and a 'Solutions' section with items like 'Moyo Azure Synapse Retail Recommender Solution', 'Incoria Intelligent Ingest for Azure Synapse', 'Xpert BI with Azure Synapse', and 'Fivetran Data Pipelines'. The left sidebar includes sections for 'Azure services', 'Create a resource', 'Resources', 'Recent', 'Name', 'See all', 'Navigate', 'Subscriptions', 'Resource groups', 'All resources', and 'Dashboard'. The URL in the address bar is <https://portal.azure.com/#blade/HubsExtension/BrowseResourceBlade/resourceType/Microsoft.Synapse%2Fworkspaces>.

and click on create

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

The screenshot shows the 'Create Synapse workspace' configuration page. At the top, it says '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.' The workspace name is set to 'dxcsynapse23'. The region is set to 'East US'. Under 'Select Data Lake Storage Gen2', the 'From subscription' option is selected, and the account name is '(New) datastore235'. The file system name is '(New) filesystem235'. A warning message at the bottom states: '⚠ Additional configuration is required. After you create your workspace, perform these tasks: Assign other users to the Contributor role on workspace'. At the bottom, there are buttons for 'Review + create' and '< Previous' and 'Next: Security >'. The URL in the address bar is <https://portal.azure.com/#>.

Configure the terms and conditions and create



Validation succeeded

* Basics * Security Networking Tags Review + create

Product Details

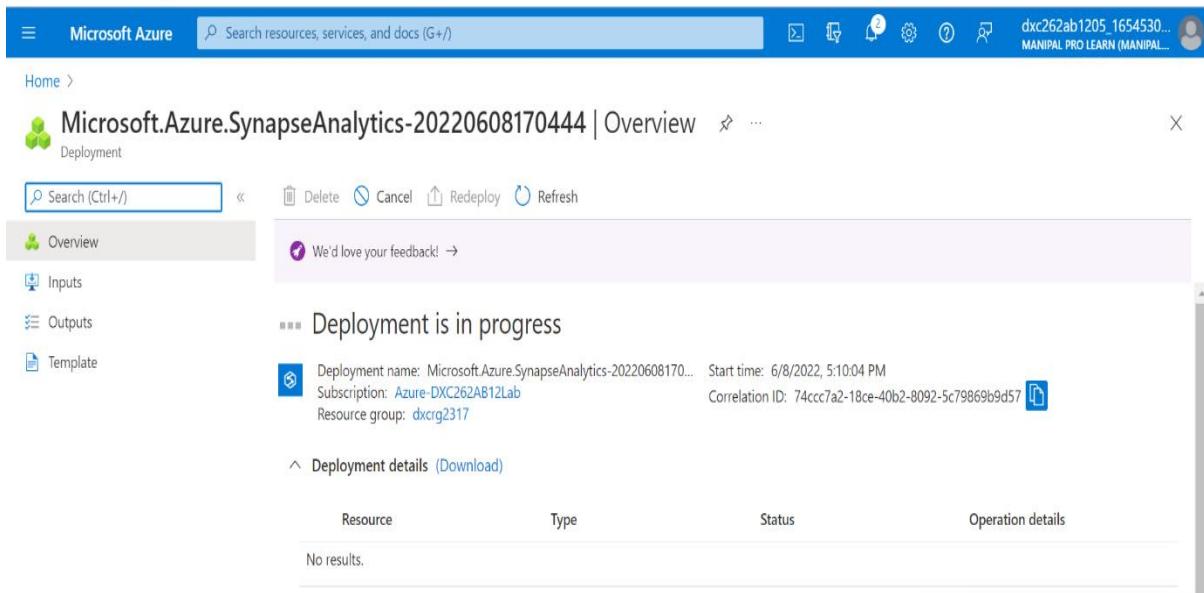
Azure Synapse Analytics workspace by Microsoft Serverless SQL est. cost/TB ⓘ
--
[Terms of use](#) | [Privacy policy](#)

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

Create < Previous Next > Download a template for automation
<https://portal.azure.com/#>

Deployment is in progress



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

Home > Microsoft.Azure.SynapseAnalytics-20220608170444 | Overview

Deployment

Search (Ctrl+ /) Delete Cancel Redeploy Refresh

Overview Inputs Outputs Template

We'd love your feedback! →

Deployment is in progress

Deployment name: Microsoft.Azure.SynapseAnalytics-20220608170... Start time: 6/8/2022, 5:10:04 PM
Subscription: Azure-DXC26AB1Lab Correlation ID: 74ccc7a2-18ce-40b2-8092-5c79869b9d57
Resource group: dxcrg2317

Deployment details (Download)

Resource	Type	Status	Operation details
No results.			

After completing deployment process, go to resource group.

The screenshot shows the Microsoft Azure Synapse Analytics Overview page for a deployment named "Microsoft.Azure.SynapseAnalytics-20220608170444". The main message is "Your deployment is complete". Deployment details include: Deployment name: Microsoft.Azure.SynapseAnalytics-202206081..., Start time: 6/8/2022, 5:10:04 PM; Subscription: Azure-DXC262AB12Lab; Correlation ID: 74ccc7a2-18ce-40b2-8092-5c79869b9d57. A "Go to resource group" button is present. On the right, there are cards for Cost Management and Microsoft Defender for Cloud.

Creation of azure synapse analytics is successful.

The screenshot shows the Microsoft Azure Resource Group Overview page for "dxcrg2317". The main area displays the "Essentials" section with information about the subscription (Azure-DXC262AB12Lab), deployment count (3 Succeeded), location (East US), and tags (Click here to add tags). A modal window titled "Switch between a list view of your resources and a summary chart view of resource counts." is open. The left sidebar lists various resource group settings like Activity log, Access control (IAM), Tags, Resource visualizer, Events, Deployments, Security, Policies, Properties, and Locks.

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

Open Microsoft Azure and search for storage accounts

The screenshot shows the Microsoft Azure portal interface. The search bar at the top contains the text "storage". Below the search bar, there is a navigation menu on the left with sections for "Azure services", "Resources", and "Navigate". Under "Resources", "Recent" is selected, showing a list that includes "dxcrg2317". The main content area displays search results for "storage". The first result, "Storage accounts", is highlighted with a gray background. Other results include "Storage Sync Services", "Data Lake Storage Gen1", "Disk Pools", "HPC caches", and several items under "Marketplace". At the bottom of the page, there are links for "Continue searching in Azure Active Directory" and "Give feedback". The URL in the address bar is <https://portal.azure.com/#blade/HubsExtension/BrowseResourceBlade/resourceType/storageAccounts>.

Click on create to create new storage account

The screenshot shows the "Storage accounts" blade in the Microsoft Azure portal. The title bar says "Storage accounts". The main content area displays a table of storage accounts. One account, "datastore235", is listed with the following details: Type: Storage account, Kind: StorageV2, Resource group: dxcrg2317, Location: East US. There are filters at the top of the table: "Subscription == all", "Resource group == all", "Location == all", and a "Create" button. A tooltip is visible on the right side of the screen, pointing to the "List view" button, which says "Switch between a list view of your resources and a summary chart view of resource counts." The URL in the address bar is <https://portal.azure.com/#>.

Checking validations

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

Home > Storage accounts >

Create a storage account

Validation passed

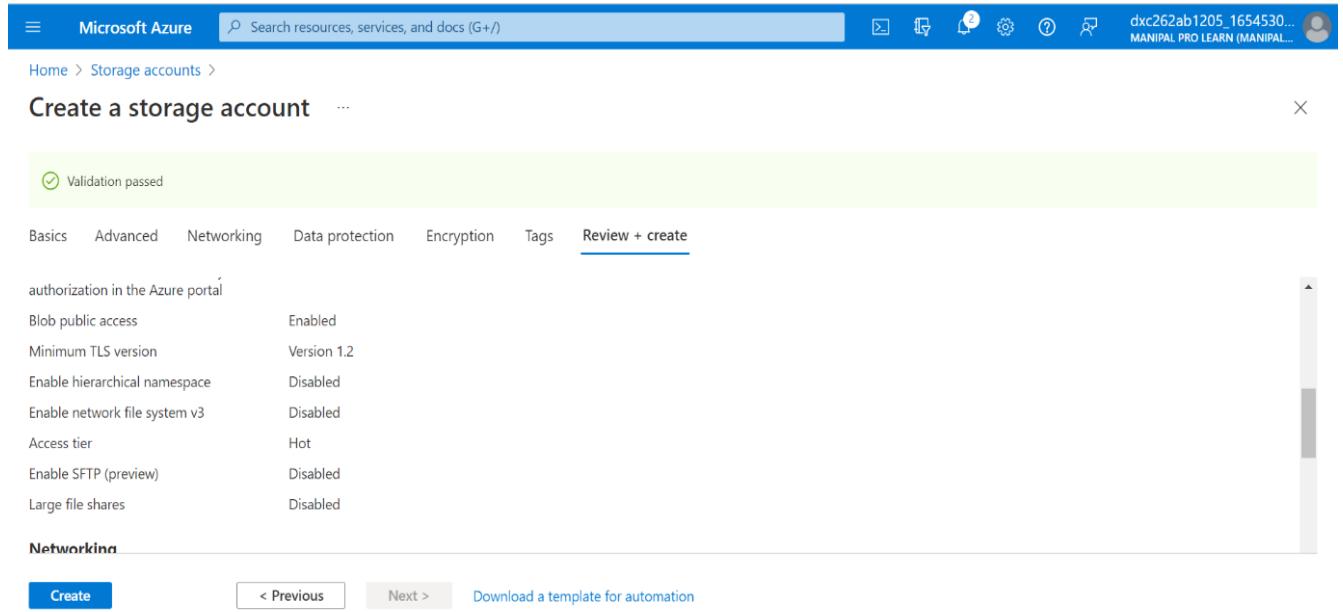
Basics Advanced Networking Data protection Encryption Tags Review + create

authorization in the Azure portal

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

Create < Previous Next > Download a template for automation



After creating, deployment starts progress

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

Home >

dxcstorage2317933_1654688980432 | Overview

Deployment

Search (Ctrl+/) <> Delete Cancel Redeploy Refresh

Overview Inputs Outputs Template

We'd love your feedback! →

Deployment is in progress

Deployment name: dxcstorage2317933_1654688980432
Subscription: Azure-DXC262AB12Lab
Resource group: dxcrg231

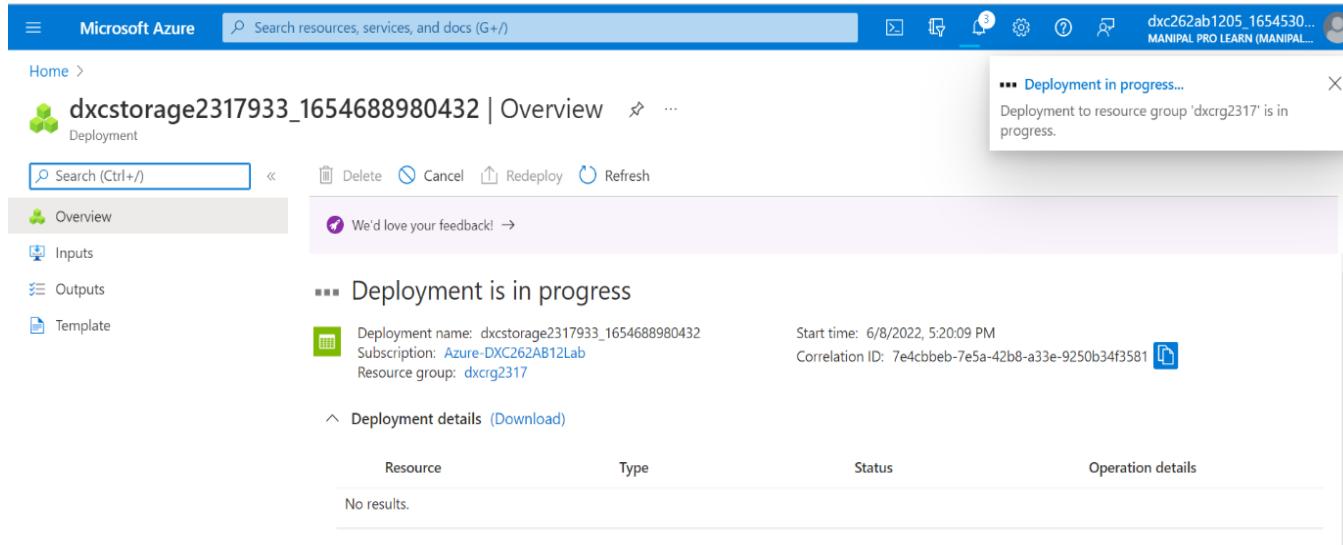
Start time: 6/8/2022, 5:20:09 PM
Correlation ID: 7e4cbbeb-7e5a-42b8-a33e-9250b34f3581

Deployment details (Download)

Resource	Type	Status	Operation details
No results.			

... Deployment in progress...

Deployment to resource group 'dxcrg231' is in progress.



After completing deployment process, go to resource group

Microsoft Azure

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

Home > dxcstorage2317933_1654688980432 | Overview

Deployment

Search (Ctrl+/) Delete Cancel Redeploy Refresh

Overview Inputs Outputs Template

We'd love your feedback!

Your deployment is complete

Deployment name: dxcstorage2317933_1654688980432 Start time: 6/8/2022, 5:20:09 PM
Subscription: Azure-DXC262AB12Lab Correlation ID: 7e4cbbef-7e5a-42b8-a33e-9250b34f3581

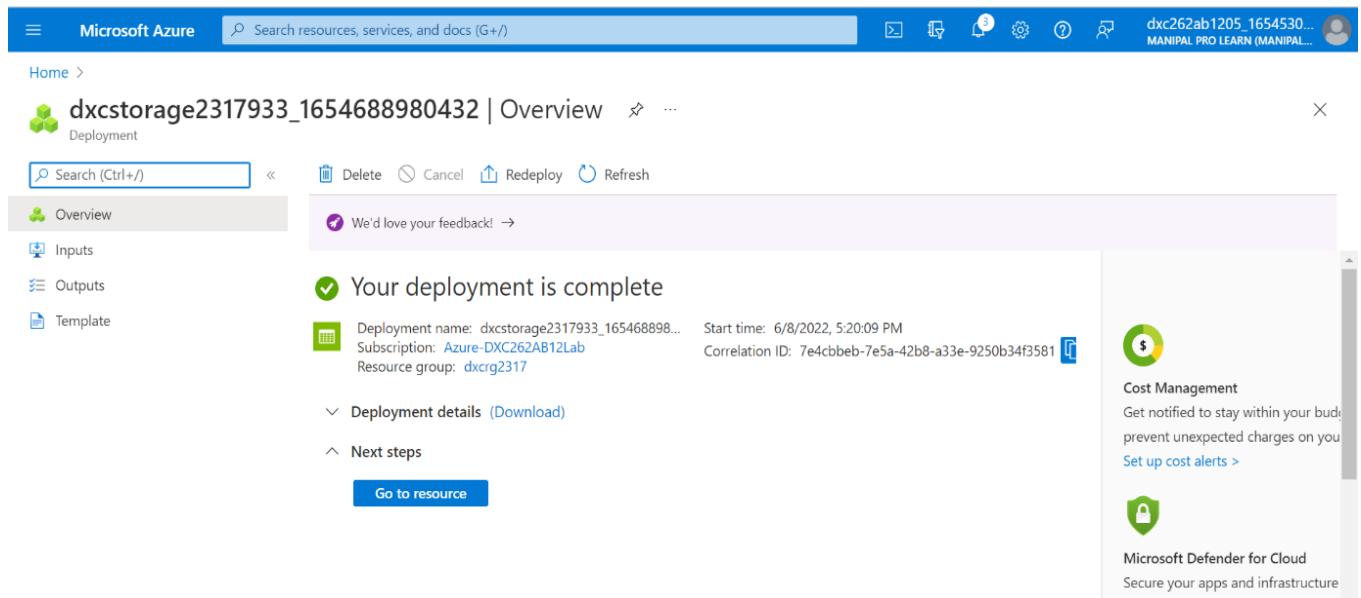
Resource group: dxcrg2317

Deployment details (Download) Next steps

Go to resource

Cost Management Get notified to stay within your budget prevent unexpected charges on you Set up cost alerts >

Microsoft Defender for Cloud Secure your apps and infrastructure



Storage account is created

Microsoft Azure

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

Home > dxcstorage2317933_1654688980432 >

dxcstorage2317933 Storage account

Search (Ctrl/+) Upload Open in Explorer Delete Move Refresh Mobile Feedback

Overview Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage browser (preview)

Essentials

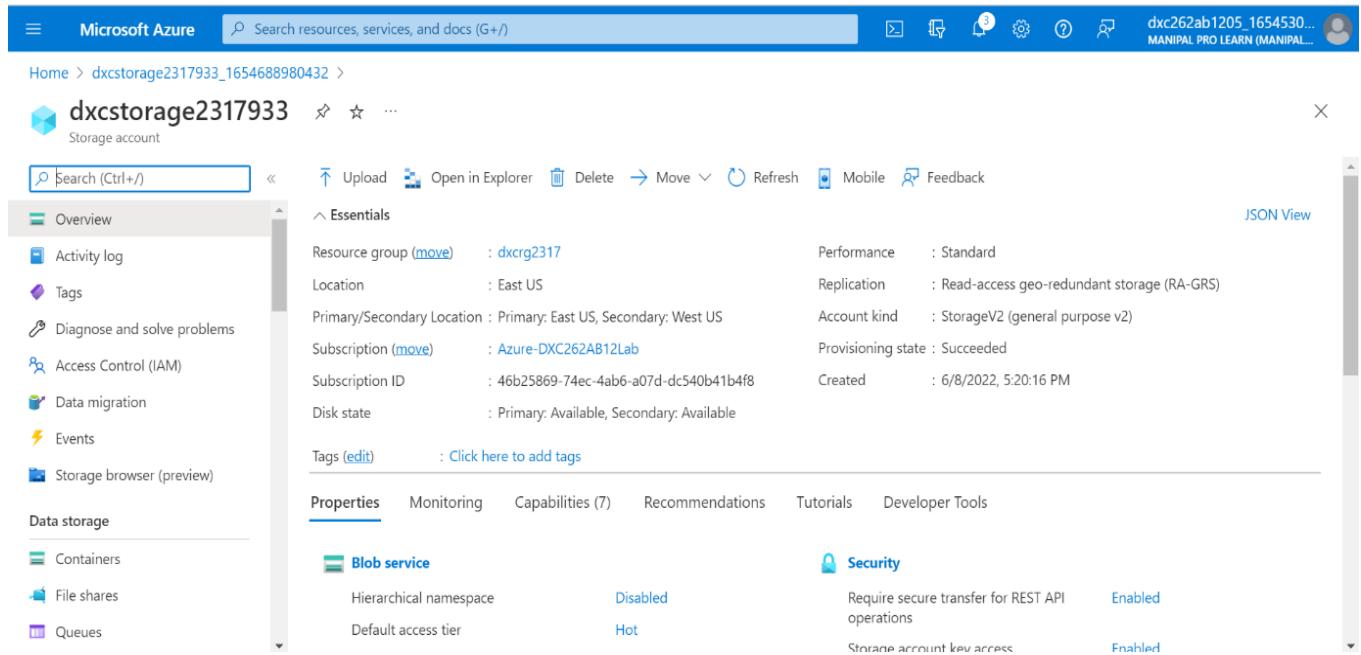
Resource group (move)	: dxcrg2317	Performance	: Standard
Location	: East US	Replication	: Read-access geo-redundant storage (RA-GRS)
Primary/Secondary Location	: Primary: East US, Secondary: West US	Account kind	: StorageV2 (general purpose v2)
Subscription (move)	: Azure-DXC262AB12Lab	Provisioning state	: Succeeded
Subscription ID	: 46b25869-74ec-4ab6-a07d-dc540b41b4f8	Created	: 6/8/2022, 5:20:16 PM
Disk state	: Primary: Available, Secondary: Available		

Tags (edit) : Click here to add tags

Properties Monitoring Capabilities (7) Recommendations Tutorials Developer Tools

Blob service Hierarchical namespace Disabled Security Require secure transfer for REST API operations Enabled

Default access tier Hot Storage account key access Enabled



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

Create a new storage account

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

Home > dxcstorage2317933_1654688980432 >

dxcstorage2317933 Storage account

Search (Ctrl+/) Upload Open in Explorer Delete Move Refresh Mobile Feedback

Overview Essentials JSON View

Resource group (move) : dxcrg2317
Location : East US
Primary/Secondary Location : Primary: East US, Secondary: West US
Subscription (move) : Azure-DXC262AB12Lab
Subscription ID : 46b25669-74ec-4ab6-a07d-dc540b41b4f8
Disk state : Primary: Available, Secondary: Available
Tags (edit) : Click here to add tags

Properties Monitoring Capabilities (7) Recommendations Tutorials Developer Tools

Blob service Security
Hierarchical namespace : Disabled
Default access tier : Hot
Require secure transfer for REST API operations : Enabled
Storage account key access : Enabled

Data storage
Containers File shares Queues

Create new sourceblob1 container

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

Home > dxcstorage2317933_1654688980432 > dxcstorage2317933

dxcstorage2317933 | Containers Storage account

Search (Ctrl+/) + Container Change access level Restore containers Refresh Delete

Search containers by prefix

Name	Last modified	Public access level
\$logs	6/8/2022, 5:20:42 PM	Private

New container X

Name * ✓

Public access level Private (no anonymous access)

Advanced

Create Discard

Creation of sourceblob1 container completed

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

Home > dxcstorage2317933_1654688980432 > dxcstorage2317933

dxcstorage2317933 | Containers

Storage account

Search (Ctrl+)/ Container Change access level Restore containers Refresh Delete

Search containers by prefix

Name	Last modified	Public access level	Lease state
\$logs	6/8/2022, 5:20:42 PM	Private	Available
sourceblob1	6/8/2022, 5:27:51 PM	Private	Available

Show deleted containers

Overview Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage browser (preview)

Data storage

- Containers
- File shares
- Queues

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

Home > dxcstorage2317933_1654688980432 > dxcstorage2317933

dxcstorage2317933 | Containers

Storage account

Search (Ctrl+)/ Container Change access level Restore containers Refresh Delete

Search containers by prefix

Name	Last modified
\$logs	6/8/2022, 5:20:42 PM
destinationblob1	6/8/2022, 5:29:10 PM

New container

Name * sourceblob1

Public access level Blob (anonymous read access for blobs only)

Blobs within the container can be read by anonymous request, but container data is not available. Anonymous clients cannot enumerate the blobs within the container.

Advanced

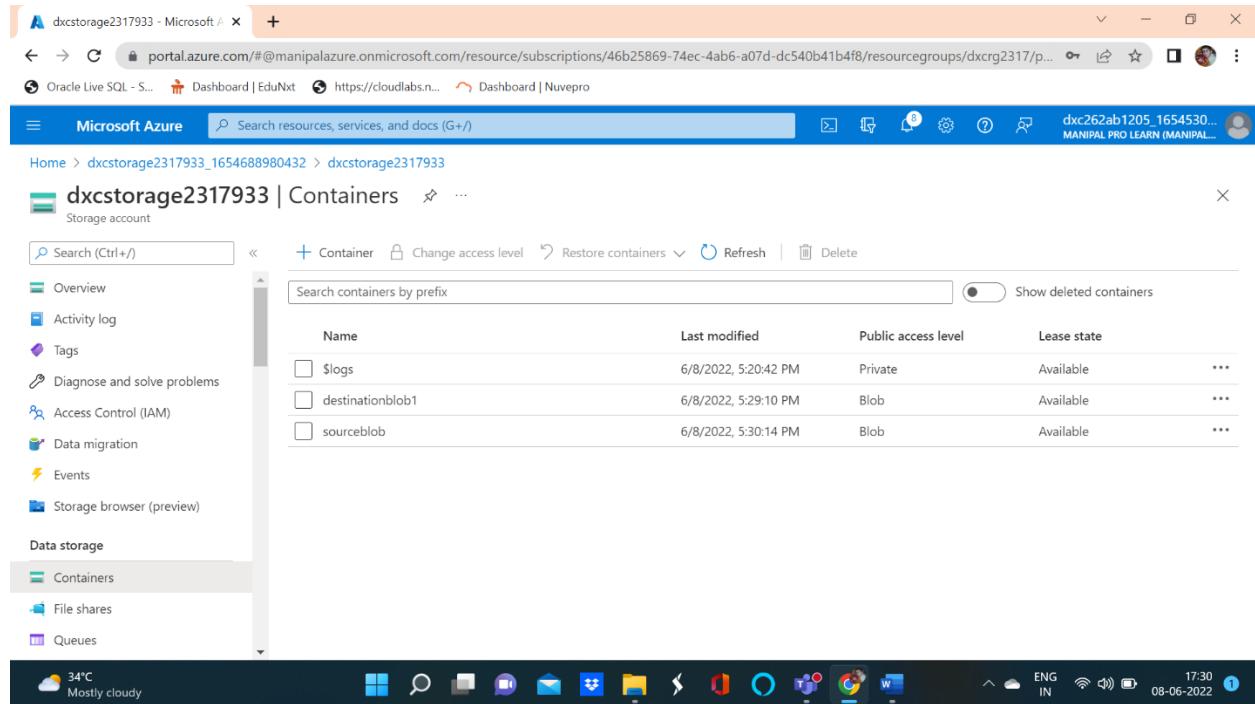
Create Discard

Overview Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage browser (preview)

Data storage

- Containers
- File shares
- Queues

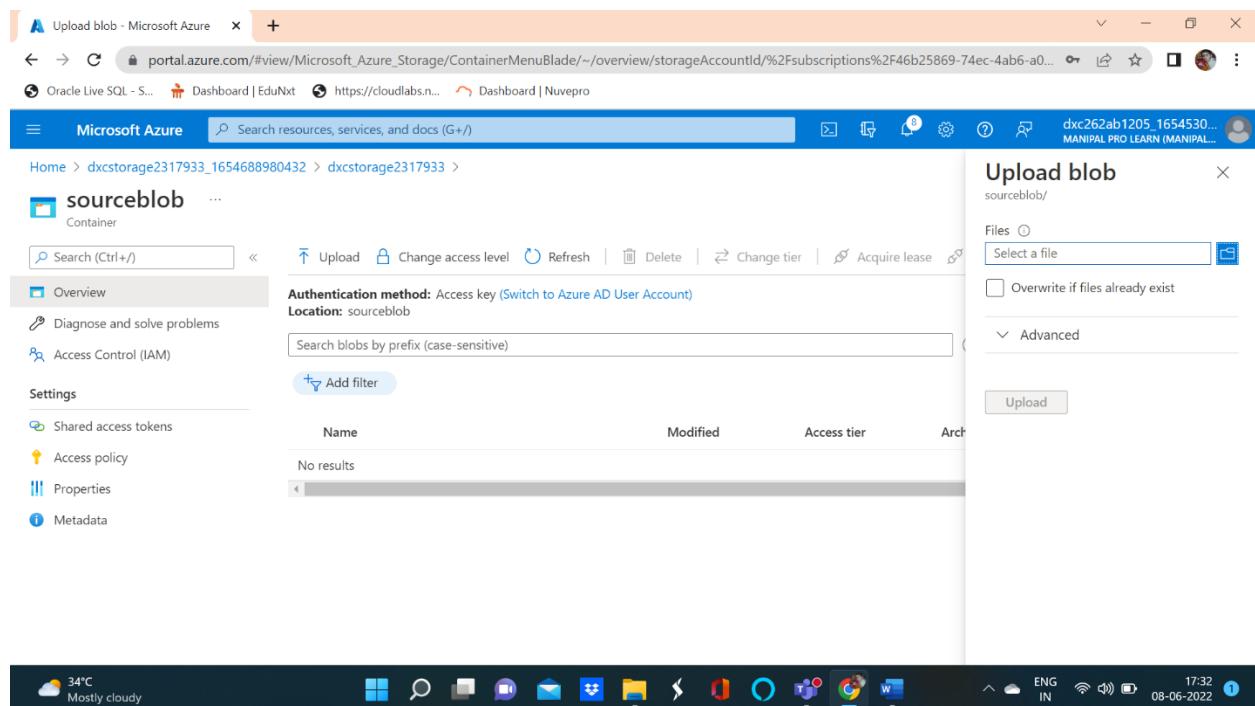
Create destinationblob1 container



The screenshot shows the Microsoft Azure Storage account interface for the container 'dxcstorage2317933'. The left sidebar includes links for Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, and Storage browser (preview). Under Data storage, 'Containers' is selected. The main area displays a table of containers:

Name	Last modified	Public access level	Lease state
\$logs	6/8/2022, 5:20:42 PM	Private	Available
destinationblob1	6/8/2022, 5:29:10 PM	Blob	Available
sourceblob	6/8/2022, 5:30:14 PM	Blob	Available

To upload data into blob choose upload and upload the source file



The screenshot shows the 'Upload blob' dialog for the 'sourceblob' container. The dialog has a 'Select a file' input field and an 'Upload' button. The main pane shows the container settings: Authentication method (Access key) and Location (sourceblob).

Choosing guests.csv file

The screenshot shows the Microsoft Azure Storage Container 'sourceblob'. On the left, there's a sidebar with options like Overview, Diagnose and solve problems, Access Control (IAM), Settings, Shared access tokens, Access policy, Properties, and Metadata. The main area shows a table with columns Name, Modified, Access tier, and Arch. A search bar at the top says 'Search blobs by prefix (case-sensitive)'. To the right, a modal window titled 'Upload blob' is open, showing the file path 'sourceblob/' and a text input field containing '"guests.csv"'. There's a checkbox for 'Overwrite if files already exist' and a 'Upload' button.

Uploading successful

The screenshot shows the Microsoft Azure Storage Container 'sourceblob'. The table now includes a row for 'guests.csv'. To the right, a modal window titled 'Upload Completed for guests.csv' shows the file size '83 B' and the location 'dxcstorage2317933'. It has a 'Select a file' input field, a checkbox for 'Overwrite if files already exist', and an 'Upload' button. Below this, under 'Current uploads', it says 'Dismiss: Completed All' and shows 'guests.csv' with a status of '83 B / 83 B'. The taskbar at the bottom shows system icons and the date '08-06-2022'.

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

The image contains two screenshots of the Microsoft Azure portal. The top screenshot shows the 'Overview' page for the 'dxcsqldb231 (sqlserver231/dxcsqldb231)' database. It displays basic information like location (East US), subscription (move to Azure-DWC262ab12Lab), and compute utilization. The bottom screenshot shows the 'Query editor (preview)' page for the same database, where a user is prompted to enter login credentials (Login: aishu, Password: [redacted]) or choose Active Directory authentication.

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

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

Home > dxcsqldb231 (sqlserver231/dxcsqldb231)

dxcsqldb231 (sqlserver231/dxcsqldb231) | Query editor (preview) ...

Search (Ctrl+/Search) Login New Query Open query Feedback

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

dxcsqldb231 (aishu)
Showing limited object explorer here. For full capability please open SSDT.

Tables Views Stored Procedures

Query 1

Run Cancel query Save query Export data as Show only Editor

```
1
```

Results Messages Search to filter items...

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

Home > dxcsqldb231 (sqlserver231/dxcsqldb231)

dxcsqldb231 (sqlserver231/dxcsqldb231) | Query editor (preview) ...

Search (Ctrl+/Search) Login New Query Open query Feedback

Overview Activity log Tags Diagnose and solve problems Getting started Query editor (preview) Power Platform Power BI Power Apps Power Automate Settings Compute + storage

dxcsqldb231 (aishu)
Showing limited object explorer here. For full capability please open SSDT.

Tables Views Stored Procedures

Query 1

Run Cancel query Save query Export data as Show only Editor

```
1 4AR($$) NOT NULL, address_locality VARCHAR($$), address_city VARCHAR($$) NOT NULL,  
2 3$$) NOT NULL, CONSTRAINT PK_email_address PRIMARY KEY (email_address_id));  
3 ) NULL, person_contacted_number INTEGER NOT NULL, person_date_last_contacted DATETIME  
4 address_address_id INTEGER NOT NULL, CONSTRAINT PK_person_address PRIMARY KEY (perso  
5 n$CHAR($$) NOT NULL, CONSTRAINT PK_phone_number PRIMARY KEY (phone_number_id));
```

Results Messages Search to filter items...

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

Home > dxcsqldb231 (sqlserver231/dxcsqldb231)

dxcsqldb231 (sqlserver231/dxcsqldb231) | Query editor (preview) ...

Search (Ctrl+/Search) Login New Query Open query Feedback

Overview Activity log Tags Diagnose and solve problems Getting started Query editor (preview) Power Platform Power BI Power Apps Power Automate Settings Compute + storage

dxcsqldb231 (aishu)
Showing limited object explorer here. For full capability please open SSDT.

Tables

dbo.address

address_id (PK, int, not null)
address_building_number (varchar, not null)
address_street (varchar, not null)
address_locality (varchar, null)
address_city (varchar, not null)
address_zip_postal (varchar, not null)

Query 2

Run Cancel query Save query Export data as Show only Editor

```
1 select * from address;
```

Results Messages Search to filter items...

address_id	address_building_n...	address_street	address_locality	address...
1	555	azure203Demo	Los An...	

Query succeeded | 4s