

### Show-Feature -Name Microsoft.Resources/deploymentStacks

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#### PS C:\> Get-Speaker

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## Agenda



- Introduction to Deployment Stacks
- Demos

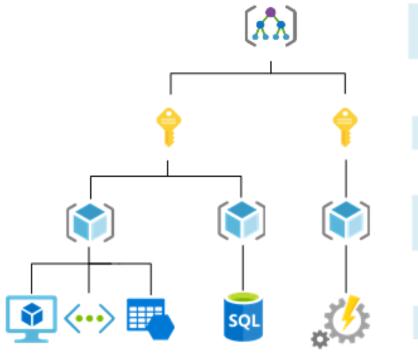


### Azure deployments today





New-AzTenantDeployment



Management groups

New-AzManagementGroupDeployment

Subscriptions

New-AzSubscriptionDeployment

Resource groups

New-AzResourceGroupDeployment

Resources



Introducing Deployment Stacks

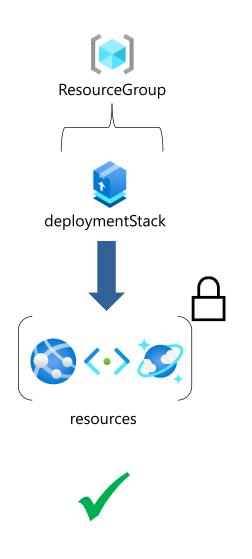
■ A deploymentStack is a collection of resources that allows for lifecycle operations to be performed on the entire collection.

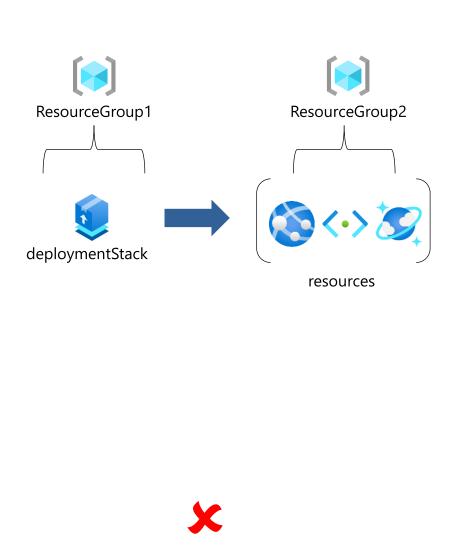


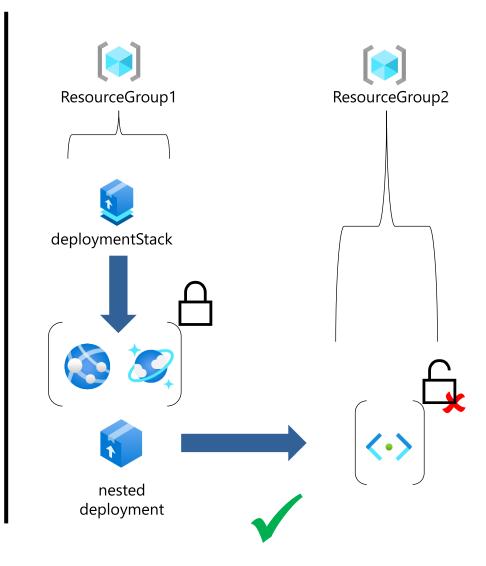
## The Life of a deploymentStack

Day <i>n</i>	deploymentStack deploys	Resulting Azure State with "actionOnUnmanage"			
		Detach		Delete	
Initial Deployment	Storage	managed Storage	no longer managed	Storage	
Add a KeyVault	Storage Key Vault	Storage Key Vault		Storage Key Vault	
Swap Storage for CosmosDB	Cosmos DB Key Vault	Cosmos DB Key Vault	Storage	Cosmos DB Key Vault	Storage
Add Storage	Cosmos DB Key Vault Storage	Cosmos DB Key Vault Storage		Cosmos DB Key Vault Storage	
Remove Storage, Add Web	Cosmos DB Key Vault Web App	Cosmos DB Key Vault Web App	Storage	Cosmos DB Key Vault Web App	Storage
DELETE the deploymentStack			<b>ॐ ≅</b>		<b>Ø Ø</b>

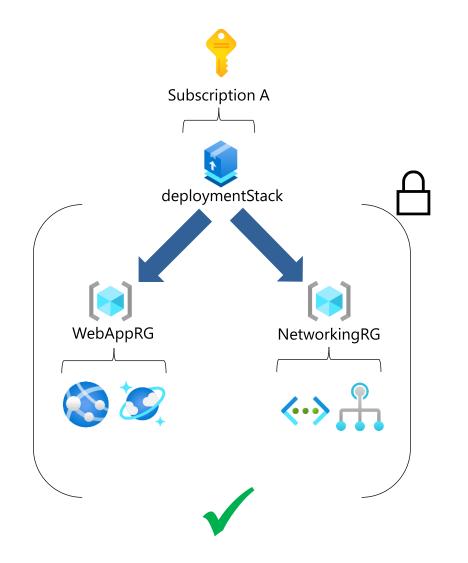
### Scoping a deploymentStack

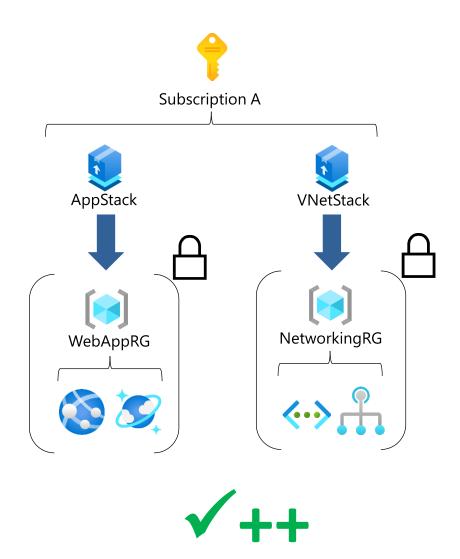






### Scoping a deploymentStack





### Demos

We love Demos!







### Summary

#### Lifecycle Management

 Define resources to be managed as a single unit across scopes using templates.

#### Teardown (Cleanup)

 Delete a stack and all resources (across scopes) without the need to understand dependencies or sequence

#### Deny Assignments

 Lockdown a collection of resources which can only be modified by the collection owner - except in cases of operational emergencies



### **Next Steps**



#### **Private Preview (Available Now)**

- · Create stacks at MG, Sub, and RG scopes & deploy managedResources to Sub and RG scopes
- · Azure CLI and PowerShell Support
- Exclude AAD Principal IDs to be exempt from the denyAssignment
- · DenyAssignments DenyDelete & DenyWriteAndDelete support

#### **Public Preview (Available July 2023)**

- · Portal UX support create and manage your deploymentStacks from the Azure Portal
- · <u>aka.ms/deploymentstacks</u>



### Resources



- aka.ms/psconfeu2023/deploymentstacks
  - Slides and demos
- aka.ms/bicep
  - Bicep documentation
- Twitter
  - @BicepLang Product Group
  - @adotfrank Alex Frankel, Program Manager Azure Deployments
  - @apclouds Ángel Perez, Program Manager Azure Deployments



## **Community calls**



- YouTube Azure Deployments & Governance
  - Recordings
- GitHub Azure/bicep
  - Issues with the 'community-call' label, one per month



# Q&A

PRAGUE23

15 minutes



