Deploying Resources with ARM

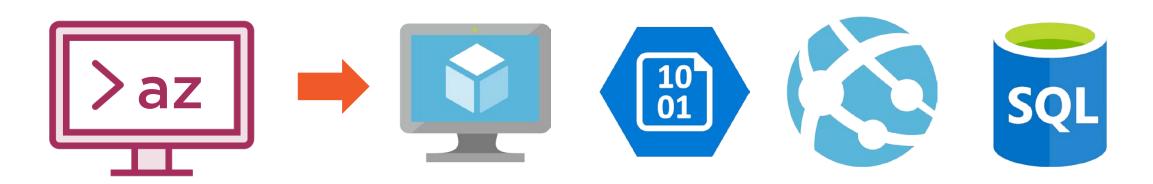


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Creating Azure Resources

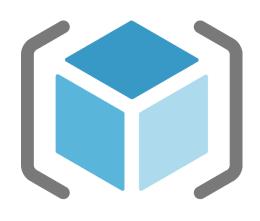


Azure Resource Manager (ARM)





Benefits of Azure Resource Manager



Declarative model

- Define what's in the resource group

Efficient deployment

Incremental deployment

Parameterized

- Deploy different variations easily

Work well with the Azure CLI

Demo



Create an ARM template

- az group deployment create

Azure Quickstart templates library

- github.com/Azure/azure-quickstarttemplates
- Customize template parameters



Demo



Generate an ARM template

- az group export

Creating templates

- Azure portal
- Visual Studio



Demo



Deploy a local custom ARM template

- az group deployment create

Deploy an updated template version

- Add an additional web app

Revert to original template

- Delete the additional web app



Deploying Resources with ARM



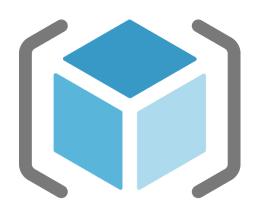
az group deployment create

- -n DeploymentName
- -g MyResourceGroup
- --template-file MyTemplate.json
- --parameters @MyParams.json
- --parameters UserName=mheath
- --mode Incremental

- Deploy an ARM template
- Deployment name
- **◄** Target resource group
- ↓ Location of the ARM template (or use --template-uri)
- **◄** Location of the parameters file
- Additional parameter overrides
- Deployment mode incremental or complete



Creating ARM Templates



az group export

Create automation script in Azure portal

Visual Studio tooling

Azure Quickstart templates

 https://github.com/Azure/azure-quickstarttemplates



Up next ...

Automating with Service Principals

