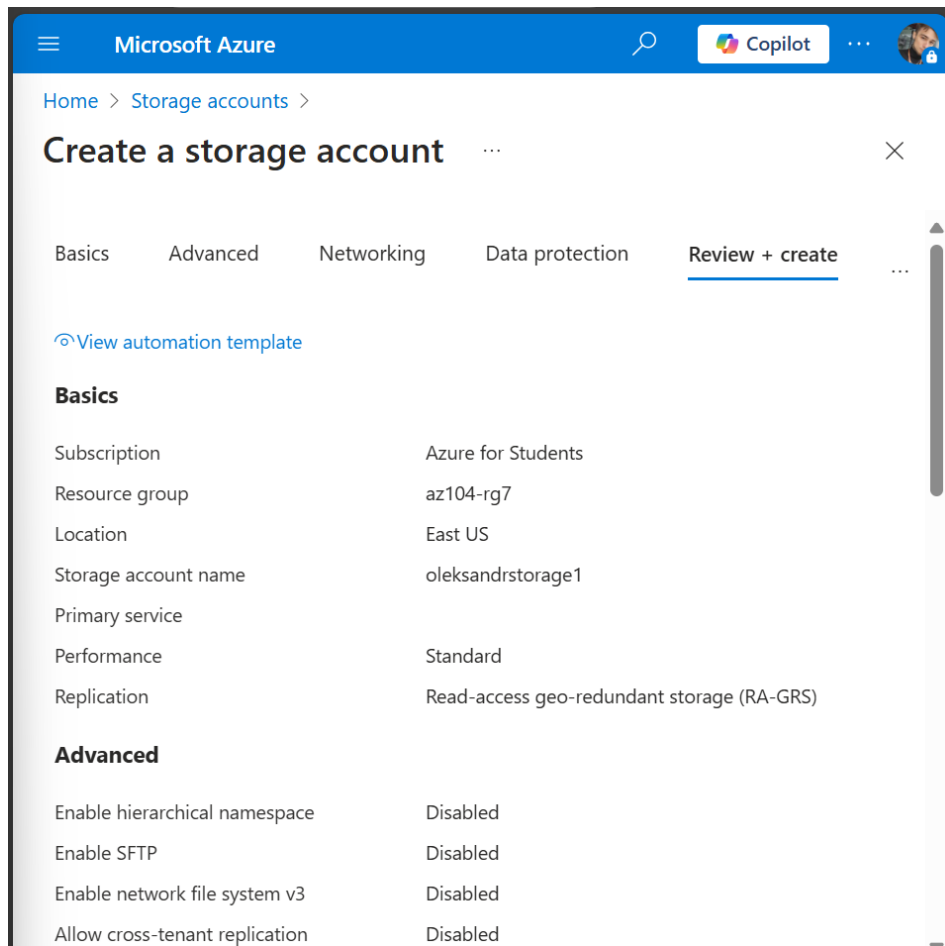


Lab 07: Manage Azure storage

Task 1: Create and configure a storage account.



The screenshot displays the 'Create a storage account' wizard in the Microsoft Azure portal. The interface is in the 'Review + create' step, which is highlighted with a blue underline. The wizard is divided into sections: 'Basics' and 'Advanced'. The 'Basics' section contains the following configuration details:

Property	Value
Subscription	Azure for Students
Resource group	az104-rg7
Location	East US
Storage account name	oleksandrstorage1
Primary service	
Performance	Standard
Replication	Read-access geo-redundant storage (RA-GRS)

The 'Advanced' section contains the following configuration details:

Property	Value
Enable hierarchical namespace	Disabled
Enable SFTP	Disabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled

At the top of the wizard, there are tabs for 'Basics', 'Advanced', 'Networking', 'Data protection', and 'Review + create'. A 'View automation template' link is also present. The top of the page shows the 'Microsoft Azure' header with a search icon, a 'Copilot' button, and a user profile icon.

Microsoft Azure

Copilot

Home > oleksandrstorage1_1742976874943 | Overview >

oleksandrstorage1

Storage account

Upload

Open in Explorer

Delete

Move

Refresh

Essentials

JSON View

Resource group (move)

az104-rg7

Location

eastus

Primary/Secondary Loc...

Primary: East US, Secondary: West US

Subscription (move)

Azure for Students

Subscription ID

16fcb738-3661-4bf0-8442-5f3f16e61ad0

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

3/26/2025, 10:15:00 AM

Tags (edit)

Add tags

Properties

Monitoring

Capabilities (7)

Recommendations (0)

Tutorials

Microsoft A.

Search resources, services, and docs (G+)

Copilot

Home > oleksandrstorage1

oleksandrstorage1 | Netw

Storage account

Search

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Public access

Private endpoints

Network routing

Resource settings saved

Resource settings have been saved successfully

Configure access to this storage account using Virtual Networks, IP address ranges, or a network security perimeter. [Learn more](#)

Associate a network security perimeter to secure public network access. [View recommendations](#)

Public network access ⓘ

Enabled from selected networks

Manage

Microsoft A. Search resources, services, and docs (G+/) Copilot

Home > oleksandrstorage1

oleksandrstorage1 | Lifecycle

Storage account

Search

- Storage Mover
- Partner solutions
- Resource visualizer
- > Data storage
- > Security + networking
- ▼ Data management
 - Storage tasks (preview)
 - Redundancy
 - Data protection
 - Object replication
 - Blob inventory

Successfully updated lifecycle management policy

Successfully updated lifecycle management policy for storage account 'oleksandrstorage1'.

Add a rule ✓ Enable ☐ Disable ...

Lifecycle management offers a rich, rule-based policy for general purpose v2 and blob storage accounts. Use the policy to transition your data to the appropriate access tiers or expire at the end of the data's lifecycle. A new or updated rule can take up to 24 hours to go into effect. [Learn more](#)

List View Code View

Enable access tracking ⓘ

☐

Name	Status	Blob type
Movetocool	Enabled	Block

Task 2: Create and configure secure blob storage.

Microsoft A. Search resources, services, and docs (G+/) Copilot

Home > oleksandrstorage1

oleksandrstorage1 | Containers

Storage account

Search

- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser

Successfully created storage container

Successfully created storage container 'data'.

+ Container Change access level ...

Search containers by prefix

☐ Show deleted containers

Name	Last modified	Anonymous
<input type="checkbox"/> \$logs	3/26/2025, 10:15:23 ...	Private
<input type="checkbox"/> data	3/26/2025, 10:21:59 ...	Private

Microsoft A. Search resources, services, and docs (G+/) Copilot

Home > oleksandrstorage1 | Containers > data

data

Save Give feedback

Successfully updated retention policy
Successfully updated retention policy for container 'data'.

Search

OverviewActivityTagsDiagnoseAccess ControlData migrationEventsStorage settingsStorage partnerResource managementData storage

Access policy

Stored access policies

+ Add policy

Identifier	Start time	Expiry time	Permissions
No results			

Immutable blob storage

User-defined policy applied to a container for retaining the data in all blobs in the container in a non-modifiable and delete-protected state. Choose one policy at a time. Retention policy changes may require some time to take effect. [Learn more about immutable blob storage](#)

+ Add policy

Identifier	Scope	Retention interval	State
Time-based retention	Container	180 days	Unlocked

Microsoft A. Search resources, services, and docs (G+/) Copilot

Home > oleksandrstorage1 | Containers > data

data

Container

Search

UploadChange access levelRefresh

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Authentication method: Access key (Switch to Microsoft Entra user account)

Location: data

Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

Name	Modified	Access ti
az104-lab07-arc...	3/26/2025, 10:24:39 ...	Hot (Infe

Microsoft A. Search resources, services, and docs (G+/) Copilot

Home > oleksandrstorage1 | Containers > data >

az104-lab07-architecture-diagram.png

Blob

Save Discard Download Refresh Delete

Permissions Read

Start and expiry date/time

Start

03/25/2025 10:25:24 AM

(UTC+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius

Expiry

03/27/2025 6:25:24 PM

(UTC+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius

Allowed IP addresses

for example, 168.1.5.65 or 168.1.5.65-168.1.5.65

Allowed protocols

☒ HTTPS only ☐ HTTPS and HTTP

Generate SAS token and URL

Blob SAS token

sp=r&st=2025-03-25T08:25:24Z&se=2025-03-27T16:25:24Z&spr=https&sv=2024-11-04&sr=b&si...

Blob SAS URL

https://oleksandrstorage1.blob.core.windows.net/data/az104-lab07-architecture-diagram.png?sp=...

Task 3: Create and configure secure Azure file storage.

Microsoft A. Search resources, services, and docs (G+/) Copilot

Home > oleksandrstorage1 | File shares >

New file share

Validation passed

Basics Backup Review + create

Basics

File share name	share1
Access Tier	TransactionOptimized
Protocol	SMB

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

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НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ ...

Home > oleksandrstorage1 | File shares >

share1

SMB File share

Search

Connect Upload Refresh Add directory Delete share Change tier Edit quota Give feedback

Overview

Diagnose and solve problems

Access Control (IAM)

Browse

Operations

Enable Backup for file share "share1" to protect your data. [Learn more](#)

Essentials

Storage account
oleksandrstorage1

Resource group (move)
az104-rg7

Location
East US

Primary/Secondary location
Primary: East US, Secondary: West US

Subscription (move)
[Azure for Students](#)

Subscription ID
16fcb738-3661-4bf0-8442-5f3f16e61ad0

Share URL
https://oleksandrstorage1.file.core.windows.net/share1

Redundancy
Geo-redundant storage (GRS)

Configuration modified
3/26/2025, 10:27:26 AM

JSON View

Microsoft A

Search resources, services, and docs (G+)

Copilot

...

Oleksandr Kozak

Home > oleksandrstorage1

oleksandrstorage1 | Storage browser

Storage account

Search

Upload Add directory Refresh

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

File shares > share1 > mydirectory

Authentication method: Access key
(Switch to Microsoft Entra user account)

Search files by prefix

Showing all 1 items

	Name	Type
	[..]	Directory
	az104-lab07-archite...	File

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

Copilot

Home > vnet1-1742977920122 | Overview >

vnet1

Virtual network

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Settings

Address space

Connected devices

Subnets

Bastion

DDoS protection

Firewall

Microsoft Defender for Cloud

Move

Delete

Refresh

Give feedback

Essentials

JSON View

Resource group (move)

az104-rg7

Location (move)

East US

Subscription (move)

Azure for Students

Subscription ID

16fcb738-3661-4bf0-8442-5f3f16e61ad0

Address space

10.0.0.0/16

DNS servers

Azure provided DNS service

BGP community string

Configure

Virtual network ID

7ca11ebc-47da-4f3b-b3ae-d71c2bb71bf6

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

Copilot

Home > vnet1-1742977920122 | Overview > vnet1 | Service endpoints

vnet1

Virtual network

Search

Settings

Address space

Connected devices

Subnets

Bastion

Updated virtual network

Successfully saved service endpoint 'Microsoft.Storage' for virtual network 'vnet1'

Add

Refresh

Filter service endpoints

Service	Subnet	Status
Microsoft.Storage	1	

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

Copilot

Home > Storage accounts > oleksandrstorage1 | Networking >

Resource Access Settings

PREVIEW

Virtual Networks

Allow select virtual networks to connect to your resource using service endpoints. [Learn more](#)

+ Add a virtual network

Virtual Network	Subnet	Address Range	Endpoint Status	Resource Group	S
vnet1	1	10.0.0.0/16		az104-rg7	A
	default		Enabled	az104-rg7	A

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

Copilot

Home > Storage accounts > oleksandrstorage1

oleksandrstorage1 | Storage browser

Storage account

Search

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Partner solutions

Resource visualizer

Data storage

Security + networking

Networking

Front Door and CDN

Access keys

This request is not authorized to perform this operation.

Summary

Session ID
cdc689f491cb4abba031ae8c647ebe42

Resource ID
/subscriptions/16fcb738-3661-4bf0-8...

Extension
Microsoft_Azure_Storage

Content
FilesBlade

Error code
403

Storage Request ID
3db537c1-d01a-008f-332a-9ec26d00...

Details

This request is not authorized to perform this operation. RequestId:3db537c1-d01a...