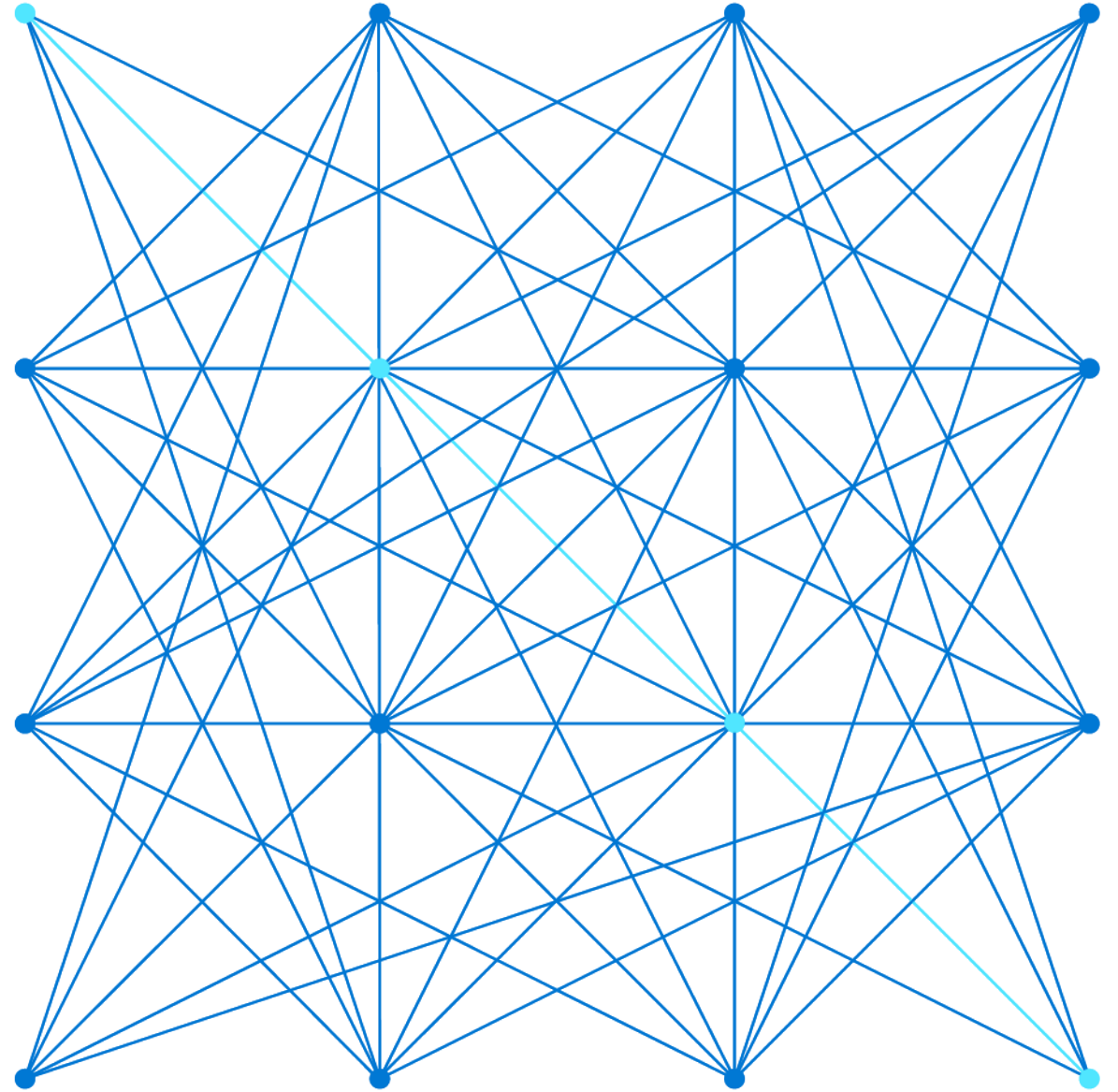


Azure Deployment Stacks

Atomic Resources using Azure Bicep (or ARM Templates)



Why use Deployment Stacks?



Collection of Azure Resources

Streamlined provisioning and management of resources across different scopes as a unified entity.



Control Changes and Deletions

Prevention of undesired modifications to managed resources via deny settings.



Easily Track and Clean Up Resources

Efficient environment cleanup using delete flags during deployment stack updates.



Builds on existing templates

Use of standard templates such as Bicep, ARM templates, or Template specs for your deployment stacks.

How to use Deployment Stacks?



Az PowerShell Module

```
New-AzResourceGroupDeploymentStack `
  -Name "<deployment-stack-name>" `
  -ResourceGroupName "<resource-group-name>" `
  -TemplateFile "<bicep-file-name>" `
  -ActionOnUnmanage "detachAll" `
  -DenySettingsMode "none"
```



Az CLI

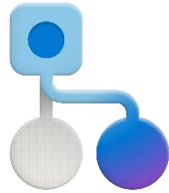
```
az stack group create `
  --name '<deployment-stack-name>' `
  --resource-group '<resource-group-name>' `
  --template-file '<bicep-file-name>' `
  --action-on-unmanage 'detachAll' `
  --deny-settings-mode 'none'
```



Azure Portal

Currently not implemented.

Deployment Stacks and Scope



Can be deployed to all
resource container scopes

- Management Groups
- Subscriptions
- Resource Groups



Cannot manage resources
outside of the deployment scope

If we deploy to subscription "A" with our
deployment stack command,

and our template deploys a cross-
subscription resource to subscription "B",

then the resource in subscription "B"
cannot be managed by the stack.



DEMO



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Questions / Discussion



Sources

- <https://learn.microsoft.com/en-us/azure/azure-resource-manager/bicep/deployment-stacks?tabs=azure-cli>
- <https://learn.microsoft.com/en-us/azure/azure-resource-manager/bicep/quickstart-create-deployment-stacks?tabs=azure-cli%2CCLI>
- <https://learn.microsoft.com/en-us/cli/azure/stack?view=azure-cli-latest>
- <https://learn.microsoft.com/en-us/azure/virtual-machines/windows/quick-create-bicep?tabs=CLI>
- <https://learn.microsoft.com/en-us/cli/azure/use-azure-cli-successfully?tabs=bash%2Cbash2>