# Azure Storage BASICS

# What is Azure Storage

Microsoft Azure Storage is a Microsoft-managed cloud service that provides storage that is highly available, secure, durable, scalable, and redundant. Azure Storage consists of Blob storage, File Storage, and Queue storage.

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# LET'S SEE EQUIVALENT STORAGE OPTIONS IN AWS

## Azure Storage Services

Amazon SimpleDB

Amazon SQS

Amazon EFS

**Blob**
Unstructured object data
Object storage

**Table**
Structured datasets
NoSQL key-value store
Fast access

**Queue**
Reliable messaging
Workflow processing

**File**
SMB file shares
REST API

# LET'S SEE EQUIVALENT STORAGE OPTIONS IN AWS

# Storage Account Types

## Traditional

### General purpose
- Blob, table, queue, file

### Blob storage
- Hot access tier
- Cool access tier

Amazon Glacier

## Premium

### SSD
- LRS only

### Page (VM) blobs only

### Pre-configured disk sizes

**IOPs/ throughput are maximums**

**IOPs/ throughput are expected values**
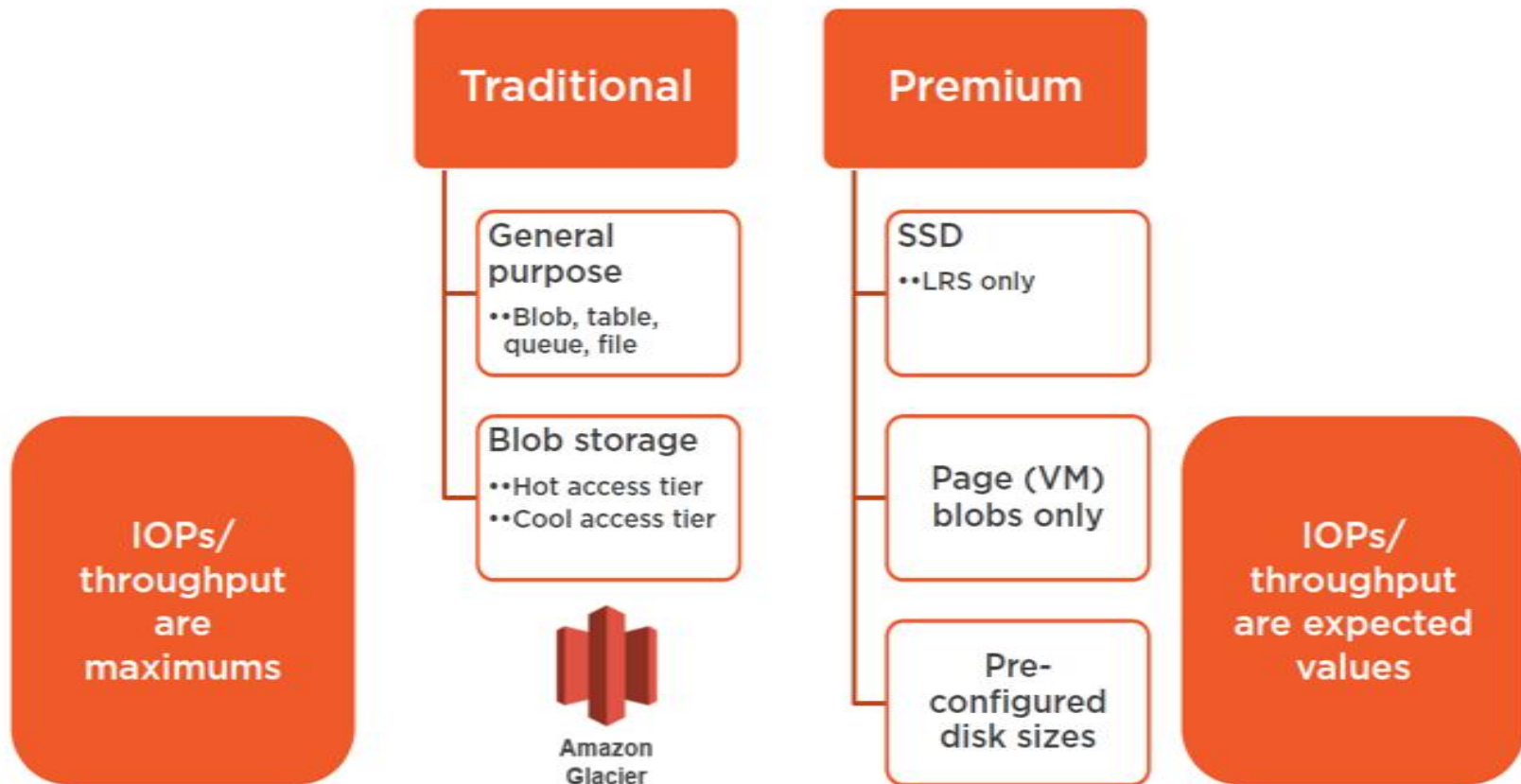
# CREATING STORAGE ACCOUNT and using Storage Explorer

[https://docs.microsoft.com/en-us/azure/storage/common/storage-quickstart-create-account?toc=%2Fazure%2Fstorage%2Fblobs%2Ftoc.json&tabs=portal](https://docs.microsoft.com/en-us/azure/storage/common/storage-quickstart-create-account?toc=%2Fazure%2Fstorage%2Fblobs%2Ftoc.json&tabs=portal)

[https://docs.microsoft.com/en-us/azure/vs-azure-tools-storage-manage-with-storage-explorer](https://docs.microsoft.com/en-us/azure/vs-azure-tools-storage-manage-with-storage-explorer)

# Durability

Long-term data protection in which stored data does not suffer degradation or loss

# Availability

System uptime; the storage system is operational and can deliver data upon request
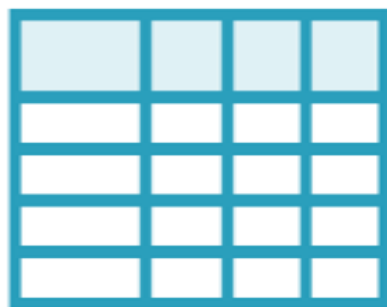
# Scalability

## The ability for storage to accommodate growth

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Legacy support
SMB file shares
REST API

# Storage Replication Options

## Locally redundant storage (LRS)

- •3 copies of your data within the same datacenter (region)
- •Protects data against hardware failure

## Zone-redundant storage (ZRS)

- •3 copies across 2 to 3 facilities, sometimes across 2 regions
- •Protects data within a single region

## Geo-redundant storage (GRS)

- •3 copies in primary region, 3 copies in secondary region
- •Protects data across regions

## Read-access geo-redundant storage (RA-GRS)

- •Read-only access to the secondary region data