

Cloud Republic

Azure Deployment Stacks

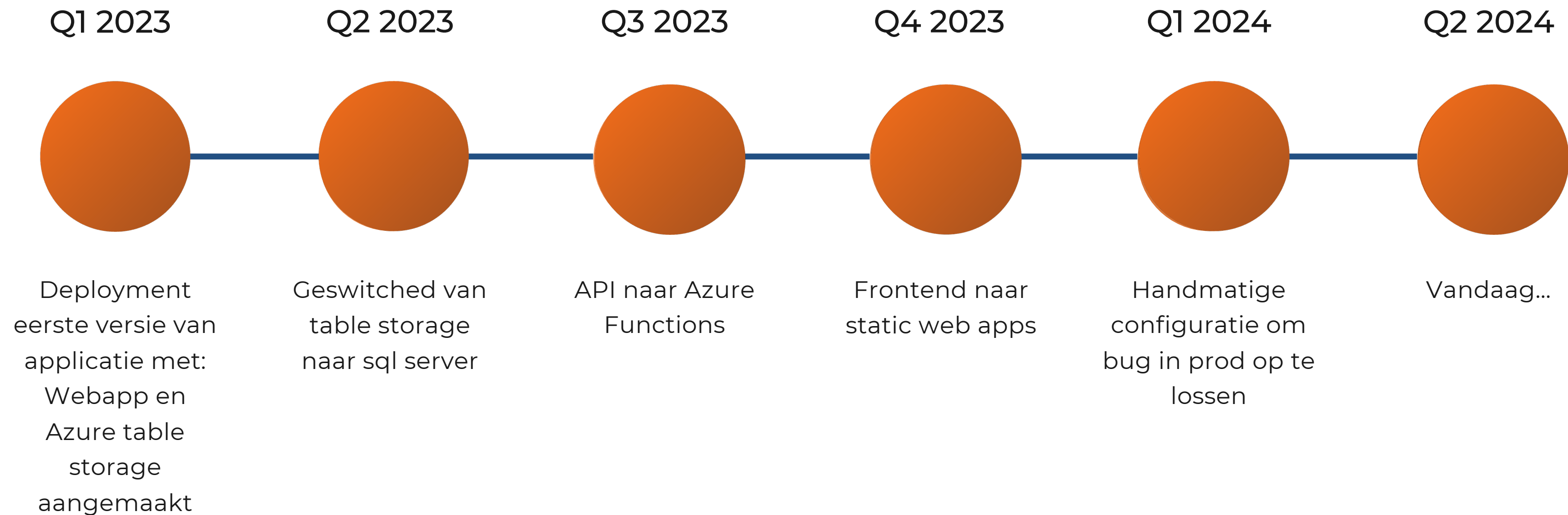
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Azure Deployment Stacks

Een effectieve en transparante manier voor het deployen van jouw applicatie in azure



Een standaard devops process



Vandaag





Deployment Stacks

State management

- Inzichtelijk welke deployment wat neerzet
- Automatisch verwijderen van resources

Resource protection

- Bescherming tegen verwijdering
- Bescherming tegen configuratie aanpassingen

Migratie van Azure CLI deployment

```
az deployment group create  
  --resource-group {resourceGroup}  
  --name {deploymentName}  
  --template-file {bicepPath}
```

```
az stack group create  
  --resource-group {resourceGroup}  
  --name {deploymentName}  
  --template-file {bicepPath}  
  --deny-settings-mode None  
  --yes
```

`az stack sub create` en `az stack mg create` bestaan ook

Migratie van Azure Powershell deployment

AzResourceGroupDeployment

```
-ResourceGroupName {resourceGroup}  
-Name {deploymentName}  
-TemplateFile {bicepPath}
```

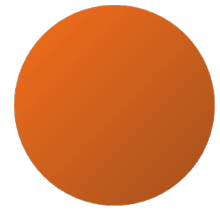
Add-AzSubscriptionDeploymentStack

```
-DeploymentResourceGroupName {resourceGroup}  
-Name {stackName}  
-TemplateFile {bicepPath}  
-DenySettingsMode None
```

Set-AzSubscriptionDeploymentStack

```
-DeploymentResourceGroupName {resourceGroup}  
-Name {stackName}  
-TemplateFile {bicepPath}  
-DenySettingsMode None
```

`New-AzSubscriptionDeploymentStack` en `New-AzManagmentGroupDeploymentStack` bestaan ook



GA release

GA sinds - 23 Mei 2024

Public Preview - 26 Jul 2023

[ARM Deployment Stacks now GA!](#)
[- Microsoft Community Hub](#)



Bedankt!

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Deployment stacks - cheat sheet

```
az stack [mg|sub|group] create -g {resourceGroup} -name {stackName} --template-file {bicepPath} --action-on-unmanage [deleteAll|deleteResources|detachAll]
--deny-settings-mode [none|denyDelete|denyWriteAndDelete] --yes
```

Deleting instead of detaching

Resources: --action-on-unmanage deleteResources

All resources: --action-on-unmanage deleteAll

!! Stacks cannot delete keyvault secrets. Use Detach mode if a secret is no longer in a bicep template

--deny-settings-excluded-principals "{p1} {p2}"

Allows specific principals to still perform delete and modify actions even if the deny mode does not allow it. Max 5

!! For service principals use the objectId of the enterprise application

Working with templates

Template file: --template-file

Template url: --template-uri

Predeployed template: --template-spec

Passing param file: --parameters {path to param file}

Passing param cli: --parameters KEY=VALUE KEY=VALUE