

# Azure Assignment

## (AZ – 104- Module 2)

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# Module 2

## Assignment 1

Create 2 resource groups rg-1 and rg-2

Create a resource group ...

Basics

Tags

Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Project details

Subscription \*

Azure Pass - Sponsorship (ab11f5e0-2bca-4991-880a-7ad65b479795)

Resource group \*

rg-1

Resource details

Region \*

(Asia Pacific) Central India

Create a resource group ...

Basics

Tags

Review + create

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Project details

Subscription \*

Azure Pass - Sponsorship (ab11f5e0-2bca-4991-880a-7ad65b479795)

Resource group \*

rg-2

Resource details

Region \*

(US) Central US

2.Add storage account to rg-1

# Create a storage account ...

Basics   Advanced   Networking   Data protection   Encryption   Tags   Review

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 \*

[Create new](#)

## Instance details

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

Storage account name ⓘ \*

Region ⓘ \*

Performance ⓘ \*  
☒ **Standard:** Recommended for most scenarios (general-purpose v2 account)  
☐ **Premium:** Recommended for scenarios that require low latency.

Redundancy ⓘ \*

[Review](#)

[< Previous](#)

[Next : Advanced >](#)

### 3. Move storage account from rg-1 to rg-2

The screenshot shows the Azure portal interface for a storage account named 'myrg1stgacc'. The left sidebar contains navigation links: Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, and Events. The main content area displays the 'Essentials' section with the following details:

- Resource group (move): rg-1
- Location: Central India
- Subscription (move): Azure Pass - Sponsorship
- Subscription ID: ab11f5e0-2bca-4991-880a-7ad65b479795
- Disk state: Available
- Tags (edit): Click here to add tags

The 'Move' dropdown menu is open, showing two options:

- Move to another subscription
- Move to another resource group

On the right side of the Essentials section, the following properties are listed:

- Performance: Standard
- Replication: Locally-redundant storage (LRS)
- Account kind: StorageV2 (general purpose v2)
- Provisioning state: Succeeded
- Created: 11/12/2022, 10:39:53 PM

## Assignment 2

### 1. Create 3 storage accounts with "Team" tags: team1, team2 and team3 respectively

#### Create a storage account

Basics Advanced Networking Data protection Encryption **Tags** Review

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. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name	Value	Resource
Team	team1	All resources selected
		All resources selected

#### Create a storage account

Basics Advanced Networking Data protection Encryption **Tags** Review

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically upd

Name	Value	Resource
Team	team2	All resources selected
		All resources selected

## Create a storage account ...

Basics   Advanced   Networking   Data protection   Encryption   Tags   Review

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. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name		Value		Resource
Team	▼	:	team3	▼
	▼	:		▼
	▼	:		▼

2. Create one more storage account for team2

3. List all resources for team2 using tags

demo-rg Resource group

Search

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Policies

Properties

Locks

Monitoring

Insights (preview)

Alerts

Metrics

Essentials

Subscription (move) : [Azure Pass - Sponsorship](#)

Subscription ID : ab11f5e0-2bca-4991-880a-7ad65b479795

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

Deployments : [3 Succeeded](#)

Location : Central US

Resources Recommendations

Filter for any field...

Type equals all

Location equals all

Add filter

Showing 1 to 3 of 3 records. ☐ Show hidden types

☐ Name ↑↓

☐ my2ndstgacc

☐ my3rdstgcca

☐ team1stgacc

Add filter

Filter Team

Operator Equals

Value team2

Apply Cancel

ing

List view

location ↑↓

Central India

Central India

Central US

## Assignment 3

### 1. Create a File share in Azure Storage

team1stgacc | File shares

Storage account

Search

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Data storage

Containers

File shares

Queues

Tables

Security + networking

Networking

Azure CDN

Access keys

Shared access signature

Encryption

Microsoft Defender for Cloud

Data management

Redundancy

Data protection

+ File share

Refresh

File share settings

Active Directory: Not configured

Default share-level permissions: Disabled

Soft delete: 7 days

Maximum capacity: 5 TiB

Search file shares by prefix (case-sensitive)

Name	Modified
You don't have any file shares yet. Click '+ File share' to get started.	

New file share

Name \*  
data

Tier ⓘ  
Transaction optimized

Performance

Maximum IO/s ⓘ	1000
Egress Rate ⓘ	60 MiB / s
Ingress Rate ⓘ	60 MiB / s
Maximum capacity	5 TiB
Large file shares	Disabled

You can improve performance and maximum share capacity by enabling large file shares for this storage account. [Learn more](#)

To use the SMB protocol with this share, check if you can communicate over port 445. These scripts for [Windows clients](#) and [Linux clients](#) can help. Learn how to [circumvent port 445 issues](#).

CreateCancel

2. Mount this file share on windows and linux

Home > Storage accounts > team1stgacc | File shares >

data

File share

Search

Connect Upload Add directory Refresh Delete share Change tier Edit quota

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Properties

Operations

Snapshots

Backup

Search files by prefix

Name	Type
No files found.	

Connect

data

Drive letter

Z

Authentication method

☐ Active Directory
 ☒ Storage account key

Connecting to a share using the storage account key is only appropriate for admin access. Mounting the Azure file share with the Active Directory identity of the user is preferred. [Learn more](#)

Hide Script

```

$connectTestResult = Test-NetConnection -ComputerName
team1stgacc.file.core.windows.net -Port 445
if ($connectTestResult.TcpTestSucceeded) {
    # Save the password so the drive will persist on reboot
    cmd.exe /C "cmdkey /add:"team1stgacc.file.core.windows.net"
    /user:"localhost\team1stgacc"
    /pass:"7JrsySry+rkDYV+6WMa4xxSqM7Ky7Im9+Y0P0eqjAseZpLSxTriPe7wl2nZiQ4UF
    F1N8lKaOE31v+ASTiXoUA=="
    # Mount the drive
    New-PSDrive -Name Z -PSProvider FileSystem -Root
    "\\team1stgacc.file.core.windows.net\data" -Persist
} else {
    Write-Error -Message "Unable to reach the Azure storage account via port 445.
    Check to make sure your organization or ISP is not blocking port 445, or use Azure
    P2S VPN, Azure S2S VPN, or Express Route to tunnel SMB traffic over a different
    port."
}
          
```

Copied

This script will check to see if this storage account is accessible via TCP port 445, which is the port SMB uses. If port 445 is available, your Azure file share will be persistently mounted. Your organization or internet service provider (ISP) may block port 445, however.

## Assignment 4

### 1. Create a Storage account, and upload some files in Blob storage

Home > Storage accounts > my2ndstgacc | Containers >

mycontainer

Container

Search

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

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

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

Location: mycontainer

Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
<input type="checkbox"/> AZ104_Module-6.pdf	11/12/2022, 11:18:22 PM	Hot (Inferred)		Block blob	2.03 MiB	Available ***
<input type="checkbox"/> AZ104_Module-9.pdf	11/12/2022, 11:18:23 PM	Hot (Inferred)		Block blob	1.3 MiB	Available ***

### 2. Create a CDN profile



Home > Subscriptions > Azure Pass - Sponsorship

## Subscriptions

Default Directory (amitsinhaazuremail.onmicroso...

+ Add Manage Policies ...

Search... Subscriptions == global filter

My role == all

Status == all

+ Add filter

Subscription name ↑↓

- Azure Pass - Sponsorship ...
- Azure Pass - Sponsorship ...

### Azure Pass - Sponsorship | Resource providers

Subscription

Reso x « Register Unregister Refresh Feedback

cdn

Provider	Status
Microsoft.Cdn	registered

Settings

- Resource groups
- Resources
- Preview features
- Policies
- Resource providers
- Resource locks

3. Create an endpoint and connect to the Azure blob to access the files uploaded

## Assignment 5

1. Create a storage account

2. Use the blob service and upload some files in it

Home > Storage accounts > team1stgacc | Containers >

## mycontainer

Container

Search « Upload Change access level Refresh Delete Change tier Acquire lease Break lease View snapshots Create snapshot

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

Location: mycontainer

Search blobs by prefix (case-sensitive) Show details

+ Add filter

Name	Modified	Access tier	Archive status	Blob type
<input type="checkbox"/> AZ104_Module-1.pdf	11/12/2022, 11:06:13 PM	Hot (Inferred)		Block blob
<input type="checkbox"/> AZ104_Module-2.pdf	11/12/2022, 11:05:51 PM	Hot (Inferred)		Block blob

### Upload blob

mycontainer/

Files

Select a file

☐ Overwrite if files already exist

Advanced

Upload

Current uploads

Dismiss: Completed All

AZ104_Module-2.pdf	2 MiB / 2 MiB	...
AZ104_Module-1.pdf	2 MiB / 2 MiB	...

3. Change the access tier to archive

mycontainer  
Container

Search

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

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

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

Search blobs by prefix (case-sensitive)

Add filter

Name	Modified	Access tier	Archive status	Blob
<input checked="" type="checkbox"/> AZ104_Module-1.pdf	11/12/2022, 11:06:13 PM	Hot (Inferred)		Block blob
<input type="checkbox"/> AZ104_Module-2.pdf	11/12/2022, 11:05:51 PM	Hot (Inferred)		Block blob

Change tier

AZ104\_Module-1.pdf

Optimize storage costs by placing your data in the appropriate access tier. [Learn more](#)

Access tier

Archive

Setting the access tier to "Archive" will make your blob inaccessible until it is rehydrated back to "Hot" or "Cool", which may take several hours.

mycontainer  
Container

Search

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

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

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

Search blobs by prefix (case-sensitive)

Add filter

Show deleted blobs

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
<input type="checkbox"/> AZ104_Module-1.pdf	11/12/2022, 11:06:13 PM	Archive		Block blob	2.35 MiB	Available ***
<input type="checkbox"/> AZ104_Module-2.pdf	11/12/2022, 11:05:51 PM	Hot (Inferred)		Block blob	2.19 MiB	Available ***