Course AZ-100T02-A: Implementing and Managing Storage

Course Outline

Module 1: Overview of Azure Storage

In this module, you'll learn about storage accounts – Standard and Premium – as well as storage endpoints and how to configure custom domain accounts. You'll have an opportunity to practice creating and managing storage accounts. The module also covers data replication and provides a comparison of the different available replication schemes. You'll be introduced to Azure Storage Explorer, a utility that lets you easily work with and manipulate Azure Storage data.

Lessons
- Azure storage accounts
- Data replication
- Azure Storage Explorer

After completing this module, students will be able to:
- Create Azure storage accounts for different data replication, pricing, and content scenarios.

Module 2: Storage Services

In this module, you'll learn about the disks component of Azure Storage as it relates to virtual machines. Disks are how virtual machines store their VHD files. You will learn about the types of disks and storage and how Azure simplifies IaaS disk management by creating and managing the storage accounts associated with the virtual machine disks. You will also learn about how Azure blob storage stores unstructured data in the cloud as objects, or blobs (BLOB = binary large object). And you'll explore Azure Files, which offers fully managed file shares in the cloud that are accessible via the Server Message Block (SMB) protocol. The other file storage options covered in the module are Tables and Queues for structured storage.

Lessons
- Virtual machine storage
- Blob storage
- Azure files
- Structured storage

After completing this module, students will be able to:
- Implement virtual machine storage, blob storage, Azure files, and structured storage.

Module 3: Securing and Managing Storage

In this module, discover how a shared access signature (SAS) can be used to provide delegated access to resources in storage accounts, allowing clients access to those resources with sharing the storage account keys. You'll also learn how to use Azure backup as a cloud-based solution for an existing on-premises or off-site backup and data protection solution. This module also covers Azure File Sync as a way to centralize an organization's

file shares in Azure Files, and using Windows Server to cache the Azure file share locally, thus enabling scenarios such as "lift and shift," backup and disaster recovery, and file archiving.

Lessons

- Shared access keys
- Azure backup
- Azure File Sync

After completing this module, students will be able to:

- Secure and manage storage with shared access keys, Azure backup, and Azure File Sync.

Module 4: Storing and Accessing Data

In this module, you'll learn about using a content delivery network (CDN) to deliver cached content that is stored on a distributed network of edge servers closer to end-users. You'll also learn how to transfer large amount of data to and from the cloud using the Azure Import/Export service.

Lessons

- Azure Content Delivery Network
- Import and Export service

After completing this module, students will be able to:

- Store and access data using Azure Content Delivery Network, and the Import and Export service.

Module 5: Monitoring Storage

In this module, you will learn techniques for monitoring the health of Azure storage. With metrics and alerts you can check a variety of performance metrics and send notifications to your system administrator team. With the Activity Log you can search and query for specific events, even across subscriptions.

Lessons

- Metrics and Alerts
- Activity Log

After completing this module, students will be able to:

- Monitor Azure storage with metrics and alerts, and the Activity Log.