

Full Stack Blockchain Final Exam - Question 2

Microsoft Azure

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Home > Storage accounts >

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 * ▼ Azure for Students

Resource group * ▼ fullstack
[Create new](#)

Instance details

Storage account name * ⓘ storeblobsavvy

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

Primary service ⓘ ▼ Select a primary service

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

Redundancy * ⓘ ▼ Locally-redundant storage (LRS)

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Home >

storeblobsavvy_1752890339972 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: storeblobsavvy_1752890339972

Subscription: [Azure for Students](#)

Resource group: [fullstack](#)

Deployment details

Next steps

Go to resource

Give feedback

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Cost Management

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Secure your apps and infrastructure
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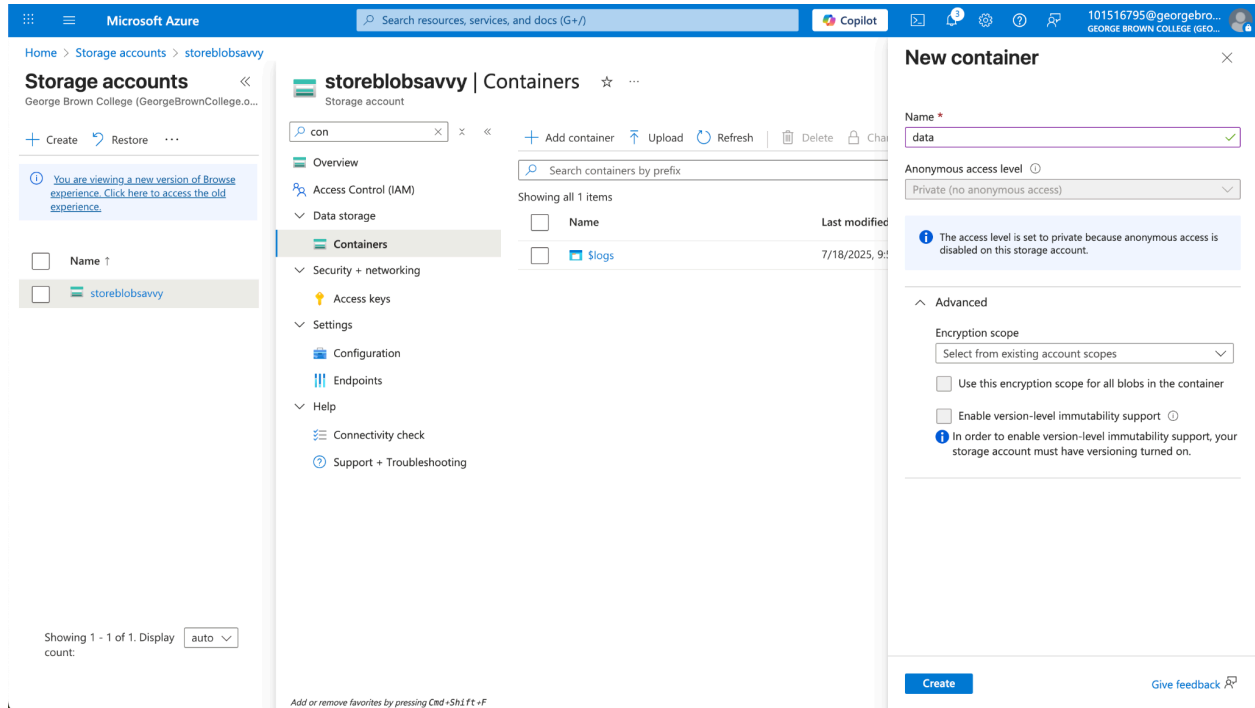
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Home > Storage accounts > storeblobsavvy

Storage accounts
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+ Create > Restore ...

You are viewing a new version of Browse experience. Click here to access the old experience.

Showing 1 - 1 of 1. Display count: auto

storeblobsavvy | Containers

Storage account

con

+ Add container > Upload > Refresh > Delete > Cha...

Search containers by prefix

Showing all 1 items

Name	Last modified
data	7/18/2025, 9:...

New container

Name * data

Anonymous access level ⓘ
Private (no anonymous access)

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

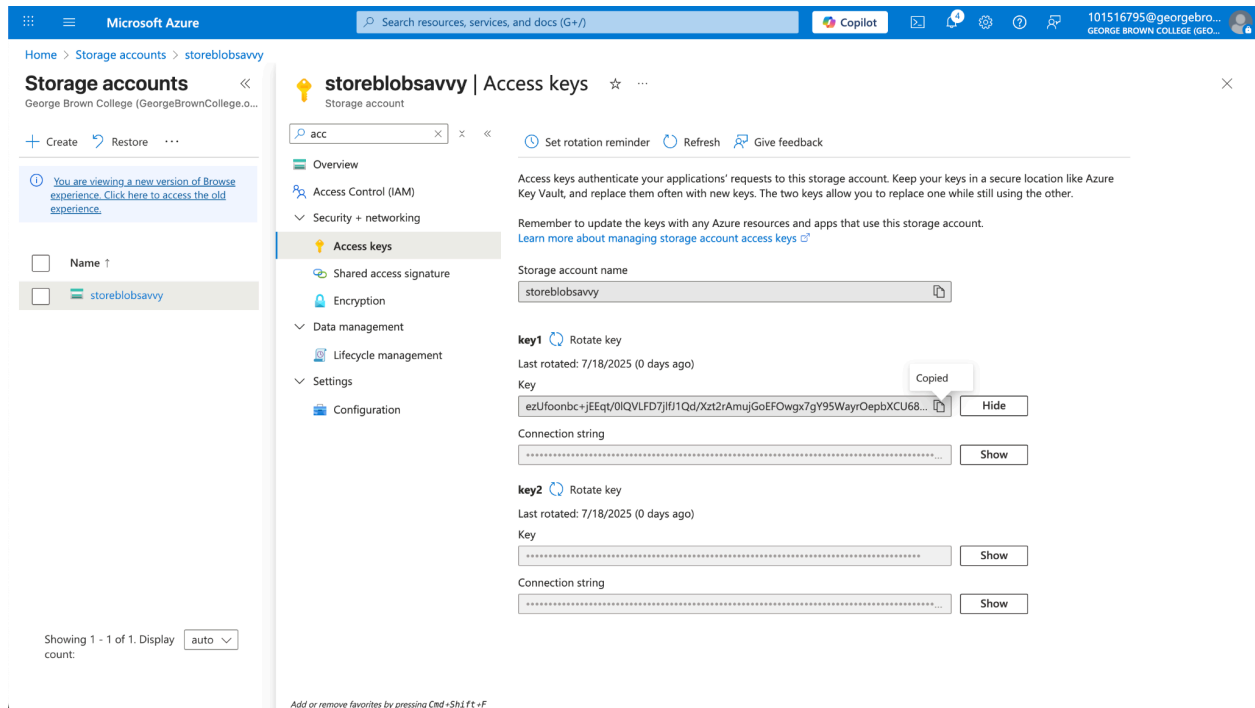
Advanced

Encryption scope
Select from existing account scopes

☐ Use this encryption scope for all blobs in the container

☐ Enable version-level immutability support ⓘ
In order to enable version-level immutability support, your storage account must have versioning turned on.

Create Give feedback



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Home > Storage accounts > storeblobsavvy

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+ Create > Restore ...

You are viewing a new version of Browse experience. Click here to access the old experience.

Showing 1 - 1 of 1. Display count: auto

storeblobsavvy | Access keys

Storage account

acc

Set rotation reminder > Refresh > Give feedback

Overview

Access Control (IAM)

Security + networking

Access keys

Shared access signature

Encryption

Data management

Lifecycle management

Settings

Configuration

Access keys authenticate your applications' requests to this storage account. Keep your keys in a secure location like Azure Key Vault, and replace them often with new keys. The two keys allow you to replace one while still using the other.

Remember to update the keys with any Azure resources and apps that use this storage account.
[Learn more about managing storage account access keys](#)

Storage account name
storeblobsavvy

key1 Rotate key
Last rotated: 7/18/2025 (0 days ago)
Key
ezUfoonbc+jEEq70IQVLF7j1J1Qd/Xzt2rAmujGoEF0wgx7gY95WayrOepbXCU68...
Connection string
Show

key2 Rotate key
Last rotated: 7/18/2025 (0 days ago)
Key
Show
Connection string
Show

```
(base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % kubectl create secret generic azure-secret \
  --from-literal=azurestorageaccountname=storeblobsavvy \
  --from-literal=azurestorageaccountkey=ezUfoonbc+jEEqt/01QVLFD7jlfJ1Qd/Xzt2rAmujGoEF0wgx7gY95Wayr0epbXCU68YUoMHHT2E+ASStcExULg==
secret/azure-secret created
```

```
secret/azure-secret created
(base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % touch blob-pv.yaml
(base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % nano blob-pv.yaml
(base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % cat blob-pv.yaml
apiVersion: v1
kind: PersistentVolume
metadata:
  name: blob-pv
spec:
  capacity:
    storage: 5Gi
  accessModes:
    - ReadWriteMany
  persistentVolumeReclaimPolicy: Retain
  csi:
    driver: blob.csi.azure.com
    volumeHandle: blob-pv-handle
    readOnly: false
    volumeAttributes:
      containerName: data
      storageAccount: storeblobsavvy
    nodeStageSecretRef:
      name: azure-secret
      namespace: default

(base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % touch blob-pvc.yaml
(base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % nano blob-pvc.yaml
(base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % cat blob-pvc.yaml
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: blob-pvc
spec:
  accessModes:
    - ReadWriteMany
  resources:
    requests:
      storage: 5Gi

(base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % kubectl apply -f blob-pv.yaml
persistentvolume/blob-pv created
(base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % kubectl apply -f blob-pvc.yaml
persistentvolumeclaim/blob-pvc created
```

```
(base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % kubectl apply -f blob-pv.yaml
persistentvolume/blob-pv created
(base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % kubectl apply -f blob-pvc.yaml
persistentvolumeclaim/blob-pvc created
```

```
(base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % kubectl get pv,pvc
NAME                                CAPACITY  ACCESS MODES  RECLAIM POLICY  STATUS  CLAIM                STORAGECLASS  VOLUMEATTRIBUTESCLASS
persistentvolume/blob-pv           5Gi       RWX           Retain          Bound   default/blob-pvc       

NAME                                STATUS    VOLUME         CAPACITY  ACCESS MODES  STORAGECLASS  VOLUMEATTRIBUTESCLASS  AGE
persistentvolumeclaim/blob-pvc     Bound     blob-pv        5Gi       RWX             

```

```
((base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % kubectl apply -f modified-store-front.yaml
deployment.apps/store-front configured
((base) aristotle@Aristotles-MacBook-Air-3 aks-store-demo % kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
makeline-service-6c8ffb5857-nmvdK  1/1     Running   0           70m
mongodb-0                           1/1     Running   0           70m
order-service-5c85f45984-2wfpG     1/1     Running   0           70m
product-service-5b8794b597-8pqm7   1/1     Running   0           70m
rabbitmq-0                          1/1     Running   0           70m
store-front-6ff78d4f79-456qp       1/1     Running   0           67m
store-front-6ff78d4f79-bl9cz       1/1     Running   0           63m
store-front-6ff78d4f79-btvxp       1/1     Running   0           61m
store-front-6ff78d4f79-fsrrx       1/1     Running   0           65m
virtual-customer-f5d4cd9f7-hpq7z   1/1     Running   0           70m
virtual-worker-865bcd78f-mbhr8     1/1     Running   0           70m
```