

# Managing Web Apps and SQL Databases

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# Managing Web Apps and SQL Databases



## Web App

Create App Service Plan

Create Web App

Manage settings

Manage deployment

Configure SSL certificates

Swap slots



## SQL Database

Create server

Create database

Configure elastic pools

Manage replication

Backup and restore



# Demo



## Create an app service plan

- az appservice plan create

## Create a web app

- az webapp create



# Demo



## Deploy from GitHub

- az webapp deployment source config

## Sync changes

- az webapp deployment source sync



# Demo



## Create a SQL Server

- az sql server create

## Create a SQL database

- az sql db create



# Demo



## Configure SQL Server firewall

- az sql server firewall-rule create

## Update Web App settings

- az webapp config connection-string set



# Demo



## Export SQL database as .bacpac

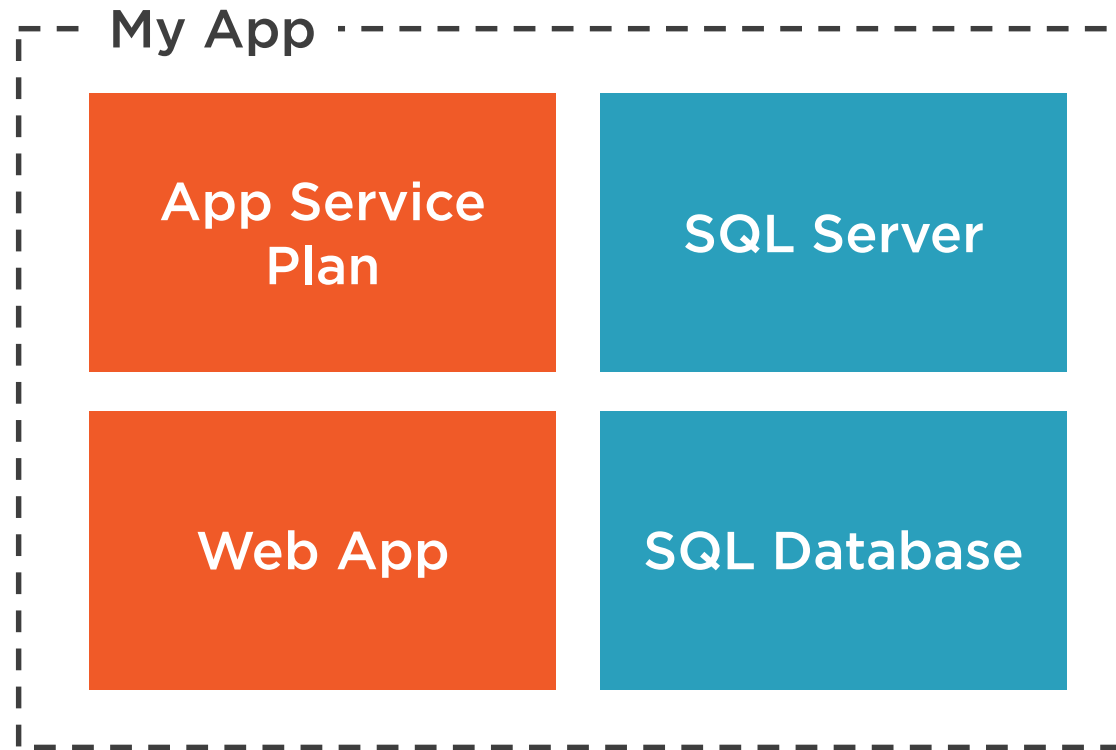
- az sql db export

## Import .bacpac to a new database

- az sql db import

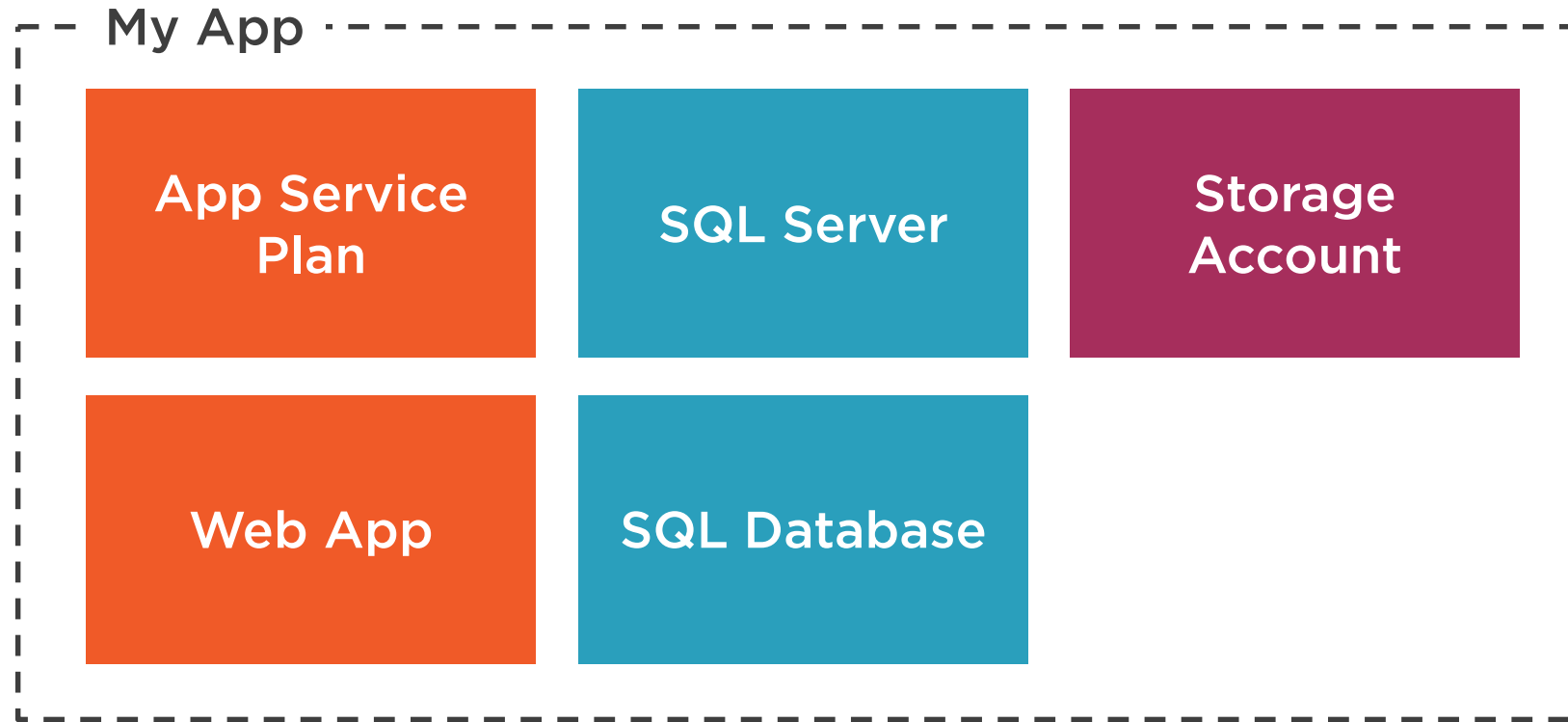


# Organizing Resources into Groups

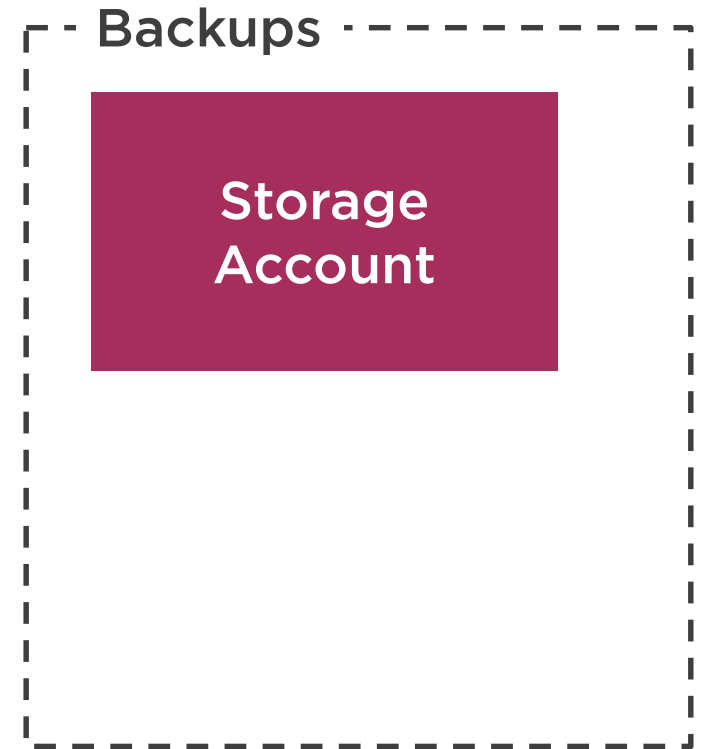
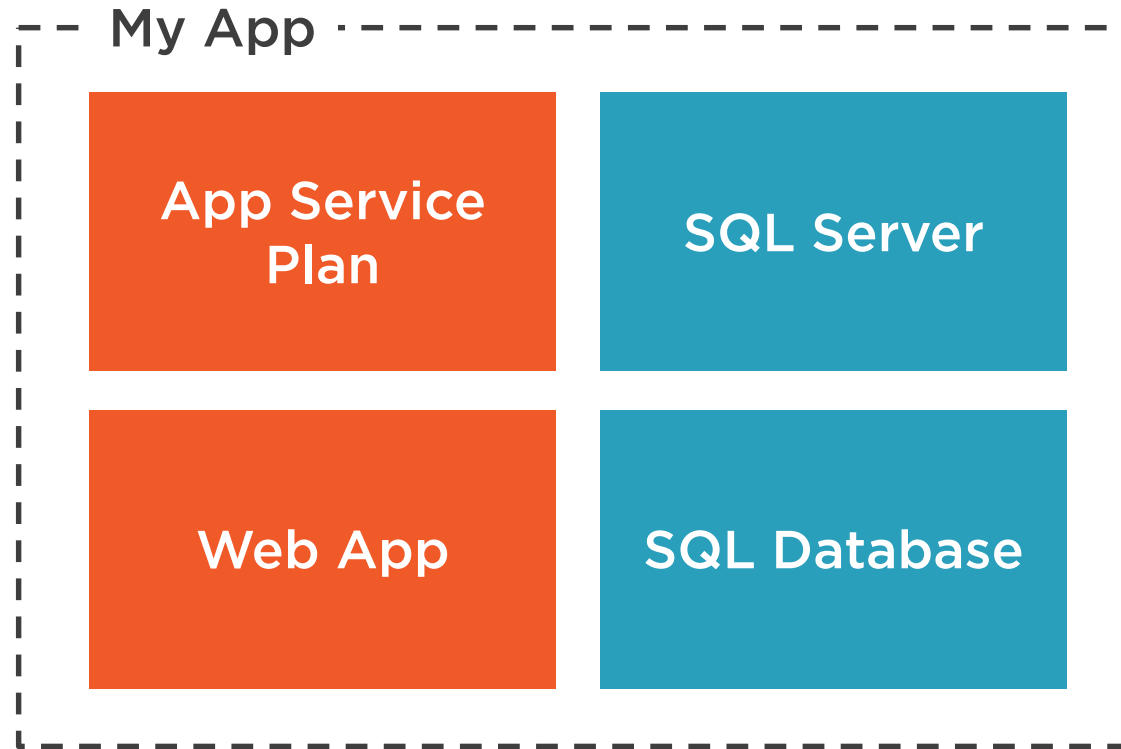




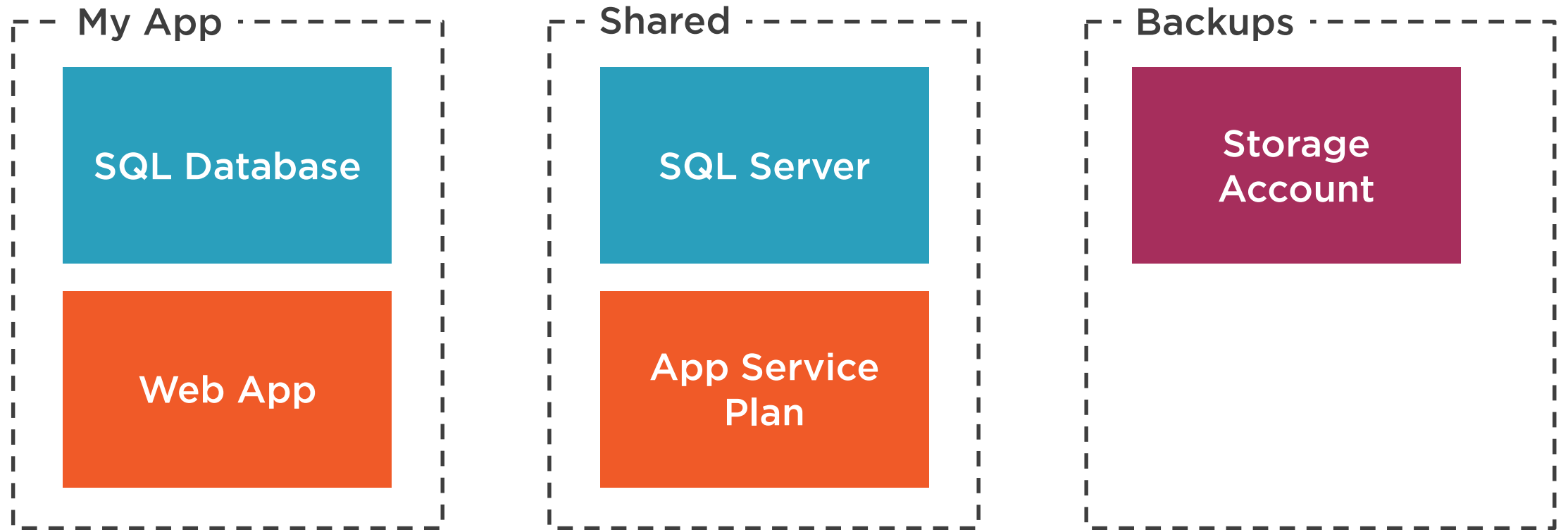
# Organizing Resources into Groups



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# Managing Web Apps and SQL Databases with the Azure CLI

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```
az appservice plan create
-n MyPlanName
-g MyResourceGroup
-l westeurope
--sku B1

az webapp create
-g MyResourceGroup
-n MyWebAppName
--plan MyPlanName

az webapp deployment source
config
-n MyWebAppName
-g MyResourceGroup
--repo-url MyGitRepoUrl
--branch master
--manual-integration
```

- ◀ Create an app service plan
- ◀ Specify the SKU
- ◀ Create a web app
- ◀ App hosting plan
- ◀ Configure to deploy from git
- ◀ URL of Git repository
- ◀ Explicit updates



```
az sql server create
-n MyServerName
-g MyResourceGroup
-u UserName -p Password
```

```
az sql server db create
-n MyDatabaseName
-g MyResourceGroup
-s MyServerName
--service-objective Basic
```

```
az sql server firewall-rule
create
-s MyServerName
-g MyResourceGroup
-n MyRuleName
--start-ip-address 212.14.6.102
--end-ip-address 212.14.6.102
```

- ◀ Create a SQL Server
- ◀ User name and password
- ◀ Create a database
- ◀ Choose the pricing tier
- ◀ Allow firewall access
- ◀ Specify allowed IP range



```
az webapp config
connection-string set
-n MyWebAppName
-g MyResourceGroup
--settings
"MyContext=MyConnectionString"
--connection-string-type
SqlAzure
```

```
az sql db export
-s MyServerName
-d MyDatabaseName
-g MyResourceGroup
-u UserName -p Password
-storage-key-type
StorageAccessKey
--storage-key MyStorageKey
--storage-uri MyBacpacBlobUri
```

- ◀ Set a connection string for the web app
- ◀ Connection string name = connection string value
- ◀ Export to bacpac
- ◀ Details of database to backup
- ◀ Database credentials
- ◀ Storage account credentials
- ◀ Backup location



Up next ...

Deploying resources with  
ARM from the Azure CLI

