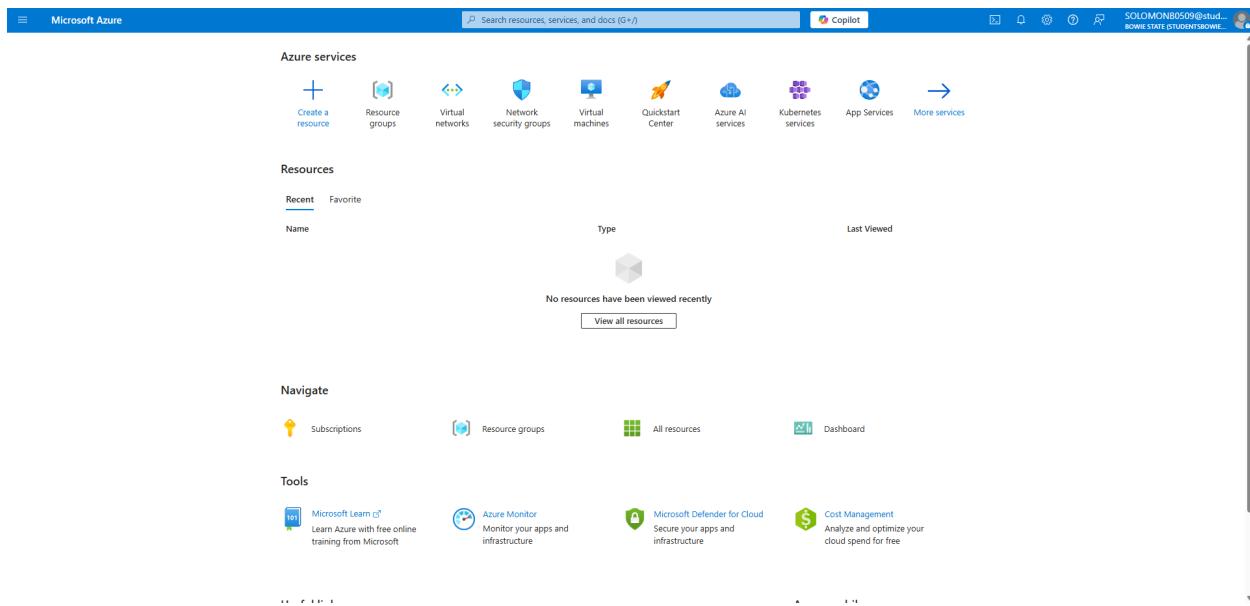


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5/7/25  
Professor Francis  
CTEC 475

## Capstone Module 7

1. Depending on the platform used, create one role or policy that provides read-only access to a popular file system storage service in that platform. For example, you might choose EFS or FSx in AWS. Take a screenshot of the configurations that ensure this access is enabled and all other access is blocked; submit this visual with your answers to this project's questions.



The screenshot shows the Microsoft Azure portal homepage. At the top, there is a search bar and a Copilot button. The main navigation area includes links for 'Create a resource', 'Resource groups', 'Virtual networks', 'Network security groups', 'Virtual machines', 'Quickstart Center', 'Azure AI services', 'Kubernetes services', 'App Services', and 'More services'. Below this is a section titled 'Resources' with tabs for 'Recent' (which is selected) and 'Favorite'. It features a search bar for 'Name', a filter for 'type', and a 'Last Viewed' section. A message states 'No resources have been viewed recently.' with a 'View all resources' button. Further down are sections for 'Navigate' (with links to 'Subscriptions', 'Resource groups', 'All resources', and 'Dashboard') and 'Tools' (with links to 'Microsoft Learn', 'Azure Monitor', 'Microsoft Defender for Cloud', and 'Cost Management').

2. Create one role or policy that provides full access to the same storage service and full access to the cloud platform's most popular relational database service; for example, that would be RDS or Aurora in AWS. Take a screenshot of the configurations that ensure this access is enabled and all other access is blocked; submit this visual with your answers to this project's questions.

Microsoft Azure

Storage accounts

Bowie State (studentsbowiestate.onmicrosoft.com)

+ Create ⚡ Restore 🌐 Manage view ⏪ Refresh ⏮ Export to CSV 📈 Open query ⏷ Assign tags 🗑 Delete

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

No grouping List view

Showing 0 to 0 of 0 records.

Name ↑ Type ↑ Kind ↑ Resource group ↑ Location ↑ Subscription ↑

No storage accounts to display

Create a storage account to store up to 50TB 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 storage account Learn more ⓘ

Microsoft Azure

Home > Storage accounts >

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 for Students

Resource group: (New) Storage [Create new](#)

Instance details

Storage account name: brandonsolomon

Region: (US) East US [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: Geo-redundant storage (GRS)  Make read access to data available in the event of regional unavailability.

Previous Next Review + create

Give feedback

**Create a custom role**

**Basics**

- Role name: ReadOnlyFileShare
- Role description: No role description provided

**Permissions**

- Action: Microsoft.Storage/storageAccounts/fileServices/shares/read

**Assignable Scopes**

- Scope: /subscriptions/090f47b7-a8e7-44f5-a691-ac73987dc0a9

**Add role assignment**

**Role**

- Role: ReadOnlyFileShare
- Scope: /subscriptions/090f47b7-a8e7-44f5-a691-ac73987dc0a9/resourceGroups/Storage/providers/Microsoft.Storage/storageAccounts/brandensolomon

**Members**

Name	Object ID	Type
_VMware_Conv_SA_	95f7bf00-1d35-49cb-8187-593dc1ddf93f	User
_VMware_Converter_	da67cef2-74f0-46b3-bc63-056e3d9f162	User

**Description**

- No description

3. Create two VMs: one with read-only access to storage buckets and one with full access to both storage buckets and VMs. Take a screenshot of the configurations that ensure this access is enabled and all other access is blocked; submit this visual with your answers to this project's questions.

Microsoft Azure

Compute infrastructure | Virtual machines > read-onlystorageaccess

Virtual machines

Search: identi

Virtual machine

read-onlystorageaccess | Identity

System assigned User assigned

A system assigned managed identity is restricted to one per resource and is tied to the lifecycle of this resource. You can grant permissions to the managed identity by using Azure role-based access control (Azure RBAC). The managed identity is authenticated with Microsoft Entra ID, so you don't have to store any credentials in code.

identity

Name: identi

Help Support + Troubleshooting

Status: On

Object (principal) ID: 29f45868-5801-4ee0-a5b2-dfbf5a581bd7

Copy to clipboard

Permissions: Azure role assignments

This resource is registered with Microsoft Entra ID. The managed identity can be configured to allow access to other resources. Be careful when making changes to the access settings for the managed identity because it can result in failures. [Learn more](#)

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

Page 1 of 1

Microsoft Azure

Home > fullaccesstostorageandvms

fullaccesstostorageandvms | Identity

Virtual machine

Search: System assigned

Virtual machine

fullaccesstostorageandvms | Identity

System assigned User assigned

A system assigned managed identity is restricted to one per resource and is tied to the lifecycle of this resource. You can grant permissions to the managed identity by using Azure role-based access control (Azure RBAC). The managed identity is authenticated with Microsoft Entra ID, so you don't have to store any credentials in code.

Status: On

Object (principal) ID: 824ecc0d-2a96-4cc2-a855-0d47bc385ec

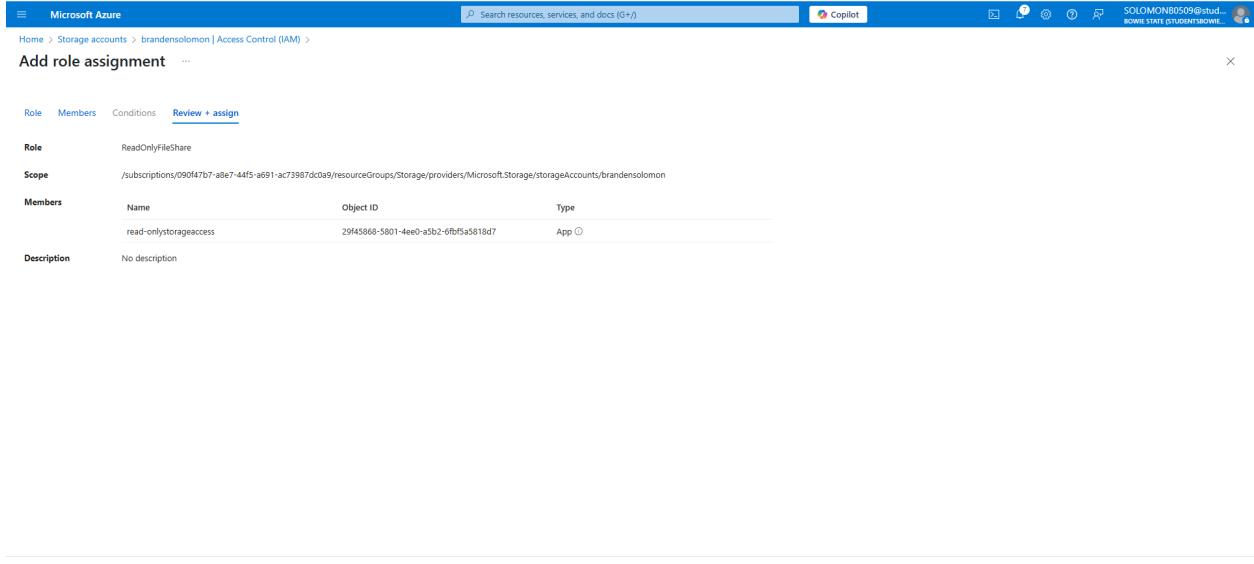
Permissions: Azure role assignments

This resource is registered with Microsoft Entra ID. The managed identity can be configured to allow access to other resources. Be careful when making changes to the access settings for the managed identity because it can result in failures. [Learn more](#)

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

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

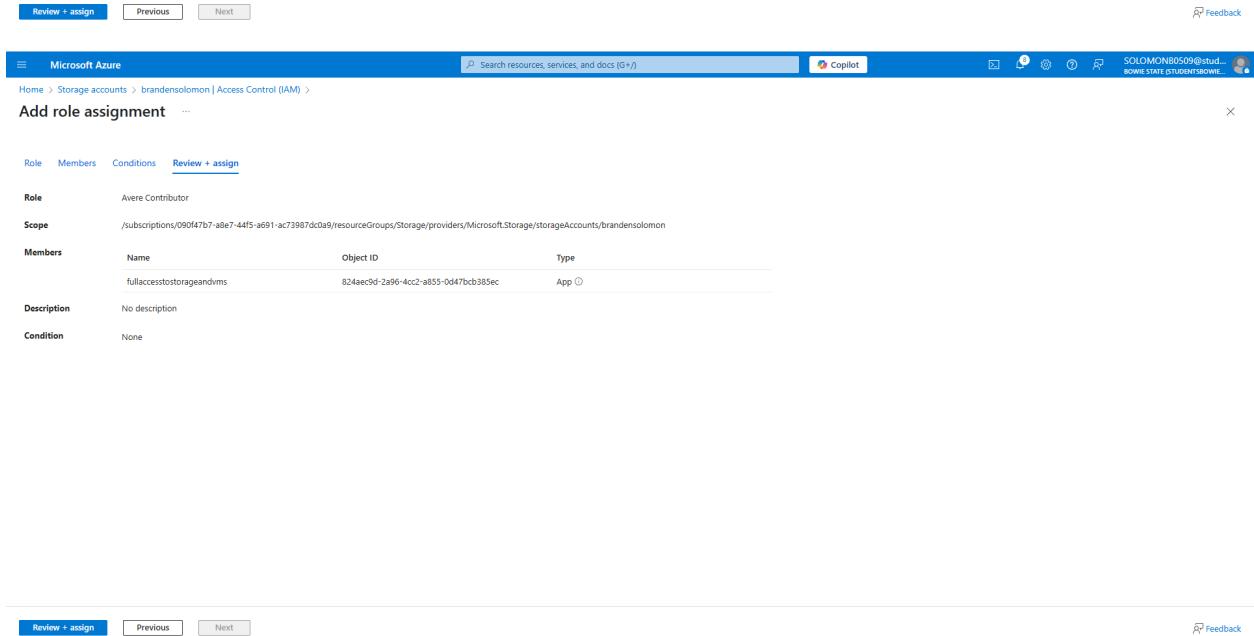
Page 1 of 1



The screenshot shows the 'Add role assignment' step of a multi-step process. The 'Review + assign' tab is selected. The configuration details are as follows:

Role	ReadOnlyFileShare
Scope	/subscriptions/090f47b7-a8e7-44f5-a691-ac73987dc0a9/resourceGroups/Storage/providers/Microsoft.Storage/storageAccounts/brandensolomon
Members	Name: readOnlystorageaccess, Object ID: 29f45868-5801-4ee0-a3b2-0fbf5a5818d7, Type: App
Description	No description

At the bottom, there are 'Review + assign', 'Previous', and 'Next' buttons, along with a 'Feedback' link.

The screenshot shows the 'Add role assignment' step of a multi-step process. The 'Review + assign' tab is selected. The configuration details are as follows:

Role	Avere Contributor
Scope	/subscriptions/090f47b7-a8e7-44f5-a691-ac73987dc0a9/resourceGroups/Storage/providers/Microsoft.Storage/storageAccounts/brandensolomon
Members	Name: fullaccessstorageandvms, Object ID: 824aec9d-2a96-4cc2-a855-0d47bc385ec, Type: App
Description	No description
Condition	None

At the bottom, there are 'Review + assign', 'Previous', and 'Next' buttons, along with a 'Feedback' link.

4. Delete all resources created in this Capstone project. Check through your account to confirm that all related resources have been deleted.

Microsoft Azure

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

Copilot

SOLOMONB0509@stud...  
BOWIE STATE STUDENTSBROWIE...

Azure services

Create a resource Resource groups Virtual networks Network security groups Virtual machines Quickstart Center Azure AI services Kubernetes services App Services More services

Resources

Recent Favorite

Name type Last Viewed

No resources have been viewed recently.

View all resources

Navigate

Subscriptions Resource groups All resources Dashboard

Tools

Microsoft Learn <sup>ai</sup> Learn Azure with free online training from Microsoft Azure Monitor Monitor your apps and infrastructure Microsoft Defender for Cloud Secure your apps and infrastructure Cost Management Analyze and optimize your cloud spend for free