

School: CLOUDBOOSTA	Course: Cloud Computing & DevOps
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	Class 3: Assignment 1b_ Practical demo _Azure Blob Storage
Student No: CBALC0168	Issue Date: March 10, 2026

Tasks:

1. Understanding Azure storage account, and Blob container
2. Uploading and organising files
3. Setting tags and locks to manage and protect the storage account
4. Learning how Azure monitors storage usage and access patterns

Screenshots follow.

Microsoft Azure

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

Copilot

samuelonyejekwe852@...
DEFAULT DIRECTORY (SAMUELO...

Home > Storage center

Storage center | Blob Storage

View storage accounts with critical alerts

List storage accounts with potential vulnerabilities +1

Default Directory (samuelonyejekwe852gmail.onmicrosoft.com)

Search

SummaryResources

Overview

All storage resources

> Object storage

> File storage

> Block storage

> Data management

> Migration

> Partner solutions

> Management services

> Help

+ Create

Restore

Manage view

Refresh

Export to CSV

Open query

Assign tags

Group by none

Filter for any field...

Subscription equals all

Resource Group equals all

Location equals all

Add filter

No storage accounts to display

Create a storage account to store up to 500TB of data in the cloud. Use a general-purpose storage account to store object data, use a NoSQL data store, define and use queues for message processing, and set up file shares in the cloud. Use the Blob storage account and the hot or cool access tiers to optimize your costs based on how frequently your object data is accessed.

+ Create

Showing 1 - 0 of 0. Display count: auto

Give feedback

Create a storage account

×

- Basics
- Advanced
- Networking
- Data protection
- Encryption
- Tags
- Review + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage 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.

[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 subscription 1

Resource group *

Resourcegroup

[Create new](#)

Instance details

Create a storage account ...

✕

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Subscription *

Azure subscription 1

Resource group *

Resourcegroup

Create new

Instance details

Storage account name *

training55hub

Region *

(Europe) West Europe

Deploy to an Azure Extended Zone

Preferred storage type

Azure Blob Storage or Azure Data Lake Storage Gen 2



 This helps us provide relevant guidance. It doesn't restrict your storage to this resource type. [Learn more](#)

Primary workload

Cloud native



 Best for efficient app development and deployment

Pick the closest match to your workload to get a recommended configuration built on best practices. You can edit this configuration anytime. [See comparison table](#)

Performance *

☒

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

☐

 Premium: Recommended for scenarios that require low latency.



 Standard performance is recommended for the Cloud native workload.

Redundancy *

Locally-redundant storage (LRS)



 RA-GRS is recommended for the Cloud native workload.

Create a storage account



- Basics
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 [View automation template](#)

Basics

Subscription	Azure subscription 1
Resource group	Resourcegroup
Location	West Europe
Storage account name	training55hub
Preferred storage type	Azure Blob Storage or Azure Data Lake Storage Gen 2
Primary workload	Cloud native Modified (Reset all to default)
	 These properties have been modified from the default recommendations: Redundancy: LRS (Recommended: RA-GRS)
Performance	Standard
Replication	Locally-redundant storage (LRS)

Advanced

Enable hierarchical namespace	Disabled
Enable SFTP	Disabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled
Access tier	Hot
Managed identity for SMB	Disabled

Security

Secure transfer	Enabled
Blob anonymous access	Disabled
Allow storage account key access	Enabled
Default to Microsoft Entra authorization in the Azure portal	Disabled
Minimum TLS version	Version 1.2
Permitted scope for copy operations	From any storage account

Networking

Public network access	Enabled
Public network access scope	Enabled from all networks
Default routing tier	Microsoft network routing

Data protection

Point-in-time restore	Disabled
Blob soft delete	Enabled
Blob retainment period in days	7
Container soft delete	Enabled
Container retainment period in days	7
File share soft delete	Enabled
File share retainment period in days	7
Versioning	Disabled
Blob change feed	Disabled
Version-level immutability support	Disabled

Encryption

Encryption type	Microsoft-managed keys (MMK)
Enable support for customer-managed keys	Blobs and files only
Enable infrastructure encryption	Disabled

Previous

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Create

 Give feedback

training55hub_1773341977123 | Overview ...

Deployment

Search

 Delete
 Cancel
 Redeploy
 Download
 Refresh

 Overview

 Inputs

Outputs

 Template

✔ Your deployment is complete

Deployment name : training55hub_1773341977123 Start time : 3/12/2026, 9:00:16 PM
Subscription : Azure subscription 1 Correlation ID : f72baa4b-b77e-4e46-9f54-630...
Resource group : Resourcegroup

> Deployment details

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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Work with an expert

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training55hub | Containers

Storage account

Search

«

+ Add container

↑ Upload

↻ Refresh

🗑 Delete

🔒 Change access level

↶

Search containers by prefix

Showing all 1 items

☐	Name	Last modified
☐	\$logs	3/12/2026, 9:...

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Partner solutions

Resource visualizer

Data storage

Containers

File shares

Queues

Tables

> Security + networking

> Data management

> Settings

> Monitoring

> Monitoring (classic)

> Automation

> Help

Add or remove favorites by pressing **Ctrl+Shift+F**

New container

Name *

course-materials

Anonymous access level ⓘ

Private (no anonymous access)

ⓘ The access level is set to private because anonymous access is disabled on this storage account.

Advanced

Create

Give feedback

training55hub | Containers ☆ ...

Storage account.

Search

- [+ Add container](#)
[↑ Upload](#)
[↻ Refresh](#)
[🗑 Delete](#)
[🔒 Change access level](#)
[🔄 Restore containers](#)
[🔧 Edit columns](#)

 Search containers by prefix

☐ Only show active containers

Showing all 2 items

☐	Name	Last modified	Anonymous access level	Lease state	
☐	 logs	3/12/2026, 9:00:45 PM	Private	Available	...
☐	 course materials	3/12/2026, 9:08:14 PM	Private	Available	...

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- Containers**
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- > Help

Add or remove favorites by pressing **Ctrl+Shift+F**

course-materials

Search

[+ Add Directory](#) [↑ Upload](#) [🔒 Change access level](#) [🔄 Refr](#)

 Overview

 Diagnose and solve problems

 Access Control (IAM)

> Settings

[course materials](#)

Authentication method: Access key (Switch to Microsoft Entra user acc

 Add filter

 Search blobs by prefix (case-sensitive)

Showing all 0 items

1

Name _____

Last modified

Access

No items found

Let $\tilde{h}_i$ be unique functions by putting $\tilde{h}_i(t) = h_i(t, \tilde{t} + t)$

Upload blob



2 file(s) selected: Azure Module 2.docx, Azure Module 1.pdf

Drag and drop files here or [Browse for files](#)

☐ Overwrite if files already exist

Advanced

Upload

 Give feedback

×

Access tier (i)

X

Settings

Only show active blobs

	Name	Last modified	Access tier	Blob type	Size	Lease state	
	 az-fundamentals						...
	 Azure Module 1...	3/12/2026, 9:14:53 PM	Hot (Inferred)	Block blob	30.25 KiB	Available	...
	 Azure Module 2...	3/12/2026, 9:14:52 PM	Hot (Inferred)	Block blob	7.14 KiB	Available	...

$$\Delta_{\text{eff}}^{\text{eff}} = \text{effective dimensionality of process } (2\pi i + \Delta_{\text{eff}} + \Delta_{\text{eff}})$$

Microsoft Azure

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

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Monitoring (classic)

Automation

Help

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Tag names are case insensitive, but tag values are case sensitive.[Learn more about tags.](#)

Do not enter names or values that could make your resources less secure or that contain personal/sensitive information because tag data will be replicated globally.

Name	Value	
Environment	Training	 
Department	Learning	 
Owner	TrainingHub team	 

Apply

Discard changes

Add or remove favorites by pressing Ctrl+Shift+F

Home » Storage center | Blob Storage » training55hub

training55hub | Locks

Storage account.

Can a resource locked for 'ReadOnly' be modified?	Can multiple users in my tenant manage my locks?	+1
---	--	----

X

loc

[+ Add](#) [🔒 Resource group](#) [🔒 Subscription](#) [🔄 Refresh](#) [🗨 Feedback](#)

- Overview
- Settings
- Endpoints
- Locks

Lock name	Lock type	Scope	Notes
protect training storage	Delete	 trainingSSH	 Edit  Delete

Let's do another derivation by proving $\neg(P \vee Q) \rightarrow \neg P \wedge \neg Q$

training55hub Storage account West Europe

Apply Cancel Clear all selections

Home » Resourcegroup » training55hub » Resourcegroup | Alerts

Create an alert rule ...

X

Scope	Condition	Actions	Details	Tags	Review + create
-------	-----------	---------	---------	------	-----------------

Create an alert rule to identify and address issues when important conditions are found in your monitoring data. [Learn more](#)

Scope level:   Subscription 

+ Select scope

Resource	Hierarchy
Resourcegroup	Azure subscrip...

Review + create Previous Next: Condition >

Transactions (Sum). training55hub 72

Create an alert rule ...

Scope	Condition	Actions	Details	Tags	Review +
-------	-----------	---------	---------	------	----------

An action group is a set of actions that can be applied to an alert rule

Select actions ☐ Use quick actions (pre)

☐ Use quick actions (predefined actions)
Select one or more of the following actions:

- Use action groups
- Add an existing action

☐ None

Action groups

Action group name

Net cardiac output (ml/min) was calculated by

Select action groups

Select action groups

×

Select up to five action groups to attach to this rule.

- + Create action group

Subscription

Azure subscription 1

Search

Action group name ↑↓

Resource group

Contains actions

Location

No results to display

Create action group

Basics Notifications Actions Tags Review + create

An action group invokes a defined set of notifications and actions when an alert is triggered. [Learn more](#)

Project details

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

Subscription ⓘ

Azure subscription 1

Resource group * ⓘ

(New) rg-azure-labs
[Create new](#)

Region *

Global

Instance details

Action group name *	email-verification	✓
Display name *	EN	✓

The display name is limited to 12 characters

Create action group

Basics **✕ Notifications** Actions Tags Review + create

Choose how to get notified when the action group is triggered. This step is optional.

Notification type 	Name 	Selected 
Email/SMS message... 	traininghub download spike	
Please configure the notification by clicking the edit button.		
		

Review • create

[Previous](#)

Next: Actions >

Email/SMS message/Push/Voice

Add or edit Email/SMS message/Push/Voice action

Email

Email *  samuelonyejekwe852@gmail.com 

☐ SMS (Carrier charges may apply)

Country code

1

Phone number

☐ Azure mobile app notification

Azure account email 

☐ Voice

Country code

1

Phone number

Enable the common alert schema. [Learn more](#)

Yes No

OK

Home

Create an alert rule

✕

Scope Condition **Actions** Details Tags Review + create

An action group is a set of actions that can be applied to an alert rule. [Learn more](#)

Select actions

- ☐ Use quick actions (preview)
Select one or more of the quick actions.
- ☒ Use action groups
Add an existing action group or create a new one.
- ☐ None

Action groups

Action group name	Contains actions	
email-verification	1 Email	✕
Manage action groups		

[Home](#)

Create an alert rule ...



Scope	Condition	Actions	Details	Tags	Review + create
-------	-----------	---------	---------	------	-----------------

Project details

Select the subscription and resource group in which to save the alert rule.

Subscription * ⓘ Azure subscription 1
Resource group * ⓘ Resourcegroup
[Create new](#)

Alert rule details

Severity * ⓘ

Alert rule name * ⓘ

Alert rule description ⓘ

▼ Advanced options

Review + create

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Next: Tags >

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 **training55hub | Locks**  

Can multiple users in my tenant manage my locks? How do locks prevent accidental deletion of Azure resources? +1



loc

 Add  Resource group  Subscription  Refresh  Feedback

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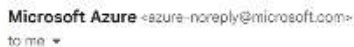
Lock name	Lock type	Scope	Notes
-----------	-----------	-------	-------

This resource has no locks.

Labels +

→

3

10:11PM (13 minutes ago) ☆ 😊 ↩ ⋮



You've been added to an Azure Monitor action group

You are now in the action group and will receive notifications sent to the group.

[View details on Azure Monitor action groups >](#)

Account information

Subscription ID:

Resource group name: rg-azure-labs

Action group name: email-verification

To unsubscribe from this action group, [click here](#).



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← Reply

➔ Forward

