

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

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes links for 'Meeting in "General" (Meet)', 'Subscription Details | Nuvepro', 'Home - Microsoft Azure', 'WhatsApp', and '. Explain the steps with screenshots'. The main content area is titled 'Storage accounts' under 'Microsoft Azure'. It displays a list of services including 'Storage accounts', 'Storage Explorer', 'Storage accounts (classic)', 'Storage browser (preview)', 'Storage Sync Services', 'StorSimple Data Managers', 'StorSimple Device Managers', and 'Azure Data Explorer Clusters'. A blue callout box highlights the 'Storage accounts' service with the text: 'Save the current columns and summary as a view or saved views here.' Below this, there are sections for 'Marketplace' (listing 'StoneFly Cloud Storage', 'Stormshield Network Security for Cloud - XL', 'Ainstein ESG', 'Start/Stop VMs during off hours - V2', 'Studio Store - E-commerce') and 'Documentation' (links to 'Choose how to authorize access to blob data in the Azure portal', 'Stop/start - Azure portal - Azure Database for MySQL server', 'Use Azurite emulator for local Azure Storage development', 'Upload files to Azure Blob storage by using AzCopy v10', 'Copy blobs between Azure storage accounts with AzCopy v10', and 'Monitor availability with URL ping tests - Azure Monitor'). At the bottom, there are buttons for 'Previous', 'Page 1 of 1', 'Next >', and 'Showing 1 to 1 of 1 records'. The status bar at the bottom right shows the date '08-06-2022' and time '16:01'.

The screenshot shows the 'Create a storage account' wizard in the Microsoft Azure portal. The top navigation bar includes links for 'Meeting in "General" (Meet)', 'Subscription Details | Nuvepro', 'Create a storage account - Microsoft Azure', 'WhatsApp', and '. Explain the steps with screenshots'. The main content area is titled 'Create a storage account' under 'Storage accounts'. It has tabs for 'Basics', 'Advanced', 'Networking', 'Data protection', 'Encryption', 'Tags', and 'Review + create'. The 'Basics' tab is selected. A descriptive text explains that Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. It includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. A link to 'Learn more about Azure storage accounts' is provided. Below this, there are sections for 'Project details' (subscription 'Azure-DXC262AB12Lab', resource group 'dxorg1') and 'Instance details' (with a note: 'If you need to create a legacy storage account type, please click [here](#)'). At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next : Advanced >'. The status bar at the bottom right shows the date '08-06-2022' and time '16:02'.

Meeting in "General" (Meetin... | Subscription Details | Nuvepro | Create a storage account - Micro... | WhatsApp | Explain the steps with screensh... | +

portal.azure.com/#create/Microsoft.StorageAccount

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

**Basics**

Subscription	Azure-DXC262AB12Lab
Resource Group	dxcorg1
Location	eastus
Storage account name	dxcstorage678
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

Create < Previous Next > Download a template for automation

33°C Mostly cloudy ENG INTL 08-06-2022 16:05

Meeting in "General" (Meetin... | Subscription Details | Nuvepro | dxstorage678\_1654684764446 | WhatsApp | Explain the steps with screensh... | +

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F406c09c5-382f-44be-b843-b50a69eadc92%2FresourceGroups%2Fdxcorg1%2Fproviders...

Microsoft Azure

Search resources, services, and docs (G+)

## dxcstorage678\_1654684764446 | Overview

Deployment

Search (Ctrl+ /) Delete Cancel Redeploy Refresh

We'd love your feedback!

**Your deployment is complete**

Deployment name: dxcstorage678\_1654684764446  
Subscription: Azure-DXC262AB12Lab  
Resource group: dxcorg1

Start time: 6/8/2022, 4:09:34 PM  
Correlation ID: ea85eade-7ad9-4707-9ef2-5d7edce2aad

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  
Go to Microsoft Defender for Cloud >

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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

The screenshot shows the Microsoft Azure portal interface for creating a new virtual machine. The top navigation bar includes tabs for 'Meeting in "General" (Meet)', 'Subscription Details | Nuvepro', 'Create a virtual machine - Microsoft Virtual Machine', and 'WhatsApp'. The main title is 'Create a virtual machine ...'. Below the title, there are tabs for 'Basics', 'Disks', 'Networking', 'Management', 'Advanced', 'Tags', and 'Review + create'. The 'Basics' tab is selected.

The 'Project details' section asks for a subscription and resource group. The subscription is set to 'Azure-DXC262AB12Lab' and the resource group is '(New) Resource group'. There is also an option to 'Create new'.

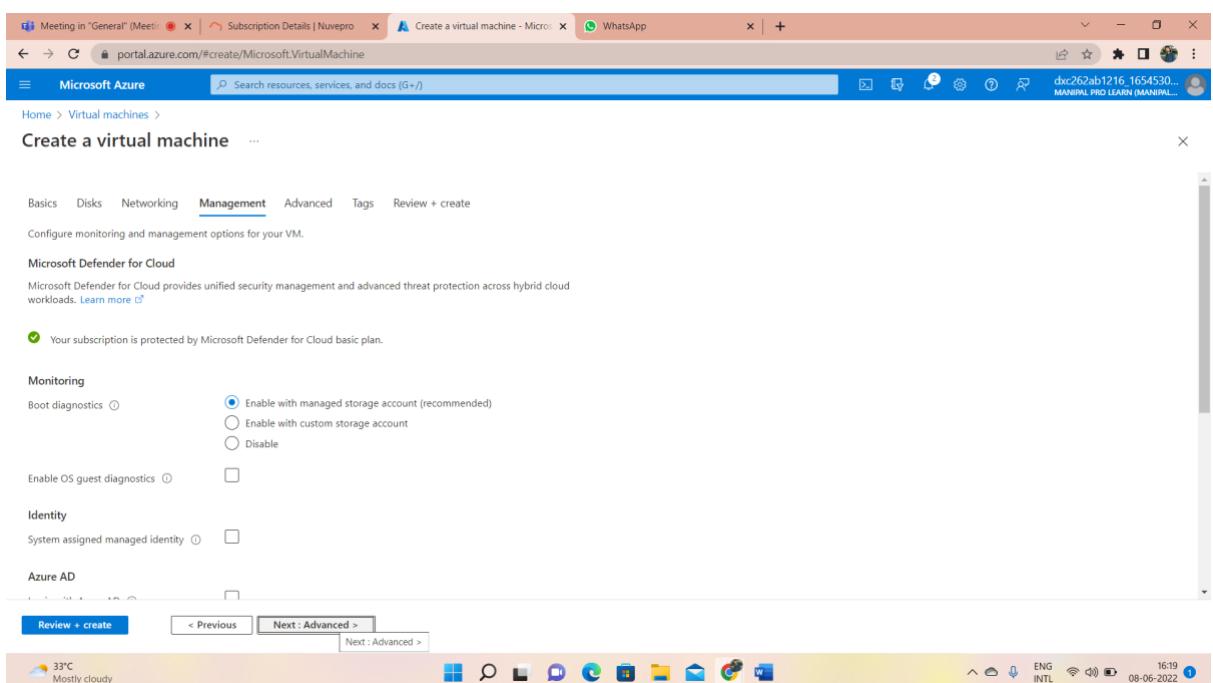
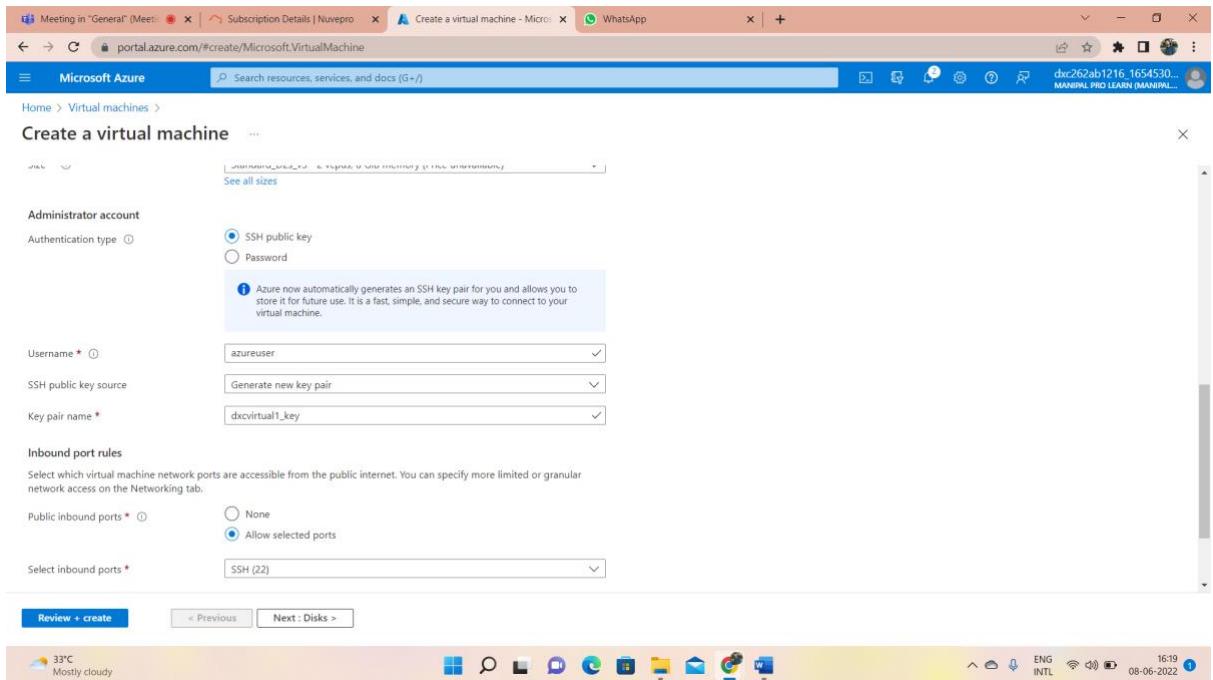
The 'Instance details' section requires a 'Virtual machine name' (which is empty), 'Region' (set to '(US) East US'), 'Availability options' (set to 'Availability zone'), and 'Availability zone' (set to 'Zones 1'). A note indicates that multiple zones can be selected to create one VM per zone.

At the bottom of the page are 'Review + create' and 'Next : Disks >' buttons. The taskbar at the bottom of the screen shows various pinned applications like File Explorer, Edge, and Mail, along with system status icons for battery, signal, and date/time (16:18, 08-06-2022).

This screenshot shows the same 'Create a virtual machine' wizard on the 'Basics' step, but with a different configuration. The 'Resource group' dropdown now contains 'dxcor1'.

The rest of the interface and settings are identical to the first screenshot, including the 'Virtual machine name' field, region, availability options, and security type (set to 'Standard').

The taskbar at the bottom remains the same, showing the pinned applications and system status.



Meeting in "General" (Meetin... | Subscription Details | Nuvepro | Create a virtual machine - Microsoft Virtual Machine | WhatsApp

portal.azure.com/#create/Microsoft.VirtualMachine

Microsoft Azure

Search resources, services, and docs (G+)

Home > Virtual machines > Create a virtual machine

Basics Disks Networking Management Advanced Tags Review + create

Configure monitoring and management options for your VM.

**Microsoft Defender for Cloud**

Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

Your subscription is protected by Microsoft Defender for Cloud basic plan.

**Monitoring**

Boot diagnostics  Enable with managed storage account (recommended)  Enable with custom storage account  Disable

Enable OS guest diagnostics

**Identity**

System assigned managed identity

**Azure AD**

Review + create < Previous Next : Advanced > Next : Advanced >

33°C Mostly cloudy ENG INTL 16:19 08-06-2022

Meeting in "General" (Meetin... | Subscription Details | Nuvepro | CreateVm-canonical.0001-com-ubuntu-server-focal-2-20220608161809 | WhatsApp

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id%2Fsubscriptions%2F406c09c5-382f-44be-b843-b50a69eadc92%2FresourceGroups%2Fdxcong1%2Fproviders...

Microsoft Azure

Search resources, services, and docs (G+)

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20220608161809 | Overview

Deployment

Overview Inputs Outputs Template

We'd love your feedback! →

**Your deployment is complete**

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-f... Start time: 6/8/2022, 4:21:06 PM  
Subscription: Azure-DXG262AB12Lab Resource group: dxcong1 Correlation ID: 5c31bfa2-a8ff-41af-91fb-c2aaef909cb34

Deployment details (Download)

Next steps

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

Go to resource Create another VM

Deployment succeeded Deployment 'CreateVm-canonical.0001-com-ubuntu-server-focal-2-20220608161809' to resource group 'dxcong1' was successful.

Go to resource Pin to dashboard

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

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dixvirtual1\_key.pem

33°C Mostly cloudy ENG INTL 16:22 08-06-2022

```

azureuser@dxcvm2317:~$ ls -lrt
total 0
azureuser@dxcvm2317:~$ date
Wed Jun  8 05:18:20 UTC 2022
azureuser@dxcvm2317:~$ ls -alrt
total 28
-rw-r--r-- 1 azureuser azureuser 807 Feb 25 2020 .profile
-rw-r--r-- 1 azureuser azureuser 3771 Feb 25 2020 .bashrc
-rw-r--r-- 1 azureuser azureuser 220 Feb 25 2020 .bash_logout
-rwxr-xr-x 3 root      root    4096 Jun  8 04:45 ..
-rwx----- 2 azureuser azureuser 4096 Jun  8 04:45 .ssh
-rwx----- 2 azureuser azureuser 4096 Jun  8 04:54 .cache
-rwxr-xr-x 4 azureuser azureuser 4096 Jun  8 04:54 .
azureuser@dxcvm2317:~$ 

```

The screenshot shows the Microsoft Azure portal interface. The main content area displays the 'Create Bastion' wizard for a virtual machine named 'dxcvirtual1'. The configuration details are as follows:

- Name:** dxorg1-vnet-bastion
- Resource group:** dxorg1
- Virtual network:** dxorg1-vnet
- Public IP address:** dxorg1-vnet-ip

A progress bar at the bottom of the wizard indicates the process is 100% complete, with the message "Creating a new Bastion 'dxorg1-vnet-bastion'". Below the wizard, there are two buttons: "Create Azure Bastion using defaults" and "I want to configure Azure Bastion on my own".

The left sidebar of the Azure portal shows the 'Bastion' section under the 'Operations' category. Other options in the sidebar include Auto-shutdown, Backup, Disaster recovery, Updates, and Inventory.

The bottom taskbar shows system information: a file icon labeled 'dxvirtual1\_key.pem', the date '08-06-2022', the time '16:43', and icons for battery level, signal strength, and connectivity.

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

**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 \*

Resource group \*

**Instance details**

Name \*

Region \*

Version \*

**Review + create** < Previous Next : Git configuration >

**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 \*

Resource group \*

**Instance details**

Name \*

Region \*

Version \*

**Review + create** < Previous Next : Git configuration >

**Validation Passed**

**Basics**

Subscription	Azure-DXC262A812Lab
Resource group	dxcor1
Name	dxcdata1
Region	East US
Version	V2 (Recommended)

**Networking**

Create < Previous Next Download a template for automation

dxcvirtual1\_key.pem

33°C Mostly cloudy

**Microsoft.DataFactory-20220608164718 | Overview**

Deployment

Overview

Inputs

Outputs

Template

Deployment name: Microsoft.DataFactory-20220608164718  
Subscription: Azure-DXC262A812Lab  
Resource group: dxcor1  
Start time: 6/8/2022, 4:49:38 PM  
Correlation ID: 99048b0e-3f4f-4f0e-b982-1b04848e6e32

We'd love your feedback!

Your deployment is complete

Deployment details (Download)

Next steps

Go to resource

Cost Management

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dxcvirtual1\_key.pem

33°C Mostly cloudy

The screenshot shows the Microsoft Azure portal interface. The main title bar includes tabs for 'Meeting in "General" (Meetin...', 'Subscription Details | Nuvepro', 'dxodata1 - Microsoft Azure', and 'WhatsApp'. Below the title bar, the URL is 'portal.azure.com/#@manipalazure.onmicrosoft.com/resource/subscriptions/406c09c5-382f-44be-b843-b50a69eadc92/resourceGroups/dxcor1/providers/Microsoft.DataFactory/factories/dxodata1'. The browser address bar also shows the same URL. The page title is 'Microsoft Azure' with the sub-path 'Home > Microsoft.DataFactory-20220608164718 > dxodata1'. The left sidebar contains navigation 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), and a file named 'dxcvirtual1\_key.pem'. The main content area displays the 'Essentials' section with details: Resource group (move) : dxcor1, Status : Succeeded, Location : East US, Subscription (move) : Azure-DXC262AB12Lab, and Subscription ID : 406c09c5-382f-44be-b843-b50a69eadc92. It also includes sections for 'Getting started' (with 'Open Azure Data Factory Studio' and 'Read documentation' buttons) and 'Monitoring' (PipelineRuns and ActivityRuns). The bottom status bar shows the date and time as 08-06-2022 16:50, and icons for weather (33°C, Mostly cloudy), network, battery, and system status.

The screenshot shows the Microsoft Azure portal interface, specifically the 'Data Factory' section for 'dxodata1'. The title bar includes tabs for 'Meeting in "General" (Meetin...', 'Subscription Details | Nuvepro', 'dxodata1 - Microsoft Azure', and 'WhatsApp'. The URL in the browser is 'adf.azure.com/en/home?factory=%2Fsubscriptions%2F406c09c5-382f-44be-b843-b50a69eadc92%2FresourceGroups%2Fdxcor1%2Fproviders%2FMicrosoft.DataFactory%2Ffactories%2Fdxd...'. The page title is 'Microsoft Azure | Data Factory > dxodata1'. A top banner states 'Azure Data Factory allows you to configure a Git repository with either Azure DevOps or GitHub. Git is a version control system that allows for easier change tracking and collaboration. Learn more'. Below this, there's a 'Set up code repository' button. The main content area features a 3D diagram of a factory with various data storage and processing components. It includes four main buttons: 'Ingest' (Copy data at scale once or on a schedule.), 'Orchestrate' (Code-free data pipelines.), 'Transform data' (Transform your data using data flows.), and 'Configure SSIS' (Manage & run your SSIS packages in the cloud.). At the bottom, there's a 'Discover more' section with links to 'Browse partners (preview)', 'Pipeline templates', and 'SAP pipeline templates'. The bottom status bar shows the date and time as 08-06-2022 16:50, and icons for weather (33°C, Mostly cloudy), network, battery, and system status.

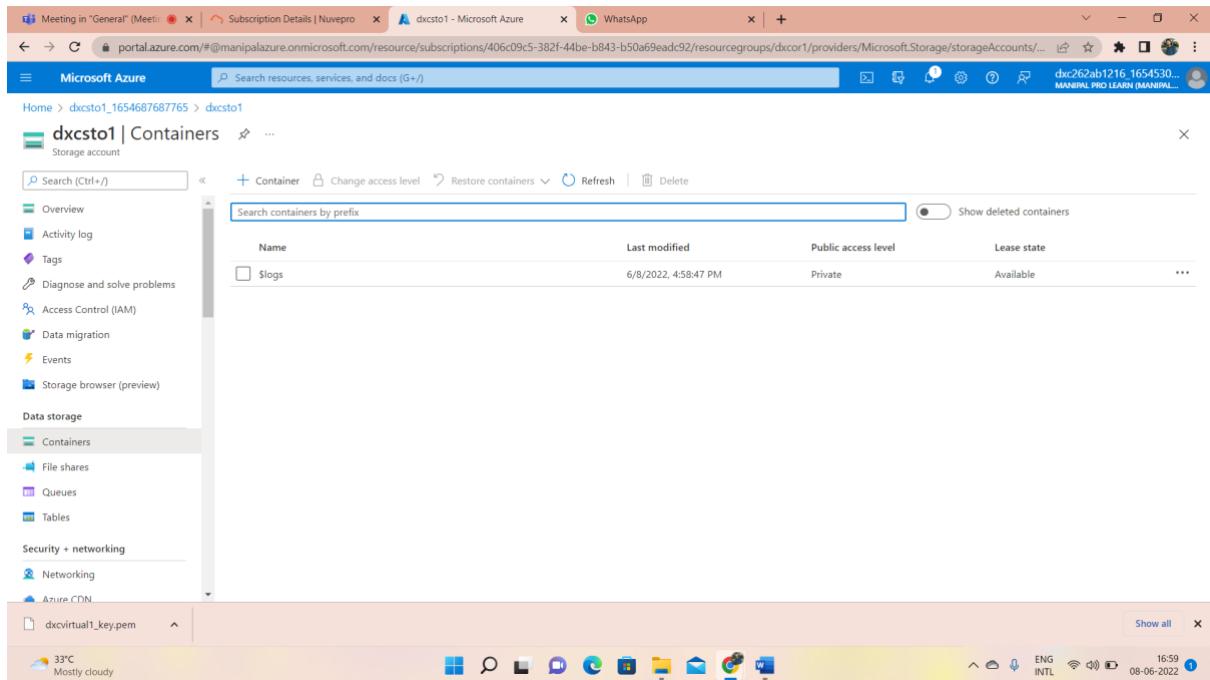
4.Explain the steps with screenshots how to copy data from source blob to destination blob ?

The screenshot shows the Microsoft Azure Storage accounts page. A single storage account, 'praveen', is listed. The account type is 'Storage account', it is located in 'StorageV2' resource group, and its location is 'UK South'. A modal window is open in the top right corner, asking 'How likely are you to recommend portal.azure.com to a friend or colleague?' with a scale from 0 (Not at all likely) to 10 (Extremely likely). A blue callout bubble points to the 'List view' button in the top right of the main table.

The screenshot shows the Microsoft Azure deployment details blade for a deployment named 'dxcsto1\_1654687687765'. The status is 'Deployment succeeded'. Deployment details include a deployment name of 'dxcsto1\_1654687687765', subscription 'Azure-DXC262AB12Lab', and resource group 'dxcorg1'. The deployment started on 6/8/2022, 4:58:15 PM. The blade also features sections for 'Cost Management', 'Microsoft Defender for Cloud', 'Free Microsoft tutorials', and 'Work with an expert'.

## Second storage account for destination

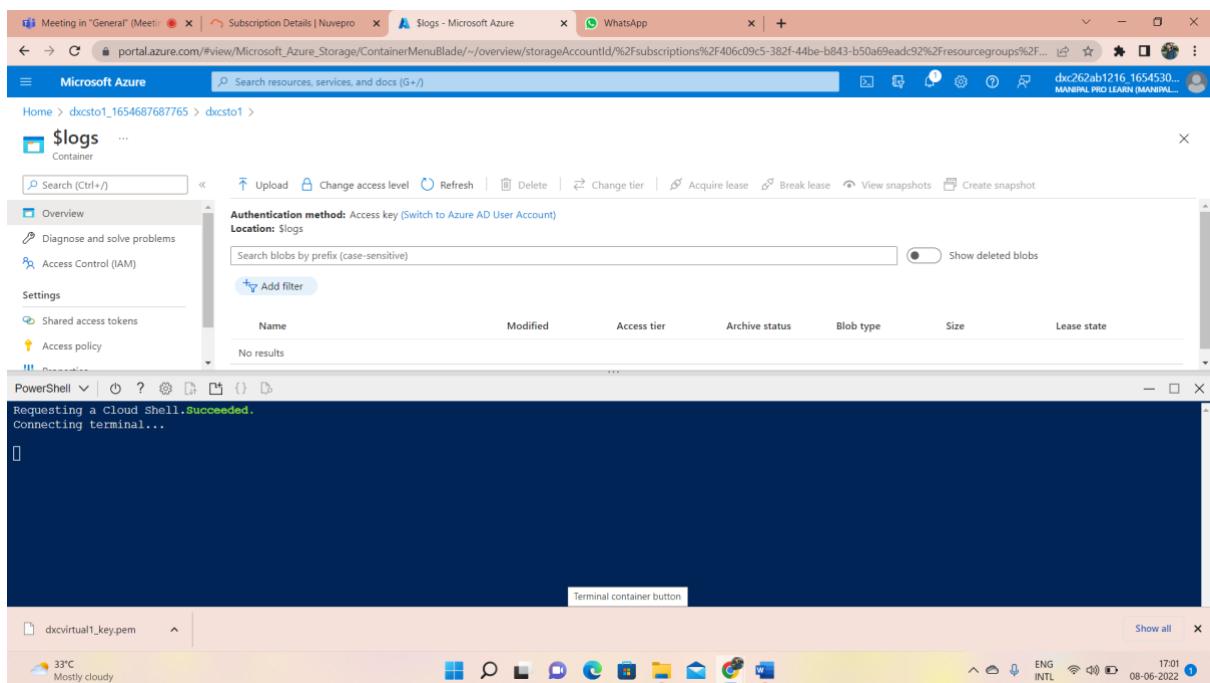
This screenshot is identical to the one above, showing the Microsoft Azure deployment details blade for the same deployment named 'dxcsto1\_1654687687765'. The deployment has succeeded, and the blade displays the same detailed information and associated services as the previous screenshot.



The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes tabs for "Meeting in 'General'" (Meet), "Subscription Details | Nuvepro", "dxcsto1 - Microsoft Azure", and "WhatsApp". The main title bar says "Microsoft Azure" and "dxcsto1 | Containers". The left sidebar has sections for "Storage account" (Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, Storage browser (preview)), "Data storage" (Containers, File shares, Queues, Tables), and "Security + networking" (Networking, Azure CDN). The main content area displays a table of containers:

Name	Last modified	Public access level	Lease state
Slogs	6/8/2022, 4:58:47 PM	Private	Available

The status bar at the bottom shows "dxc262ab1216.1654530..." and "MANUAL PRO LEARN (MANUAL...)". The taskbar includes icons for File Explorer, Task View, Start, Taskbar settings, and Edge browser, along with system status indicators like battery level (33°C, Mostly cloudy) and system time (16:59, 08-06-2022).



This screenshot shows the Microsoft Azure portal interface again, specifically the "Logs" container within the "dxcsto1" storage account. The top navigation bar and sidebar are identical to the previous screenshot. The main content area shows the blob details for the "Slogs" container:

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

The table lists blobs:

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
No results						

A PowerShell terminal window is open at the bottom, showing the command "Requesting a Cloud Shell.succeeded." and "Connecting terminal...". The status bar and taskbar are also present.

The screenshot shows a data processing interface with a preview tab selected. The preview table contains the following data:

Rating	rotten tomatoes	releasyear	Month	myfile
1	54	2019	7	/partdata/releasyear=2019/...
7	80	2019	7	/partdata/releasyear=2019/...
6	92	2019	7	/partdata/releasyear=2019/...
4	82	2019	7	/partdata/releasyear=2019/...
9	92	2019	7	/partdata/releasyear=2019/...
4	59	2019	7	/partdata/releasyear=2019/...
3	83	2019	7	/partdata/releasyear=2019/...
2	61	2019	7	/partdata/releasyear=2019/...
4	63	2019	7	/partdata/releasyear=2019/...
8	50	2019	7	/partdata/releasyear=2019/...

Below the table, there is a note: "List of files: This is a file set. Create a text file that includes a list of relative path files to process. Point to this text file." and a tip: "Column to store file name: Store the name of the source file in a column in your data. Enter a new column name here to store the file name string."

The taskbar at the bottom shows various icons and the date/time: 08-06-2022 17:03.

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

The screenshot shows the Microsoft Azure portal search results for "vnet". The search bar at the top has "vnet" typed into it. The results page displays the following items:

- All Services (33)
- Resources (6)
- Resource Groups (0)
- Marketplace (20)
- Documentation (28)

Services

- Virtual machines
- Virtual networks
- Virtual WANs
- Virtual network gateways
- Virtual networks (classic)
- Virtual machine scale sets

Resources

- Virtual Visits Builder
- Virtual clusters

Recent

- Searching all subscriptions.
- Name: dxcor1, type: Resource group, last viewed: 7 minutes ago
- Name: praveen, type: Storage account, last viewed: 10 minutes ago

See all

Give feedback

Last viewed

Navigation links: Subscriptions, Resource groups, All resources, Dashboard.

Tools

The taskbar at the bottom shows the file "dxcvirtual1\_key.pem", the weather "34°C Mostly cloudy", and the date/time: 08-06-2022 17:13.

**Create virtual network**

**Basics** IP Addresses Security Tags Review + create

Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks. VNet is similar to a traditional network that you'd operate in your own data center, but brings with it additional benefits of Azure's infrastructure such as scale, availability, and isolation. [Learn more about virtual network](#)

**Project details**

Subscription \*  ✓

Resource group \*  ✓

**Instance details**

Name \*

Region \*  ✓

**Review + create** < Previous Next : IP Addresses > Download a template for automation

**Create virtual network**

**Basics** IP Addresses Security Tags Review + create

Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks. VNet is similar to a traditional network that you'd operate in your own data center, but brings with it additional benefits of Azure's infrastructure such as scale, availability, and isolation. [Learn more about virtual network](#)

**Project details**

Subscription \*  ✓

Resource group \*  ✓

**Instance details**

Name \*  ✓

Region \*  ✓

**Review + create** < Previous Next : IP Addresses > Download a template for automation

The virtual network's address space, specified as one or more address prefixes in CIDR notation (e.g. 192.168.1.0/24).

IPv4 address space

10.1.0.0/16 10.1.0.0 - 10.1.255.255 (65536 addresses)

Add IPv6 address space

The subnet's address range in CIDR notation (e.g. 192.168.1.0/24). It must be contained by the address space of the virtual network.

+ Add subnet Remove subnet

Subnet name	Subnet address range	NAT gateway
default	10.1.0.0/24	-

Use of a NAT gateway is recommended for outbound internet access from a subnet. You can deploy a NAT gateway and assign it to a subnet after you create the virtual network. [Learn more](#)

Review + create < Previous Next : Security > Download a template for automation

Azure services

Create a resource Storage accounts Data factories Resource groups Virtual machines Azure Synapse Analytics Monitor Virtual networks SQL databases More services

Resources

Recent Favorite

Name	Type	Last Viewed
dxcor1	Resource group	7 minutes ago

Bash

```
dx262ab1216@Azure:~$ az group create --name 'MyResourceGroup' --location 'East us 2'
{
  "id": "/subscriptions/406c09c5-382f-44be-b50a69eadc92/resourceGroups/MyResourceGroup",
  "location": "eastus2",
  "managedBy": null,
  "name": "MyResourceGroup",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
dx262ab1216@Azure:~$
```

Show all < Previous Next : Security > Download a template for automation

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

Azure Synapse Analytics

Subscription == all | Resource group == all | Location == all

Name	Type	Resource group	Location
dxcsynapse	Synapse workspace	dxcorg1	UK South

Give feedback

dxvirtual1\_key.pem

34°C Mostly cloudy

ENG INTL 08-06-2022 17:21

Create Synapse workspace

Basics Security Networking Tags Review + create

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 \* 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 \* Enter workspace name

Region \* East US 2

Review + create < Previous Next: Security >

dxvirtual1\_key.pem

34°C Mostly cloudy

ENG INTL 08-06-2022 17:22

The screenshot shows the Microsoft Azure portal with the URL [portal.azure.com/#create/Microsoft.Synapse](https://portal.azure.com/#create/Microsoft.Synapse). The page title is "Create Synapse workspace". The "Security" tab is selected. The "Configure security options for your workspace" section contains the following configuration:

- Authentication method:**  Use both local and Azure Active Directory (Azure AD) authentication
- SQL Server admin login:** sqldminuser
- SQL Password:** [REDACTED]
- Confirm password:** [REDACTED] (Password and confirm password must match)

Below this, there is a note about "System assigned managed identity permission" and a checkbox for "Allow network access to Data Lake Storage Gen2 account".

At the bottom, there are "Review + create" and "Next: Networking >" buttons.

The screenshot shows the Microsoft Azure portal with the URL [portal.azure.com/#create/Microsoft.Synapse](https://portal.azure.com/#create/Microsoft.Synapse). The page title is "Create Synapse workspace". The "Networking" tab is selected. The "Configure networking options for your workspace" section contains the following configuration:

- Managed virtual network:**  Enable
- Firewall rules:** A warning message states: "Azure Synapse Studio and other client tools will only connect to the workspace endpoints if this setting is selected. Connections from specific IP addresses or all Azure services can be allowed or disallowed after the workspace is provisioned."
- Allow connections from all IP addresses:**

At the bottom, there are "Review + create", "Next: Tags >", and "Next: Tags >" buttons.

Validation succeeded

Product Details

Azure Synapse Analytics workspace by Microsoft

Serverless SQL est. cost/TB

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: (new) dxcsy1

Create < Previous Next > Download a template for automation

Microsoft.Azure.SynapseAnalytics-20220608172246 | Overview

Deployment

Search (Ctrl+)

Overview

We'd love your feedback!

Deployment is in progress

Deployment name: Microsoft.Azure.SynapseAnalytics-20220608172246 Start time: 6/8/2022, 5:26:53 PM

Subscription: Azure-DXC262AB12Lab Correlation ID: 0768080e-28fe-47e4-ba90-d5deba20eec0

Resource group: dxcsy1

Deployment details (Download)

Resource	Type	Status	Operation details
dxcsy	Microsoft.Synapse/worksspaces	Created	<a href="#">Operation details</a>
pravee/default/prav	Microsoft.Storage/storageAccounts/blobService...	Created	<a href="#">Operation details</a>
pravee	Microsoft.Storage/storageAccounts	OK	<a href="#">Operation details</a>

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

The screenshot shows the Microsoft Azure portal homepage. The top navigation bar includes links for Home, Help & support, Sign in, and Log out. The search bar contains the placeholder "Search resources, services, and docs (G+ /)". The left sidebar has sections for "Recent services" (Azure Synapse Analytics, Monitor, Resource groups, Data factories, Virtual networks, Storage accounts, Virtual machines, SQL databases) and "Recent resources" (dxcynapse12, dxcorg1, praveen). The main content area displays "Last Viewed" items from 2 hours ago. The bottom navigation bar includes links for Subscriptions, Resource groups, All resources, and Dashboard. The system tray at the bottom shows the date (08-06-2022), time (17:33), and weather (34°C, Mostly cloudy).

The screenshot shows the "Azure Synapse Analytics" resource list page. The top navigation bar includes links for Home, Help & support, Sign in, and Log out. The search bar contains the placeholder "Search resources, services, and docs (G+ /)". The left sidebar has a "Recent services" section. The main content area lists two Synapse workspaces: "dxcy" (Resource group: dxcsy1, Location: East US 2) and "dxcynapse12" (Resource group: dxcorg1, Location: UK South). A tooltip in the bottom right corner says "Switch between a list view of your resources and a summary chart view of resource counts." The bottom navigation bar includes links for Create, Manage view, Refresh, Export to CSV, Open query, Assign tags, and a filter bar. The system tray at the bottom shows the date (08-06-2022), time (17:33), and weather (34°C, Mostly cloudy).

The screenshot shows the footer of the Microsoft Azure portal. It includes links for < Previous, Page 1 of 1, Next >, and a message saying "Showing 1 to 2 of 2 records." Below this is a link to "https://portal.azure.com/#". The bottom navigation bar includes links for Subscriptions, Resource groups, All resources, and Dashboard. The system tray at the bottom shows the date (08-06-2022), time (17:33), and weather (34°C, Mostly cloudy).

**Create Synapse workspace - Microsoft Azure**

portal.azure.com/#create/Microsoft.Synapse

Microsoft Azure

Search resources, services, and docs (G+)

Home > Azure Synapse Analytics >

## Create Synapse workspace

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

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

Managed resource group

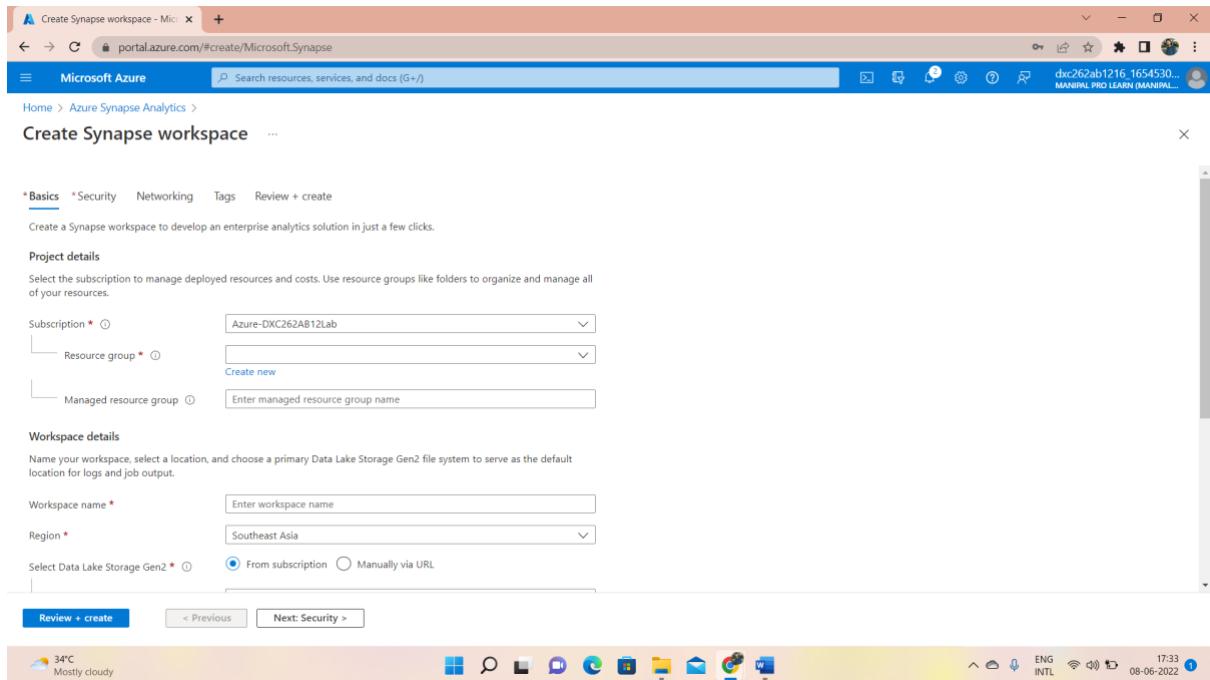
**Workspace details**

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 \*  Region \*  Select Data Lake Storage Gen2 \*  From subscription  Manually via URL

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

34°C Mostly cloudy ENG INTL 17:33 08-06-2022



**dxcSynapse12 - Microsoft Azure**

portal.azure.com/#/manipalazure.onmicrosoft.com/resource/subscriptions/406c09c5-382f-44be-b843-b50a69eadc92/resourceGroups/dxcorg1/providers/Microsoft.Synapse/workspace... +

Microsoft Azure

Search resources, services, and docs (G+)

Home > dxcorg1 >

## dxcSynapse12

Synapse workspace

[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 \(preview\)](#)

[Security](#) [Encryption](#) [Networking](#) [Identity](#)

[New dedicated SQL pool](#) [New Apache Spark pool](#) [New Data Explorer pool \(preview\)](#) [Refresh](#) [Reset SQL admin password](#) [Delete](#)

Subscription (move) : [Azure-DXC262AB12Lab](#) SQL admin username : [sqladminuser](#)

Subscription ID : [406c09c5-382f-44be-b843-b50a69eadc92](#) SQL Active Directory ad... : [dxc262ab1216-1654530054582@manipalazure.onmicrosoft.com](#)

Managed virtual network : No Dedicated SQL endpoint : [dxcSynapse12.sql.azuresynapse.net](#)

Managed Identity object ... : [b97769d3-835b-4d7d-934b-d7ced793209](#) Serverless SQL endpoint : [dxcSynapse12-ondemand.sql.azuresynapse.net](#)

Workspace web URL : [https://web.azuresynapse.net?workspace=%2bsubscriptions%2f40...](#) Development endpoint : [https://dxcSynapse12.dev.azuresynapse.net](#)

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

**Getting started**

[Open Synapse Studio](#) Start building your fully-integrated analytics solution and unlock new insights. [Open](#)

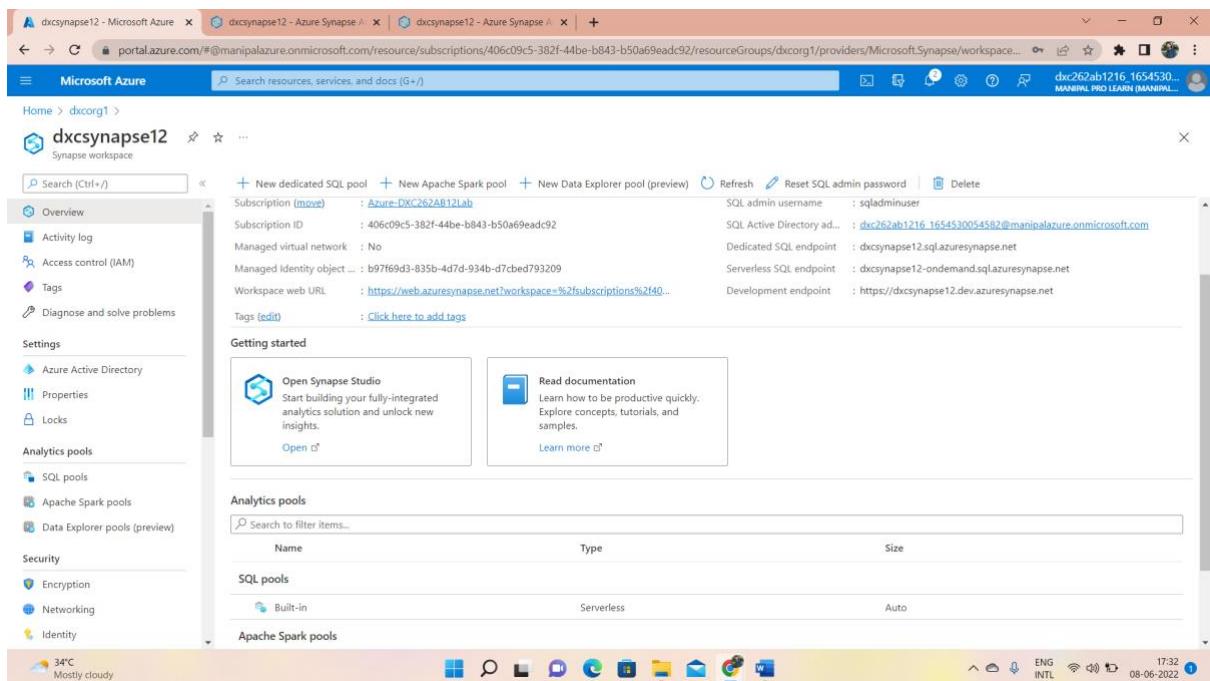
[Read documentation](#) Learn how to be productive quickly. Explore concepts, tutorials, and samples. [Learn more](#)

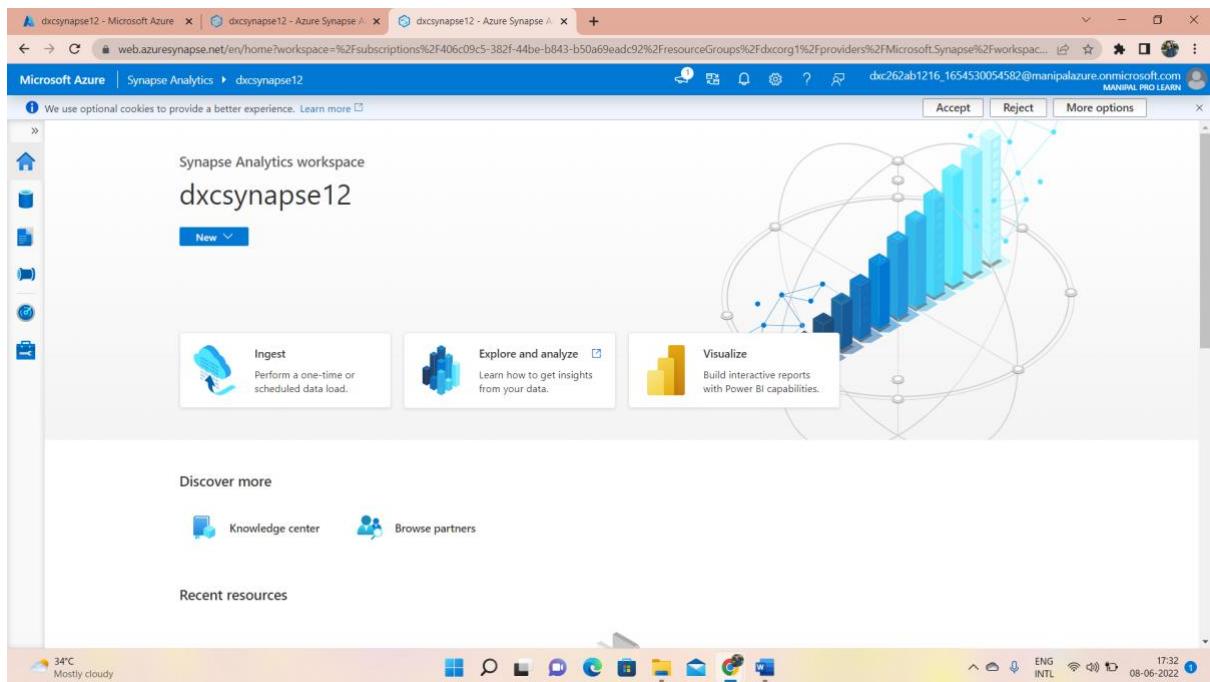
**Analytics pools**

Search to filter items...

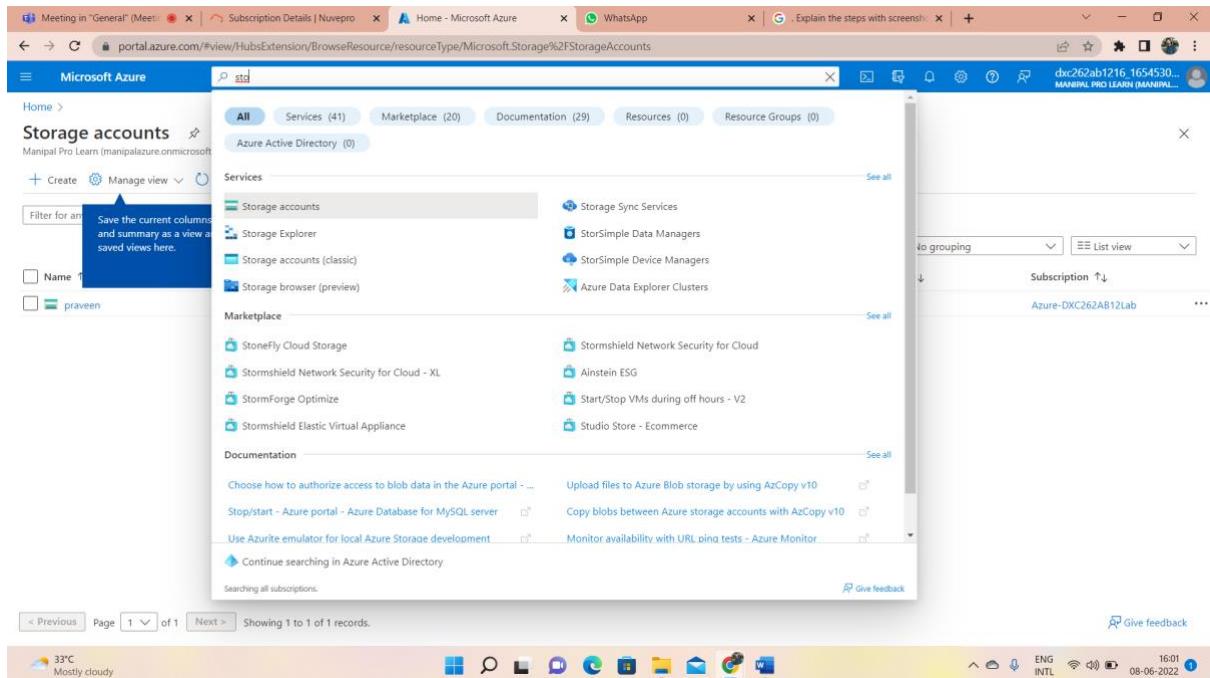
Name	Type	Size
Built-in	Serverless	Auto

34°C Mostly cloudy ENG INTL 17:32 08-06-2022





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



**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](#).

**Review + create**    < Previous    Next : Advanced >

**Validation passed**

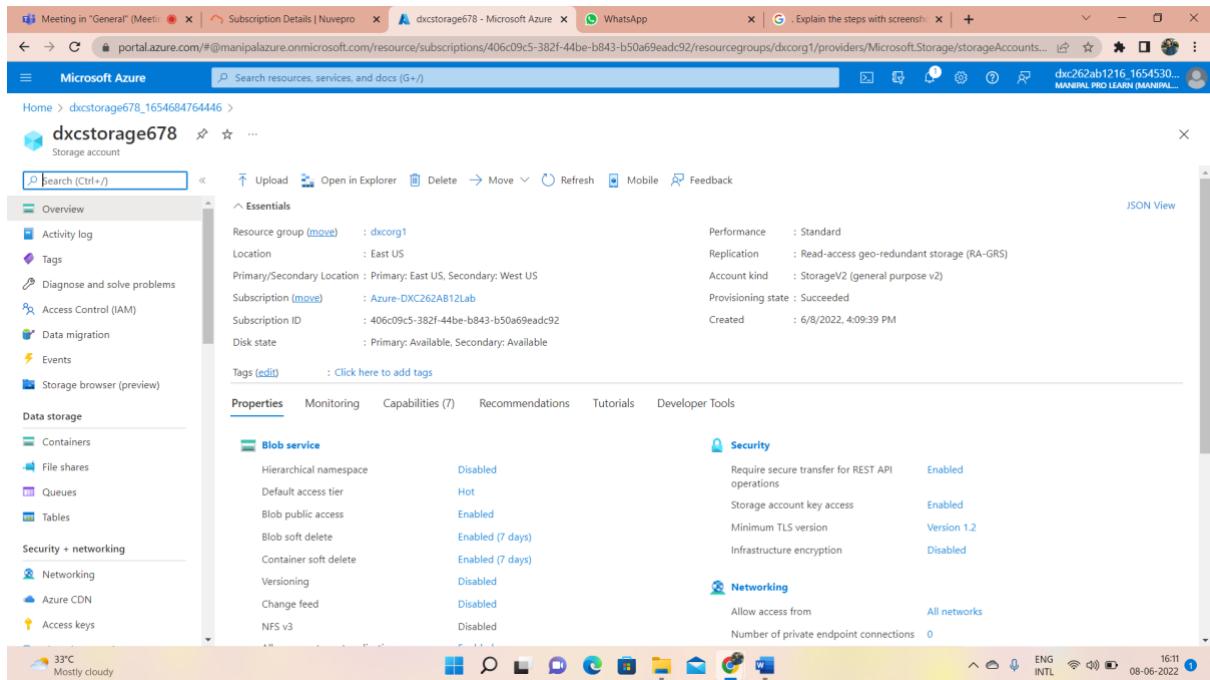
**Basics**

Subscription	Azure-DXC262AB12Lab
Resource Group	dxcorg1
Location	eastus
Storage account name	dxcstorage678
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

**Create**    < Previous    Next >    Download a template for automation

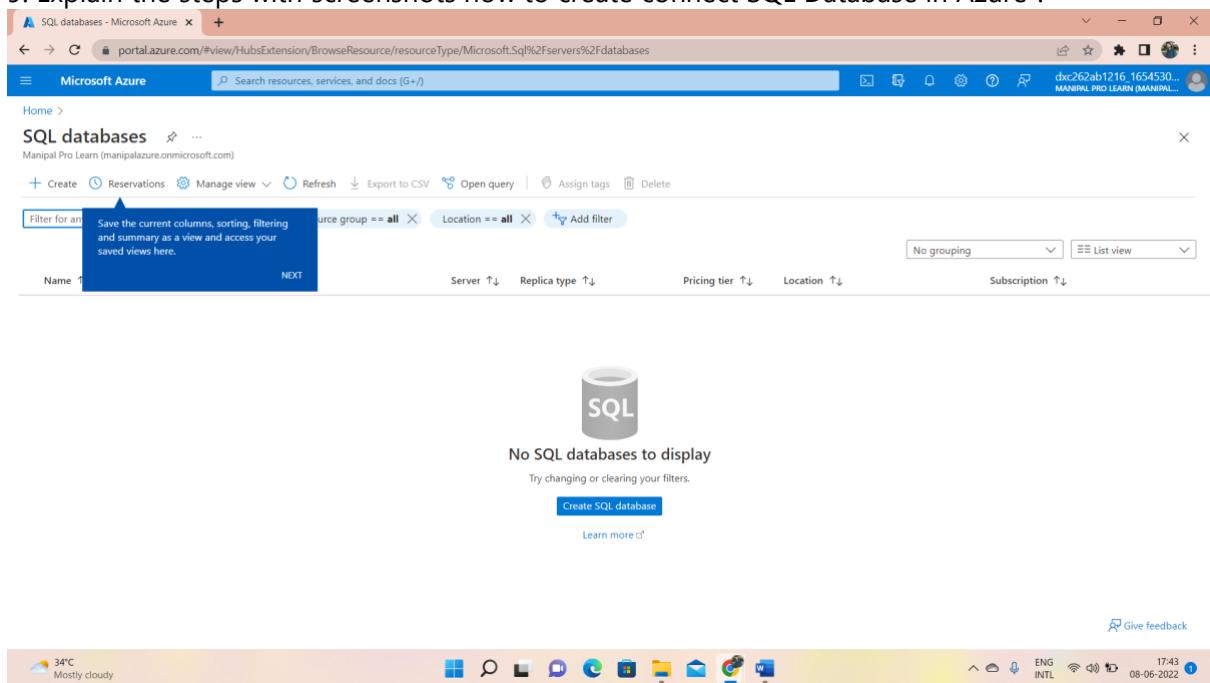


This screenshot shows the Microsoft Azure Storage account details page for 'dxstorage678\_1654684764446'. The main content area displays the 'Essentials' section with various configuration details:

Setting	Value
Resource group (move)	dxcorg1
Location	East US
Primary/Secondary Location	Primary: East US, Secondary: West US
Subscription (move)	Azure-DX262AB12ab
Subscription ID	406c09c5-382f-44be-b843-b50a69eadc92
Disk state	Primary: Available, Secondary: Available
Performance	Standard
Replication	Read-access geo-redundant storage (RA-GRS)
Account kind	StorageV2 (general purpose v2)
Provisioning state	Succeeded
Created	6/8/2022, 4:09:39 PM

The left sidebar contains navigation links for Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, and Storage browser (preview). The bottom of the screen shows the Windows taskbar with weather information (33°C, Mostly cloudy) and system status.

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



This screenshot shows the Microsoft Azure SQL databases management page. The main content area displays a table with no results found:

Name	Server	Replica type	Pricing tier	Location	Subscription
No SQL databases to display					

The left sidebar contains navigation links for Create, Reservations, Manage view, Refresh, Export to CSV, Open query, Assign tags, and Delete. The bottom of the screen shows the Windows taskbar with weather information (34°C, Mostly cloudy) and system status.

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

A screenshot of the Microsoft Azure portal showing the 'SQL databases' page. The URL is <https://portal.azure.com/#view/HubsExtension/BrowseResource/resourceType/Microsoft.Sql%2Fservers%2Fdatabase>. The page title is 'Microsoft Azure'. The top navigation bar includes 'Search resources, services, and docs (G+)', 'Assign tags', and 'Delete'. Below the navigation bar, there are filters for 'Source group == all', 'Location == all', and 'Assign tags'. A tooltip is shown over the 'Assign tags' button, containing the text: 'Save the current columns, sorting, filtering and summary as a view and access your saved views here.' There are also buttons for 'Create', 'Reservations', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', 'Assign tags', and 'Delete'. The main content area shows a large 'SQL' icon and the message 'No SQL databases to display'. It includes a note 'Try changing or clearing your filters.', a 'Create SQL database' button, and a 'Learn more' link.

A screenshot of the Microsoft Azure portal showing the 'Create SQL Database Server' page. The URL is <https://portal.azure.com/#view/SqIAzureExtension/SharedCreateServer/isNewServer~/true/subscriptionId/406c09c5-382f-44be-b843-b50a69eadc92/resourceGroupName/dxcsto8/infoFilters~/...>. The page title is 'Microsoft Azure'. The top navigation bar includes 'Search resources, services, and docs (G+)', 'Create', 'Reservations', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', 'Assign tags', and 'Delete'. The main content area shows fields for 'Server name \*' (input: 'praveen.database.windows.net') and 'Location \*' (input: '(US) East US'). Under 'Authentication', there are three radio buttons: 'Use SQL authentication' (selected), 'Use only Azure Active Directory (Azure AD) authentication', and 'Use both SQL and Azure AD authentication'. Below these are fields for 'Server admin login \*' ('praveen'), 'Password \*' (redacted), and 'Confirm password \*' (redacted). At the bottom right, there is an 'OK' button. The status bar at the bottom shows '34°C Mostly cloudy', system icons, and the date/time '08-06-2022 17:48'.

**Create SQL Database**

Product details

SQL database by Microsoft

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 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 Networking Security Additional settings Tags Review + create

Subscription: Azure-DXC262AB12Lab  
Resource group: dxcst08  
Region: East US  
Database name: dxcstore8  
Server: (new) prave  
Authentication method: SQL authentication  
Server admin login: oraveen

Create < Previous Download a template for automation

**Microsoft.SQLDatabase.newDatabaseNewServer\_39adeca75d9f4ed58fba7 | Overview**

Deployment

Search (Ctrl+ /)

Overview Inputs Outputs Template

We'd love your feedback! →

\*\*\* Deployment is in progress

Deployment name: Microsoft.SQLDatabase.newDatabaseNewServer\_39adeca75d9f4ed58fba7 Start time: 6/8/2022, 5:50:21 PM  
Subscription: Azure-DXC262AB12Lab Correlation ID: f6d6cd4-484f-4cc0-b11e-0f2979f7d656

Deployment details (Download)

Resource	Type	Status	Operation details
sqlva4llblydkz5dv6	Microsoft.Storage/storageAccounts	OK	<a href="#">Operation details</a>
sqlva4llblydkz5dv6	Microsoft.Storage/storageAccounts	OK	<a href="#">Operation details</a>
prave	Microsoft.Sql/servers	Created	<a href="#">Operation details</a>

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

Microsoft.SQLDatabase.newDatabase | Overview

Your deployment is complete

Deployment name: Microsoft.SQLDatabase.newDatabaseNewServer... Start time: 6/8/2022, 5:50:21 PM

Subscription: Azure-DXC262AB12Lab Correlation ID: f6d6cd44-484f-4cc0-b11e-012979f7d656

Resource group: dxcto8

Deployment details (Download)

Next steps

Go to resource

Cost Management

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dxcto8 (prave/dxcto8) - Microsoft Azure

This database was just created. Do you need any help getting started?

Essentials

Resource group (move) : dxcto8

Status : Online

Location : East US

Subscription (move) : Azure-DXC262AB12Lab

Subscription ID : 406c09c5-382f-44be-b843-b50a69eadc92

Tags (edit) : Click here to add tags

Server name : prave.database.windows.net

Elastic pool : No elastic pool

Connection strings : Show database connection strings

Pricing tier : General Purpose: Gen5 2 vCores

Earliest restore point : No restore point available

Show data for last: 1 hour 24 hours 7 days

Aggregation type: Max

Compute utilization

100%  
90%  
80%  
70%  
60%  
50%  
40%  
30%  
20%  
10%

Database data storage

0.01% USED SPACE  
Used space 4 MB

And provide your Login and Password to query the SQL database on Azure. Click OK.

azsqlphackdb (azsqlphackserver/azsqlphackdb) | Query editor (preview)

Welcome to SQL Database Query Editor

SQL server authentication

Login:  OR Active Directory authentication

Password:

OK

The below screenshot shows that currently, there are no tables, no data in this database.

ps://www.sqlphack.com/wp-content/uploads/2020/04/loading-data-into-sql-database-using-scala-notebook-4.png

virtual1\_key.pem

34°C Mostly cloudy

17:56 08-06-2022

virtual1\_key.pem

34°C Mostly cloudy

17:57 08-06-2022