

Configuring Access Control to Azure Storage Accounts



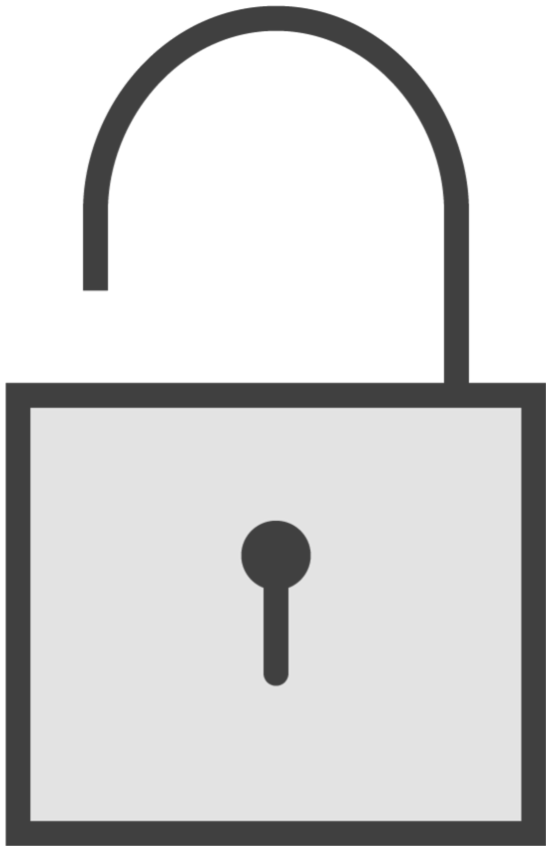
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Data Storage Authorization



Anonymous

- Azure blobs only

Authenticated

- Shared Key authorization
- Shared Access Signatures (SAS)
- Azure AD



Authorizing Access to Azure Storage Data

	Shared Key (storage account Key)	Shared access signature (SAS)	Azure Active Directory (Azure AD)	Anonymous public read access
Azure Blobs	Supported	Supported	Supported	Supported
Azure Files (SMB)	Supported	Not Supported	*Supported using Azure AD Domain Services only	Not Supported
Azure Files (REST)	Supported	Supported	Not Supported	Not Supported
Azure Queues	Supported	Supported	Supported	Not Supported
Azure Tables	Supported	Supported	Not Supported	Not Supported

More information at <https://bit.ly/2DHOGXa>



Shared Access Key Authorization



Access to entire storage account

Protect from view

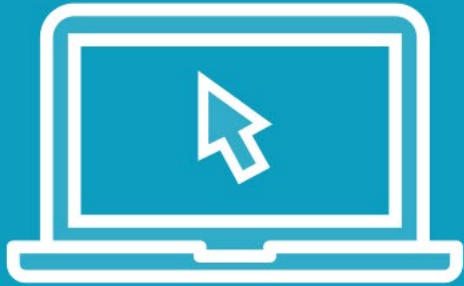
Regenerate keys

Consider Azure AD instead

Use Azure Key Vault



Demo



Working with Shared Access Keys



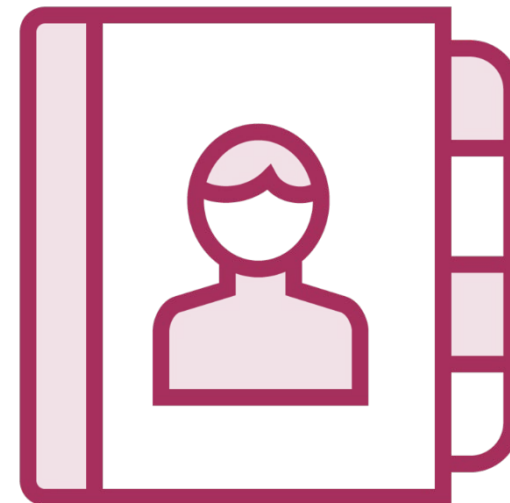
Shared Access Signatures (SAS)



User Delegation



Service



Account



Demo



Accessing Azure Storage with Shared Access Signatures



Azure AD Authorization



Supported for Blob and Queue storage

Uses role-based access control (RBAC)

Microsoft recommended approach



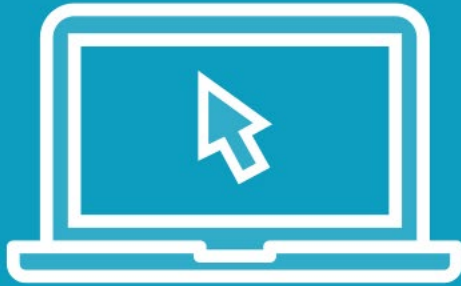
Accessing Resources using Azure AD

Data layer permissions

Management permissions



Demo



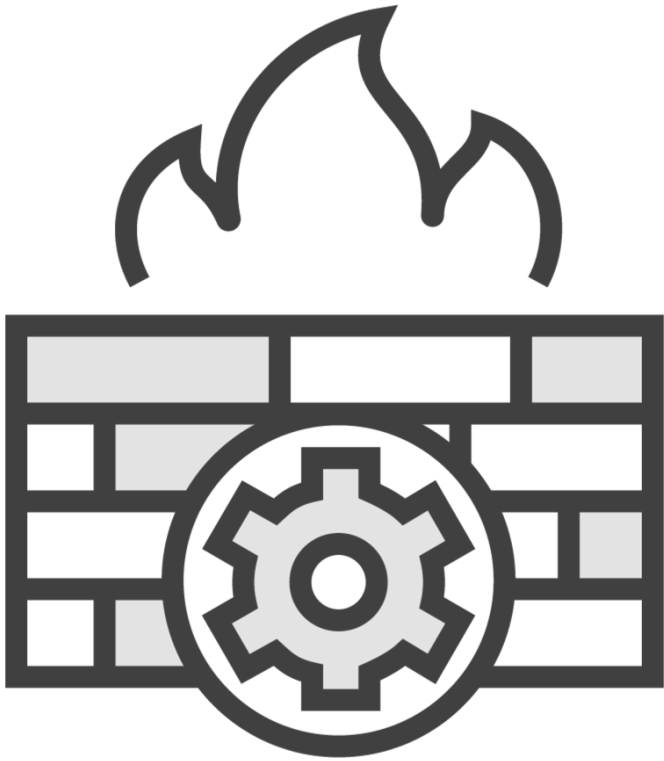
Configure Azure AD Authentication for a Storage Account



Network Access Control



Azure Storage Firewalls and Virtual Networks



Layered security model

Limit access by rules

- IP addresses
- IP ranges
- Subnets in Azure vNets

Requires Authorization



Demo



Configure Network Access to Storage Accounts



Summary



- Know all the storage account options
- Learn your replication options
- Understand all your access and authorization options
- Get some hands-on experience



For Further Learning

Azure Storage Accounts documentation at **docs.microsoft.com**
<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>

Creating and Configuring Microsoft Azure Storage Accounts by
Neil Morrissey
<https://www.pluralsight.com/courses/microsoft-azure-creating-configuring-storage-accounts>

Remember the module exercise files

Questions? Join on the conversation at [pluralsight.com](https://www.pluralsight.com)

