

Microsoft Azure Developer: Develop Solutions with Blob Storage

UNDERSTANDING AZURE BLOB STORAGE



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Learn for the exam
AZ-204: Developing Solutions
for Microsoft Azure



AZ-204 Exam Objectives

Develop solutions that use Blob Storage

- Interact with data using the appropriate SDK

- Set and retrieve properties and metadata

- Implement data archiving and retention

- Implement hot, cool, and archive storage

- Move items in Blob Storage between storage accounts or containers



Course Structure

Understanding Azure Blob Storage

Interacting with Data Using the Azure SDK for .NET

Interact with data using the appropriate SDK

Setting and Retrieving Properties and Metadata

Set and retrieve properties and metadata

Implementing Data Archiving and Retention

Implement data archiving and retention

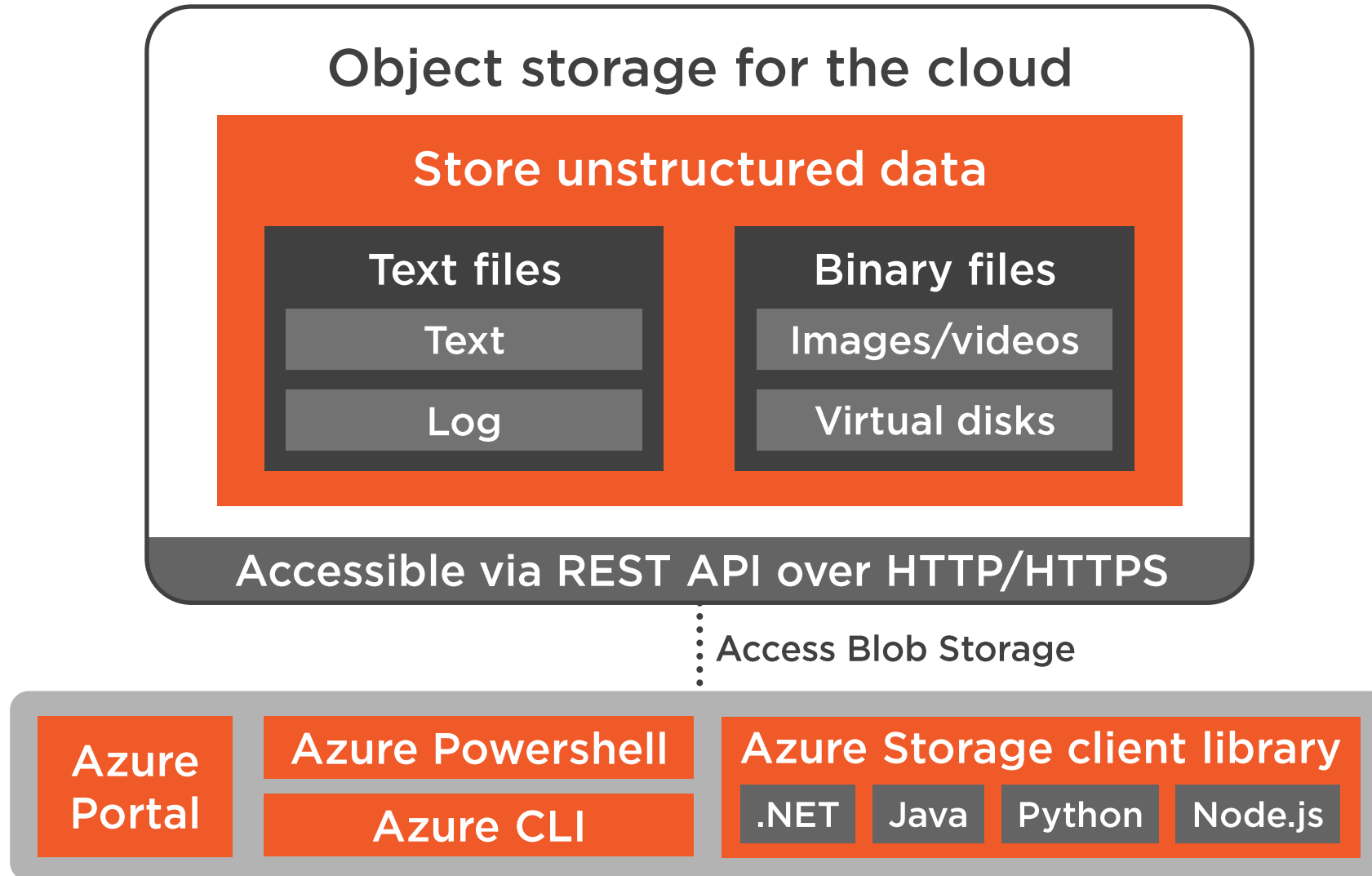
Implement hot, cool, and archive storage

Moving Items Between Storage Accounts and Containers

Move items in Blob storage between storage accounts or containers



Azure Blob Storage Overview



Understand Storage Accounts, Containers, and Blobs

Storage Account

storagepluralsight

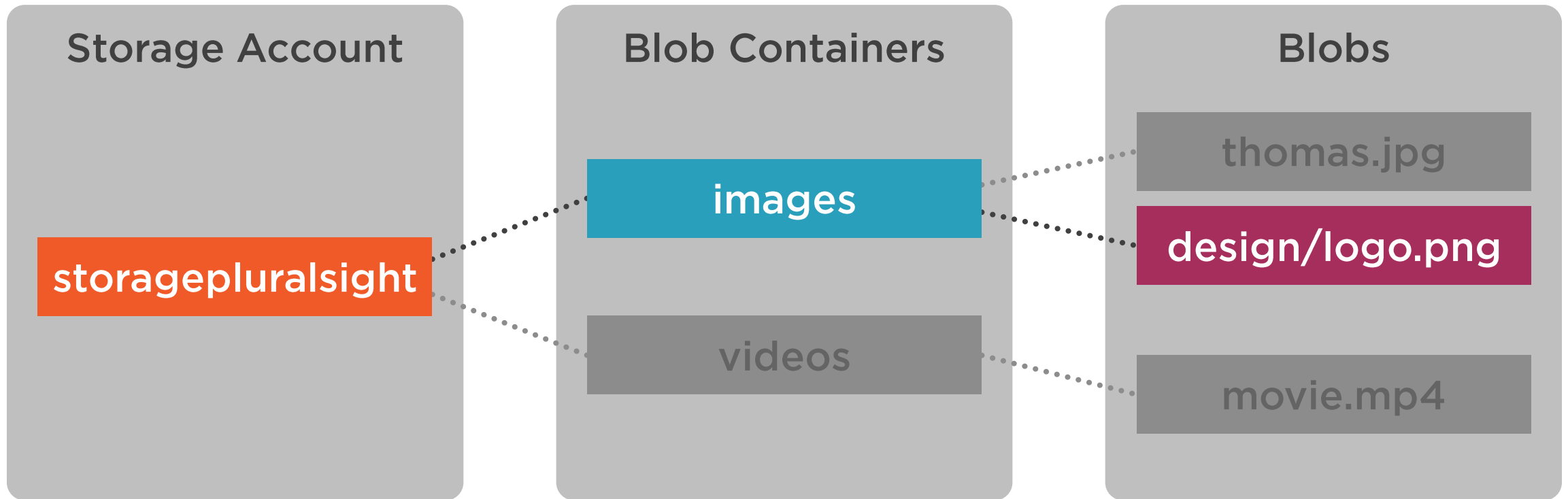
Name must be **unique** across all Azure Storage Accounts

- Must be between 3 and 24 characters long
- Must contain only lower-case letters and numbers

<https://storagepluralsight.blob.core.windows.net>



Understand Storage Accounts, Containers, and Blobs



<https://storagepluralsight.blob.core.windows.net/images/design/logo.png>

<https://storagepluralsight.blob.core.windows.net/images?comp=list>



Demo



Create a Storage Account
and upload blobs




```
az storage account create  
  --name storagepluralsight01  
  --resource-group pluralsight  
  [--location westeurope]  
  [--sku Standard_RAGRS]  
  [--kind StorageV2]
```

Create a Storage Account

Use the Azure CLI



New-AzStorageAccount

```
-Name storagepluralsight01  
-ResourceGroupName pluralsight  
-Location westeurope  
-SkuName Standard_RAGRS  
[-Kind StorageV2]
```

Create a Storage Account

Use Azure Powershell



Authorize Requests to Blob Storage

Shared Key
(Storage Account Key)

Shared Access Signature
(SAS)

Azure Active Directory

**Anonymous public
read access**



Demo

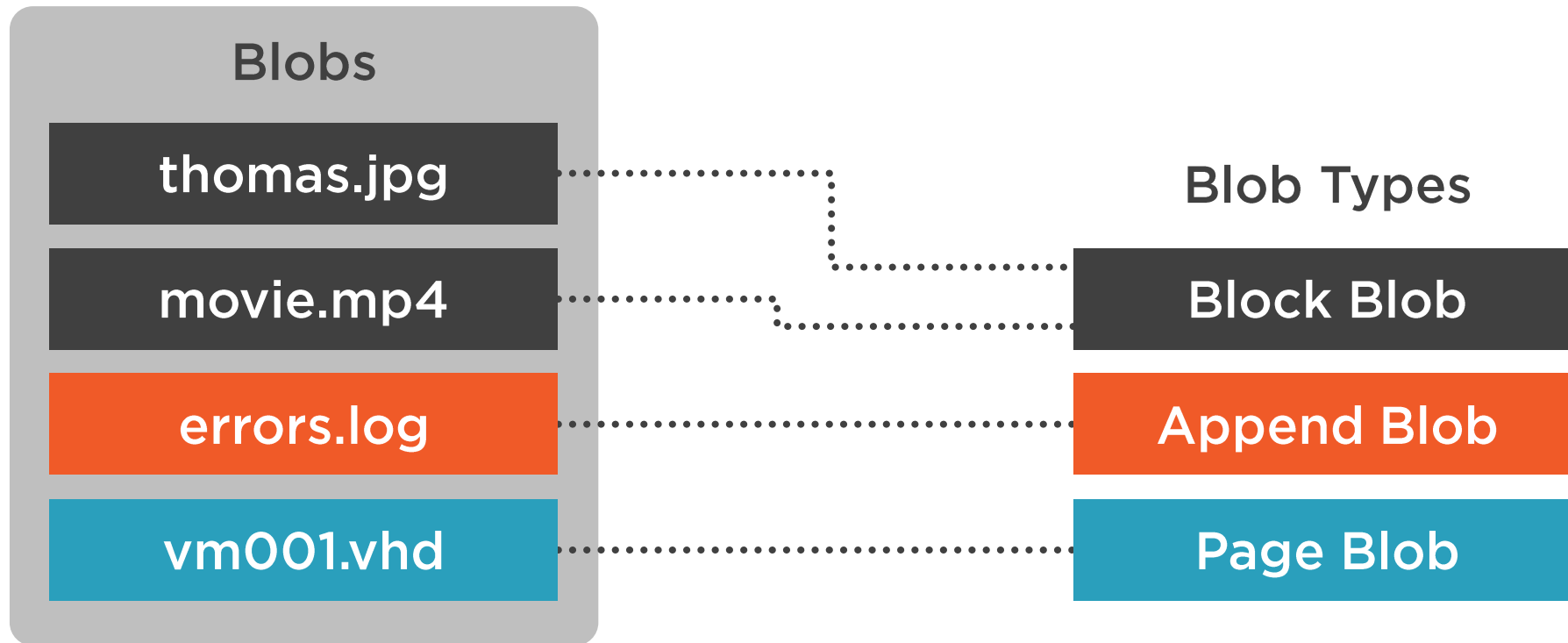


Authorize requests with a Shared Access Signature (SAS)

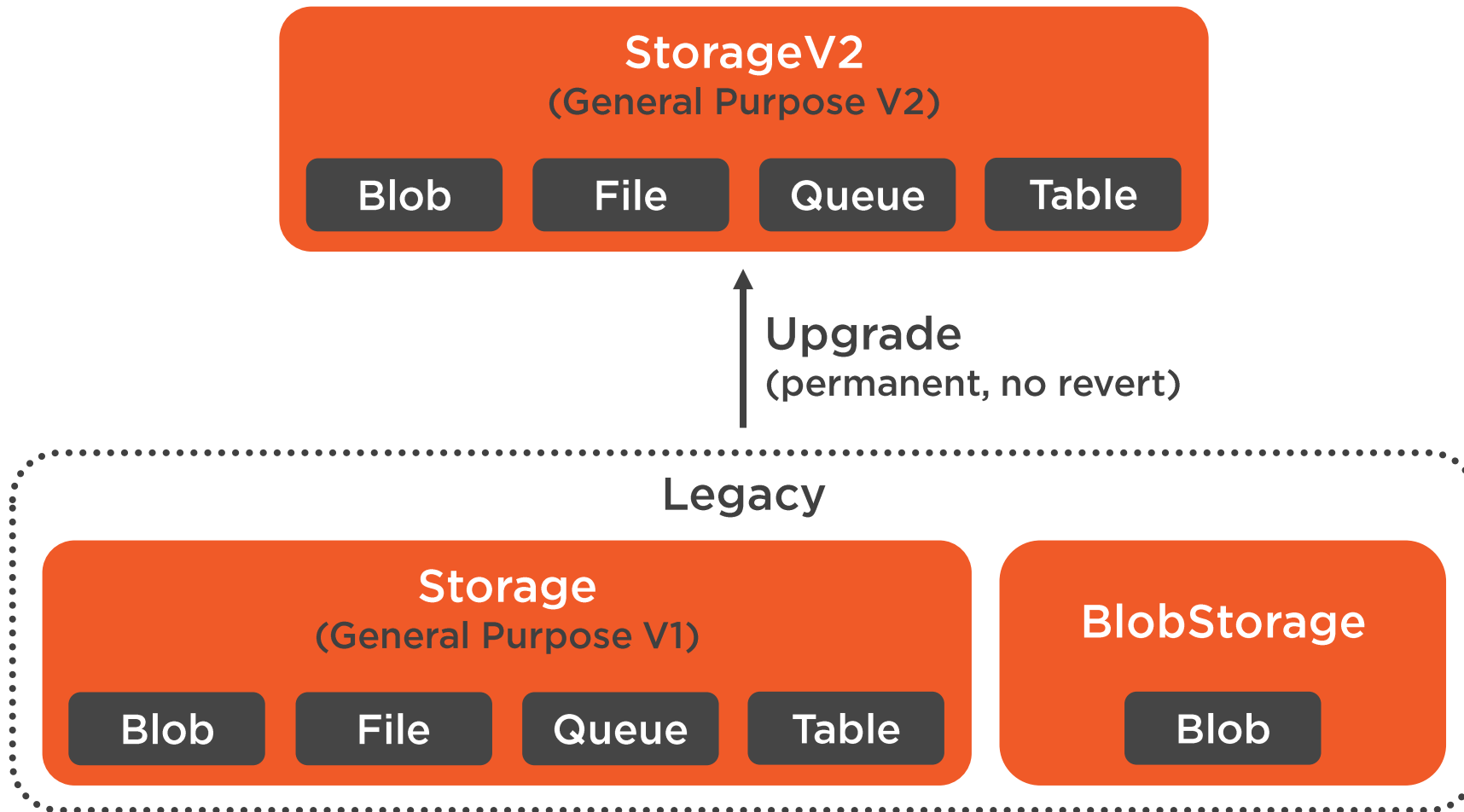
Configure anonymous public read access



Know the Different Blob Types



Know the Storage Account Kinds

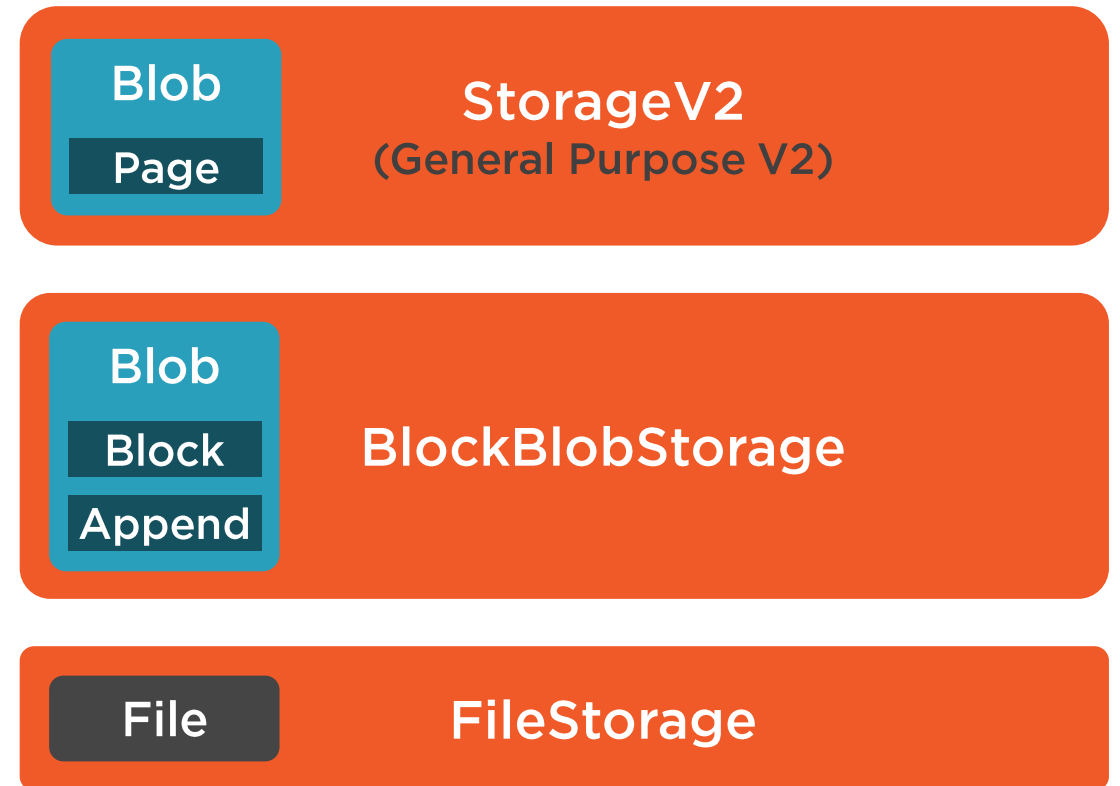


Know the Storage Account Kinds

Standard performance (Magnetic drives)



Premium performance (Solid state drives)

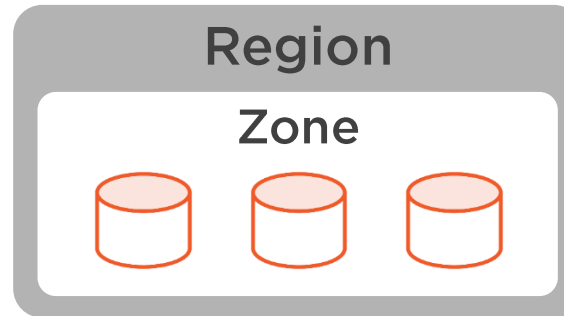


Data at rest is encrypted with
Storage Service Encryption



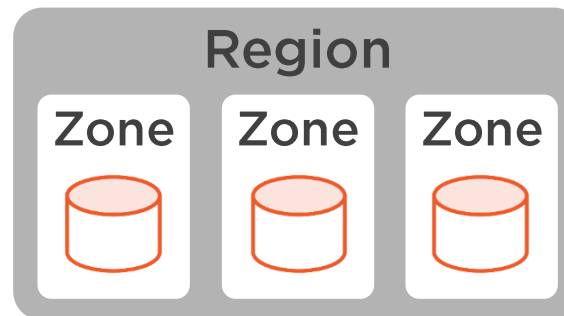
Choose a Replication Strategy

Locally redundant storage (LRS)

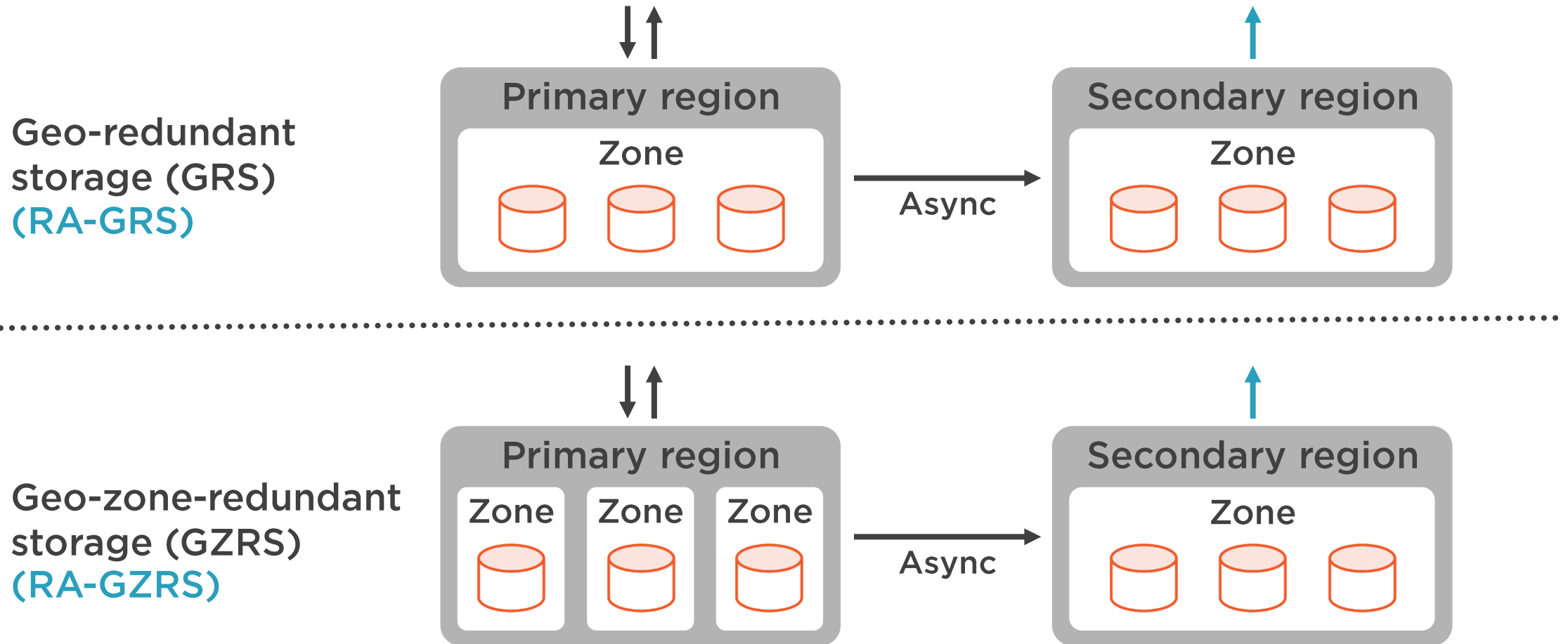


Zone-redundant storage (ZRS)

Not supported
in all regions



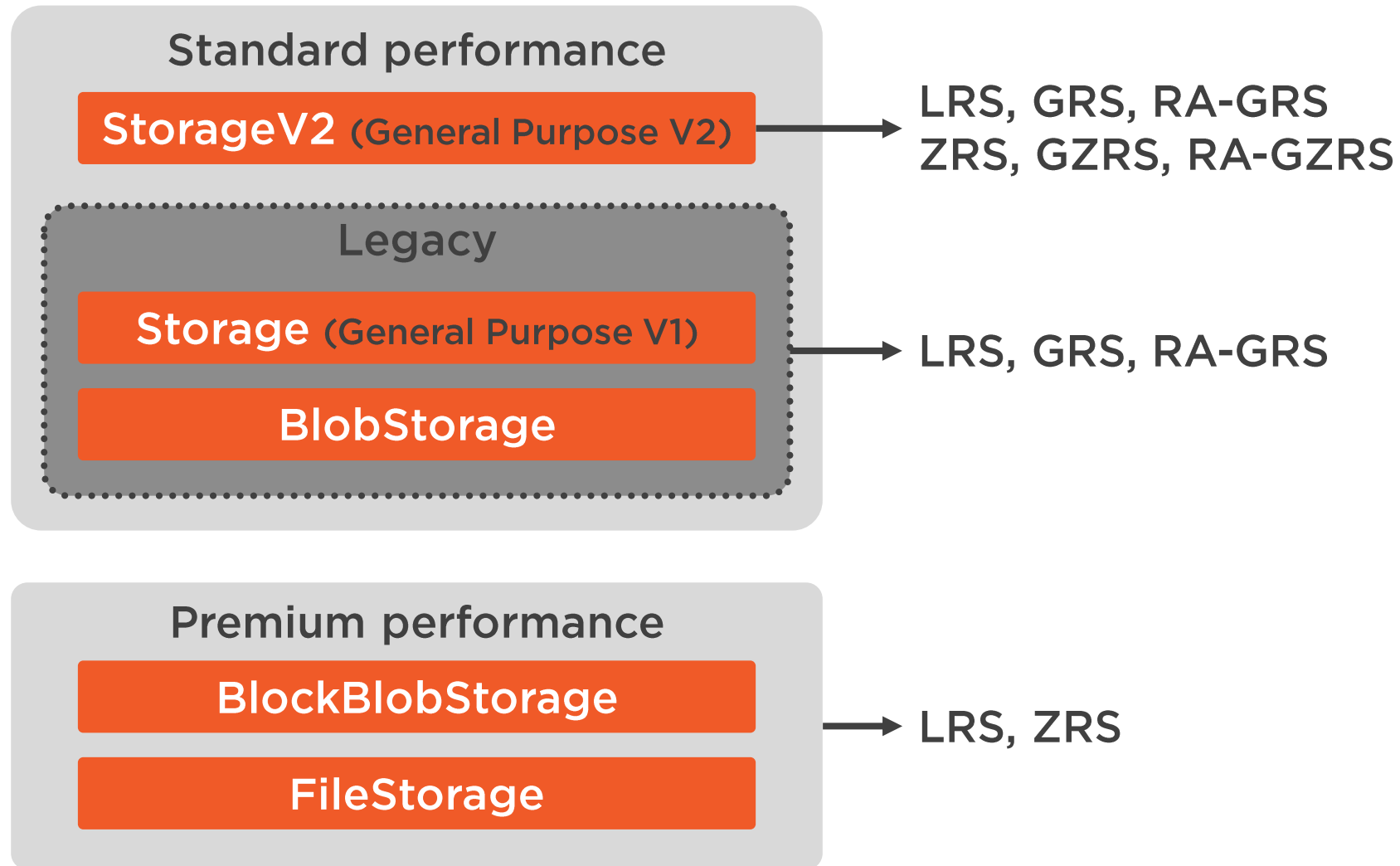
Choose a Replication Strategy



<https://<storageaccountname>-secondary.blob.core.windows.net>



Storage Accounts and Replication Strategies



Next Up

Interacting with Data Using
the Azure SDK for .NET

