

Storage Account

- File
- Queue
- Table
- Blob

Blob

- Serving Images, Documents directly to Browser.
- Storing files for distributed Access.
- Streaming Video & Audio.
- Writing/Reading to Log file's.
- Storing data for backup & Restore.
- DR, Archiving.

Unstructured Data.

to Access Blob Storage

- HTTP/s
- SDK / API
- SFTP (Secure file Transfer Protocol)
- Mount \rightarrow NFS 3.0

V1 \rightarrow Blob Storage

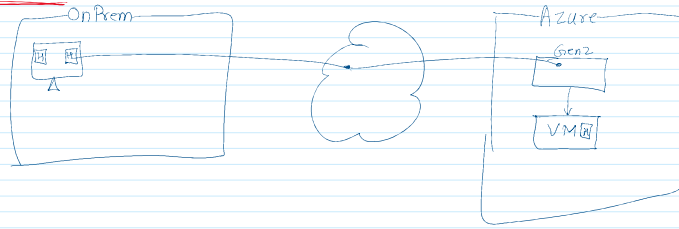
V2 \rightarrow Data Lake Storage Gen2 = (V1 + Extra features)

Gen2

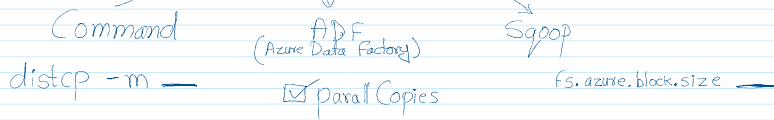
- Low Cost
- Tiered Storage
- HA, DR Capabilities
- Strong Consistency
- HDFS

- ABFS (Azure Blob File System)
- DFS
- Hierarchical

Use Case

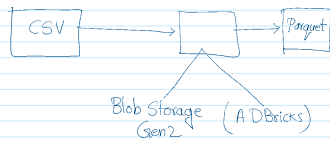


◦ Parallel Data Ingestion.



◦ Time Series

◦ IoT



End Point

(V1) Blob Storage
Static Website

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

→ web ←

(V2) DL Gen2
Azure file

→ .dfs. ←

→ .file. ←

Queue.

→ Queue ←

TableStorage

→ .table ←

Redundancy:-

LRS = Local Redundancy Storage

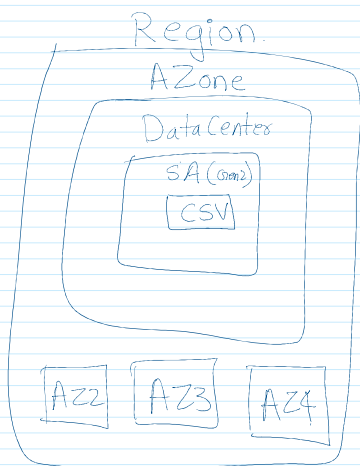
3 replica

1 region

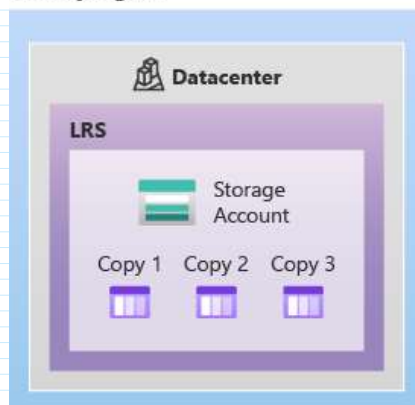
1 zone

ZRS

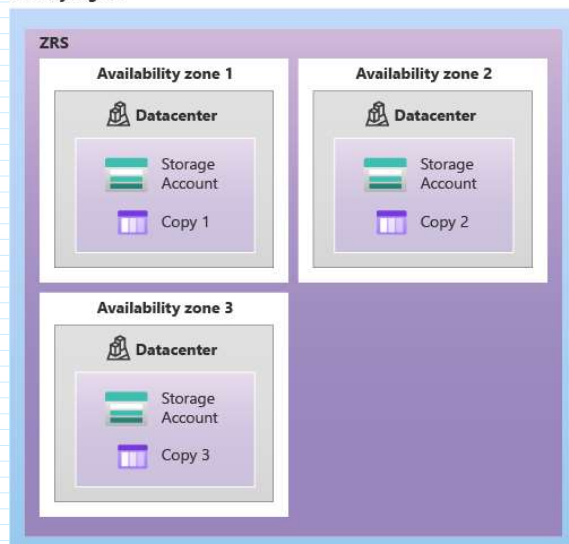
3 Zone



Primary region



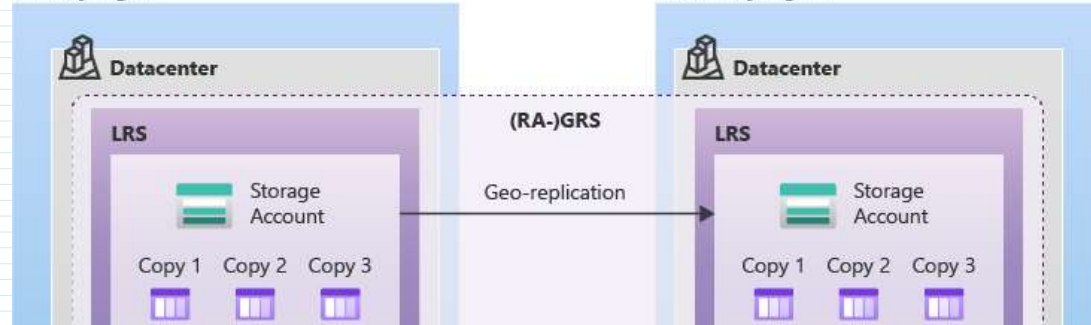
Primary region



GRS

Primary region

Secondary region

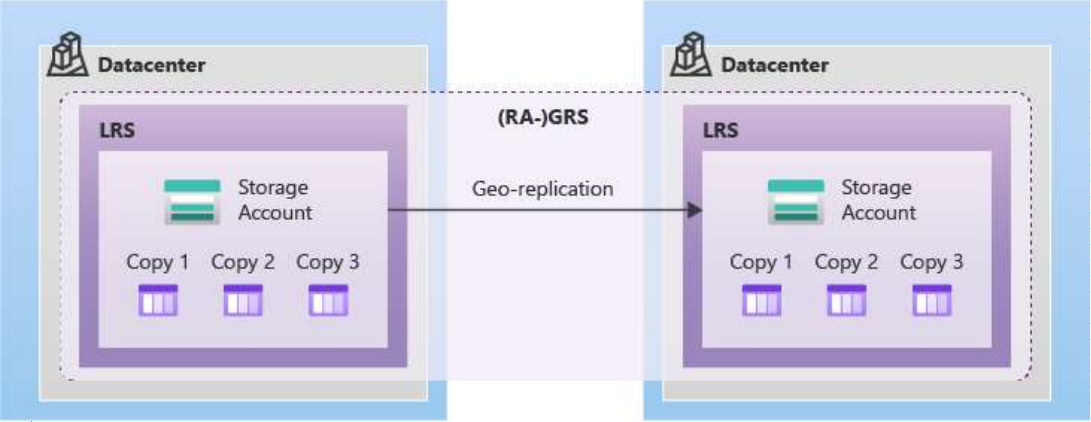


Reg → Zone → fi

le

Primary region

Secondary region



Reg → Zone → fi

```
$ bash --version
$ az --version

Display all Resource Groups
$ az group list

Show a Resource Group
$ az group show --name rgCloudShell-mhghed

List all Resources within the Resource Group
$ az resource list --resource-group rgCloudShell-mhghed

To Export Resource Group to an ARM Template
$ az group export --name groupName
```

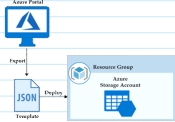
ARM Template → CLI → [Icon]

- Infra. Resources
- Configuration
- JSON

Schema = Rules

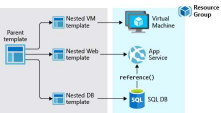
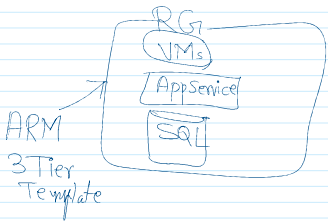
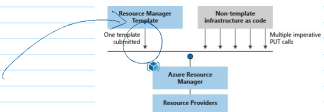
- I/P ←
- ② Parameters
 - ③ Variables
 - ④ Functions
 - ⑤ Resources

O/P ← ⑥ output

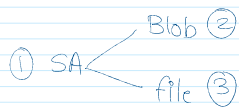


ARM Templates:

- Declarative Syntax
- Repeatable Results
- Orchestration
- Tracked Deployment



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```

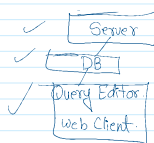
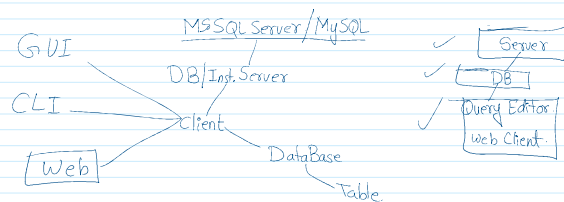
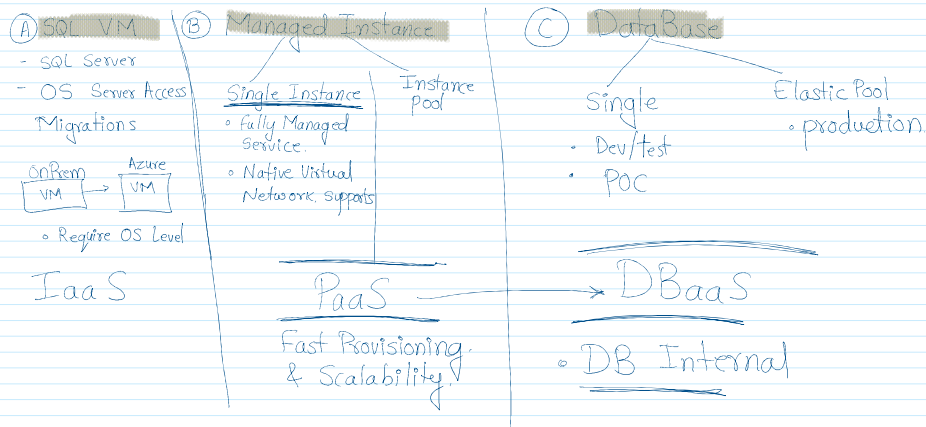
$rg = New-AzResourceGroup -Name armdemo-rg -Location WestUS2

Generate Code and Store in storageAccount.json file
$cd
Create ARM Template JSON File ( storageAccount.json )

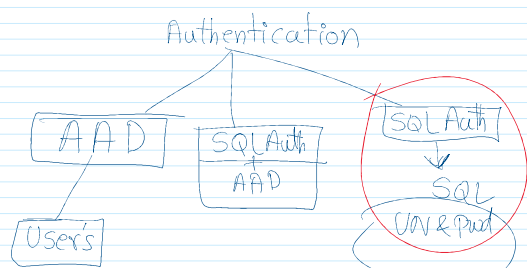
New-AzResourceGroupDeployment "
-ResourceGroupName $rg.ResourceGroupName
-TemplateFile .\template.json
-StorageAccountName 'templatetodemonstrated'
-TemplateParameterFile 'parameters.json'
-Verbose
  
```

Remove-AzResourceGroupDeployment -ResourceGroupName \$rg.ResourceGroupName -Name template

Azure SQL



1] Server
2] DB



Username: admin-mysql@
Password: Localhost@123

