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Problem Statement:

Create a Static website using Azure Storage Service with help of required Parameters Static website must contain HTML Content it includes: Table data consisting of 100 Employees. Data Like: Name of the Employee, City, Phone Number (Assume any data and Create a Table) Table borders should be thick Note: Static website service should be enabled

Hosting a Static Website Using Azure Storage Service



AZURE STORAGE SERVICE

Azure Storage Service provides scalable and durable cloud storage, offering a range of services like blobs, files, queues, and tables. This report details the step-by-step process to create and host a static website using Azure Storage Service. The static website will display a table of 100 employees with their names, cities, and phone numbers.

Step 1: Setting Up Azure Storage Account

- ❖ Log in to Azure Portal
- ❖ Create a Storage Account
- ❖ Selecting the Required Parameters:
 - Selecting Subscription (Used Concierge Subscription)
 - Creating/ Using Resource Group (Used Default Resource Group)
 - Providing Storage Account Name (Used **academor06june**)
 - Region: East US
 - Performance: **Standard**
 - Redundancy: **Locally-redundant Storage (LRS)**

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- ❖ Blob Access Tier: **Hot**
- ❖ Network:
 - Network Access: **Public Access** from all Networks
 - Routing: Microsoft Network Routing
- ❖ Data Protection (Default):
 - Enabled Soft Delete for blobs
 - Enabled Soft Delete for Containers
 - Enabled Soft Delete for File Shares
- ❖ Encryption (Default):
 - Encryption type: **Microsoft-managed keys (MMK)**
 - Customer-Managed Keys: Blobs and Files Only
- ❖ Review + Create

Step 2: Enable Static Website Hosting

- ❖ Navigate to Storage Account
- ❖ Click on Static Website Under Data Management Section
- ❖ Enable Static Website
- ❖ Save and get EndPoint

Step 3: Upload Files

- ❖ Go to Blob Service
 - In container **\$web** (Created Automatically when Static Website Hosting is Enabled.)
- ❖ Uploading the files
 - Index.html
 - styles.css
 - scripts.js
 - error.html

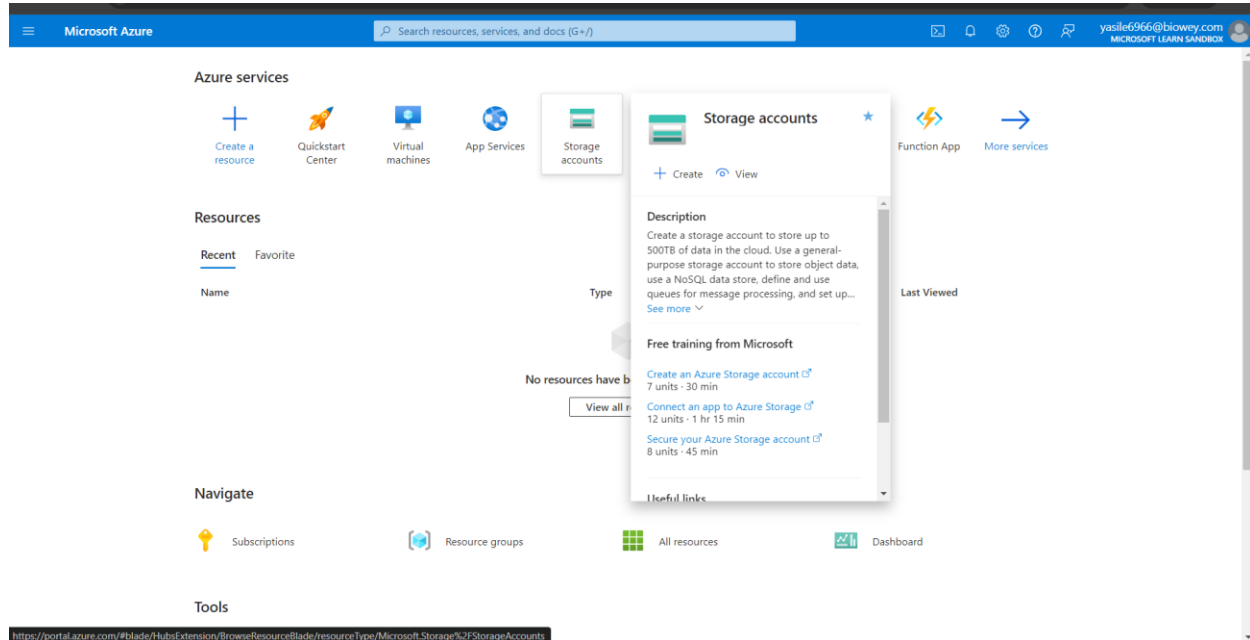
Step 3: Accessing Hosted Website

- ❖ Using Endpoint we can Access the Hosted Static Website
- 🚦 **Endpoint:** <https://academor06june.z13.web.core.windows.net/>
- 🚦 **Endpoint:** [https://karthikeya-mittapalli.github.io/Academor-Cloud Computing/StaticWebsiteHosting/](https://karthikeya-mittapalli.github.io/Academor-Cloud%20Computing/StaticWebsiteHosting/)
- ❖ **Note:** Use GitHub link (because of some issue first link may not work.)

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Procedure:

Creating Storage Account:



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Create a storage account

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 *

Resource group * [Create new](#)

Instance details

Storage account name *

Region * [Deploy to an Azure Extended Zone](#)

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

Redundancy *

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Create a storage account

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Security
Configure security settings that impact your storage account.

Require secure transfer for REST API operations

Allow enabling anonymous access on individual containers

Enable storage account key access

Default to Microsoft Entra authorization in the Azure portal

Minimum TLS version

Permitted scope for copy operations (preview)

Version 1.2

From any storage account

Hierarchical Namespace
Hierarchical namespace, complemented by Data Lake Storage Gen2 endpoint, enables file and directory semantics, accelerates big data analytics workloads, and enables access control lists (ACLs) [Learn more](#)

Enable hierarchical namespace

Access protocols

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Enable hierarchical namespace

Access protocols
Blob and Data Lake Gen2 endpoints are provisioned by default [Learn more](#)

Enable SFTP

Enable network file system v3

SFTP can only be enabled for hierarchical namespace accounts

To enable NFS v3 'hierarchical namespace' must be enabled. [Learn more about NFS v3](#)

Blob storage

Allow cross-tenant replication

Access tier

Hot: Optimized for frequently accessed data and everyday usage scenarios

Cool: Optimized for infrequently accessed data and backup scenarios

Azure Files

Enable large file shares

SMB Multichannel is now enabled by default on the Portal to boost performance with no additional cost. You can disable Multichannel after creating the storage account. [Learn more](#)

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private endpoint.

Network access *

☒ Enable public access from all networks

☐ Enable public access from selected virtual networks and IP addresses

☐ Disable public access and use private access

!

Enabling public access from all networks might make this resource available publicly. Unless public access is required, we recommend using a more restricted access type. [Learn more](#)

IP Addresses

Allow select public internet IP addresses to access your resource.

+ Add your client IP address ("27.59.62.47")

Network routing

Determine how to route your traffic as it travels from the source to its Azure endpoint. Microsoft network routing is recommended for most customers.

Routing preference *

☒ Microsoft network routing

☐ Internet routing

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Recovery

Protect your data from accidental or erroneous deletion or modification.

☐ Enable point-in-time restore for containers

Use point-in-time restore to restore one or more containers to an earlier state. If point-in-time restore is enabled, then versioning, change feed, and blob soft delete must also be enabled. [Learn more](#)

☒ Enable soft delete for blobs

Soft delete enables you to recover blobs that were previously marked for deletion, including blobs that were overwritten. [Learn more](#)

Days to retain deleted blobs

☒ Enable soft delete for containers

Soft delete enables you to recover containers that were previously marked for deletion. [Learn more](#)

Days to retain deleted containers

☒ Enable soft delete for file shares

Soft delete enables you to recover file shares that were previously marked for deletion. [Learn more](#)

Days to retain deleted file shares

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Encryption type *

☒ Microsoft-managed keys (MMK)

☐ Customer-managed keys (CMK)

Enable support for customer-managed keys

☒ Blobs and files only

☐ All service types (blobs, files, tables, and queues)

This option cannot be changed after this storage account is created.

Enable infrastructure encryption

☐

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View automation template

Basics

Subscription	Concierge Subscription
Resource group	learn-67d12078-ac45-464a-a5f6-7cf74c66c54b
Location	East US
Storage account name	academor06june
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
Enable large file shares	Enabled

Security

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Create a storage account ...

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 (preview)	From any storage account

Networking

Network connectivity	Public endpoint (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

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Deployment

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Deployment is in progress

Deployment name: academor06june_1722779621176

Subscription: Conclerge Subscription

Resource group: learn-67d12078-ac45-464a-a5f6-7cf74c66c54b

Start time: 04/08/2024, 19:25:11

Correlation ID: b16446e2-ec5c-41fa-9043-ff4dd78f47ce

Deployment details

Resource	Type	Status	Operation details
No results.			

Give feedback

Tell us about your experience with deployment

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✓ Your deployment is complete

Deployment name: academor06june_1722779621176

Subscription: Concierge Subscription

Resource group: learn-67d12078-ac45-464a-a5f6-7c74c66c54b

Start time: 04/08/2024, 19:25:11

Correlation ID: b16446e2-ec5c-41fa-9043-ff4dd78f47ce

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Deployment succeeded

Deployment 'academor06june_1722779621176' to resource group 'learn-67d12078-ac45-464a-a5f6-7c74c66c54b' 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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NFS v3

Allow cross-tenant replication

Storage tasks assignments

Require secure transfer for REST API operations

Storage account key access

Minimum TLS version

Infrastructure encryption

Allow access from

Number of private endpoint connections

Network routing

Access for trusted Microsoft services

Disabled

Hot

Disabled

Enabled (7 days)

Enabled (7 days)

Disabled

Disabled

Disabled

Disabled

None

Standard

Locally-redundant storage (LRS)

StorageV2 (general purpose v2)

Succeeded

04/08/2024, 19:25:19

Enabled

Enabled

Version 1.2

Disabled

All networks

0

Microsoft network routing

Yes

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Enabling Static Website:

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Enabling static websites on the blob service allows you to host static content. Webpages may include static content and client-side scripts. Server-side scripting is not supported. As data is replicated asynchronously from primary to secondary regions, files at the secondary endpoint may not be immediately available or in sync with files at the primary endpoint. [Learn more](#)

Static website

Disabled Enabled

Improve the page load time of your static website by using the caching features of Azure Front Door (Additional costs apply). [Azure Front Door](#)

Index document name

index.html

Error document path

error.html

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Help

Enabling static websites on the blob service allows you to host static content. Webpages may include static content and client-side scripts. Server-side scripting is not supported. As data is replicated asynchronously from primary to secondary regions, files at the secondary endpoint may not be immediately available or in sync with files at the primary endpoint. [Learn more](#)

Static website

Disabled Enabled

An Azure Storage container has been created to host your static website. [View](#)

Improve the page load time of your static website by using the caching features of Azure Front Door (Additional costs apply). [Azure Front Door](#)

Primary endpoint

https://academor06june.z13.web.core.windows.net/

Index document name

index.html

Error document path

error.html

Successfully updated static website settings

Successfully updated static website settings for 'academor06june'. Settings may take up to 30 seconds to take effect.

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Upload Website Files into \$web Container:

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+ Add container

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Refresh

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Change access level

Restore containers

Edit columns

Blob containers

Search containers by prefix

Only show active containers

Showing all 2 items

<input type="checkbox"/>	Name	Last modified	Anonymous access level	Lease state
<input type="checkbox"/>	\$logs	04/08/2024, 19:25:43	Private	Available
<input type="checkbox"/>	\$web	04/08/2024, 19:28:43	Private	Available

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\$logs

\$web

View all

File shares

Queues

Tables

+ Add Directory

Upload

Change access level

...

Blob containers > \$web

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

Add filter

Search blobs by prefix (case-sensitive)

Only show active blobs

Showing all 4 items

<input type="checkbox"/>	Name	Last modified	Access tier	Blob type	Size	Lease state
<input type="checkbox"/>	error.html	04/08/2024, 19:34:16	Hot (Inferred)	Block blob	138 B	Available
<input type="checkbox"/>	index.html	04/08/2024, 19:31:23	Hot (Inferred)	Block blob	10.19 KiB	Available
<input type="checkbox"/>	scripts.js	04/08/2024, 19:31:34	Hot (Inferred)	Block blob	1.78 KiB	Available
<input type="checkbox"/>	styles.css	04/08/2024, 19:31:43	Hot (Inferred)	Block blob	796 B	Available

Successfully uploaded blob(s)
Successfully uploaded 1 blob(s).

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Deployment:



Employee Data

S.NO	Name	City	Phone Number
1	John Doe	New York	123-456-7890
2	Jane Smith	Los Angeles	234-567-8901
3	Bob Johnson	Chicago	345-678-9012
4	Alice Brown	Houston	456-789-0123
5	Charlie Davis	Phoenix	567-890-1234
6	Eva Wilson	Philadelphia	678-901-2345
7	George Clark	San Antonio	789-012-3456
8	Hannah Lewis	San Diego	890-123-4567
9	Ivy Walker	Dallas	901-234-5678
10	Jack Hall	San Jose	012-345-6789

Next



Employee Data

S.NO	Name	City	Phone Number
21	Uma Stewart	Boston	123-456-7890
22	Victor Bailey	El Paso	234-567-8901
23	Wendy Rivera	Detroit	345-678-9012
24	Xander Brooks	Nashville	456-789-0123
25	Yara Reed	Memphis	567-890-1234
26	Zack Howard	Louisville	678-901-2345
27	Aaron Barnes	Baltimore	789-012-3456
28	Bella Ross	Milwaukee	890-123-4567
29	Chris Price	Albuquerque	901-234-5678
30	Daisy Foster	Tucson	012-345-6789

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Employee Data

S.NO	Name	City	Phone Number
91	Max Hughes	Lincoln	567-890-1234
92	Nina Ramos	Orlando	678-901-2345
93	Oscar McCoy	Durham	789-012-3456
94	Penny Butler	Plano	890-123-4567
95	Quentin Bell	Anchorage	901-234-5678
96	Rose Foster	Chandler	012-345-6789
97	Steve Henderson	Madison	123-456-7890
98	Tina Rogers	Reno	234-567-8901
99	Uma Flores	Scottsdale	345-678-9012
100	Victor Sanders	Glendale	456-789-0123

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Error Page:



Error!!!.... Page Not Found

THANK YOU