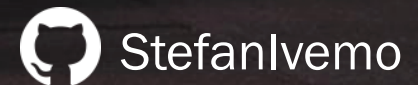




Chalk up! Time for some advanced Bicep training!

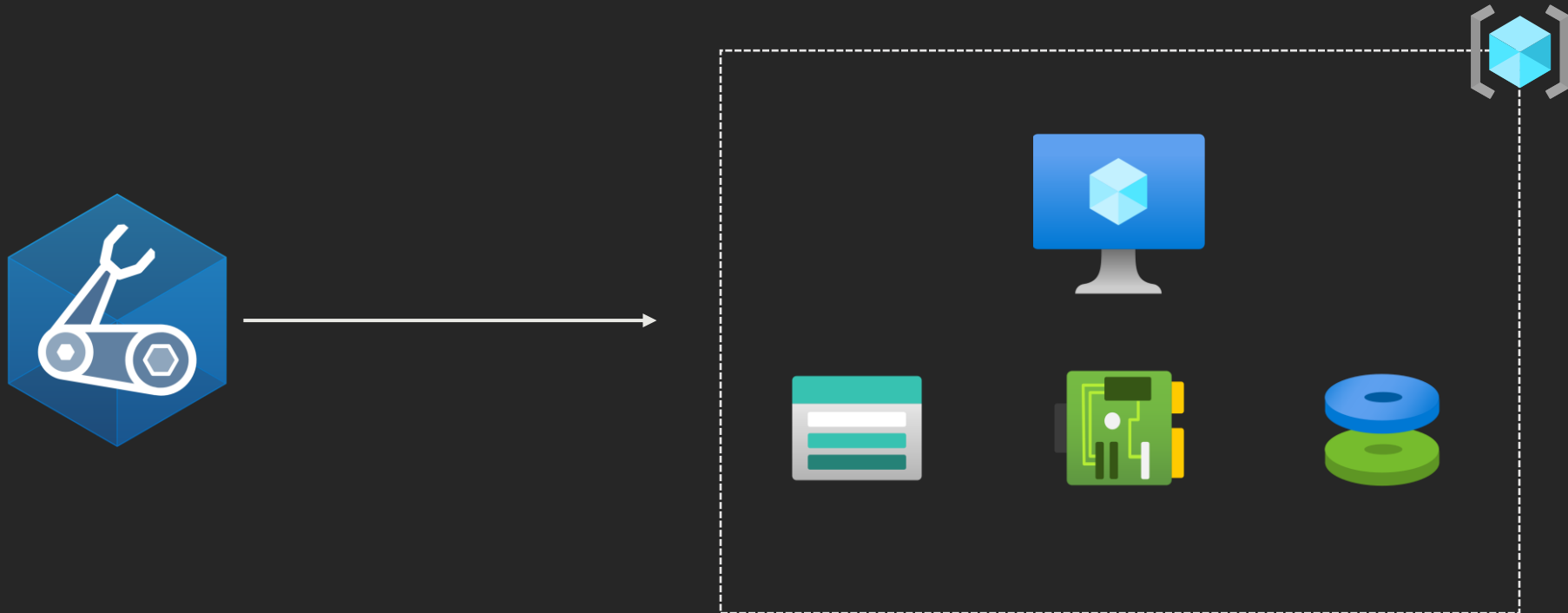
Stefan Ivemo | Microsoft MVP
Technical Architect | Advania Knowledge Factory



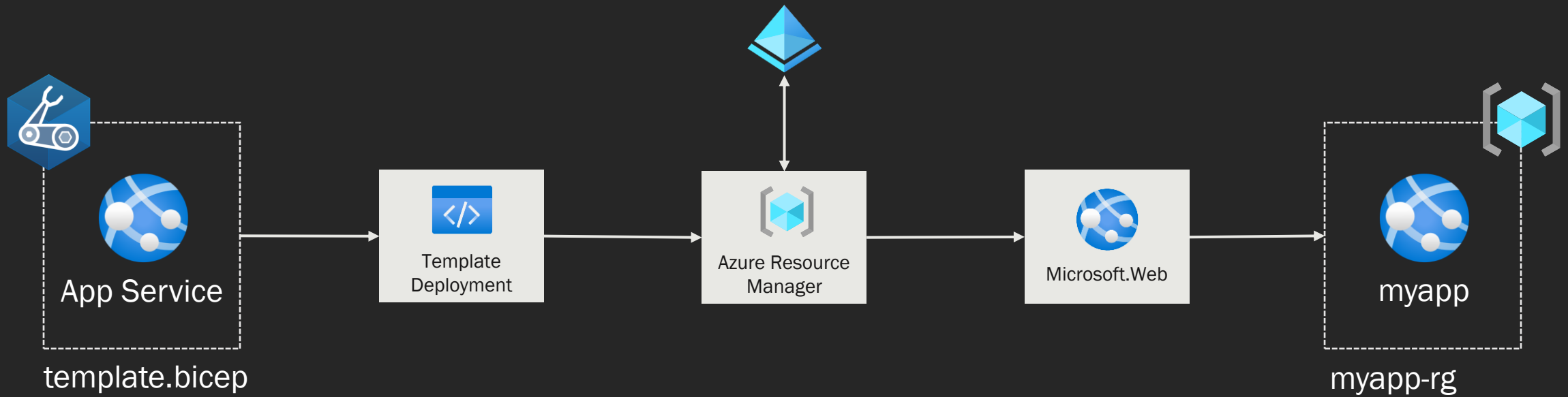


Warm up: Azure Bicep recap

Infrastructure as Code (IaC)



Template deployments



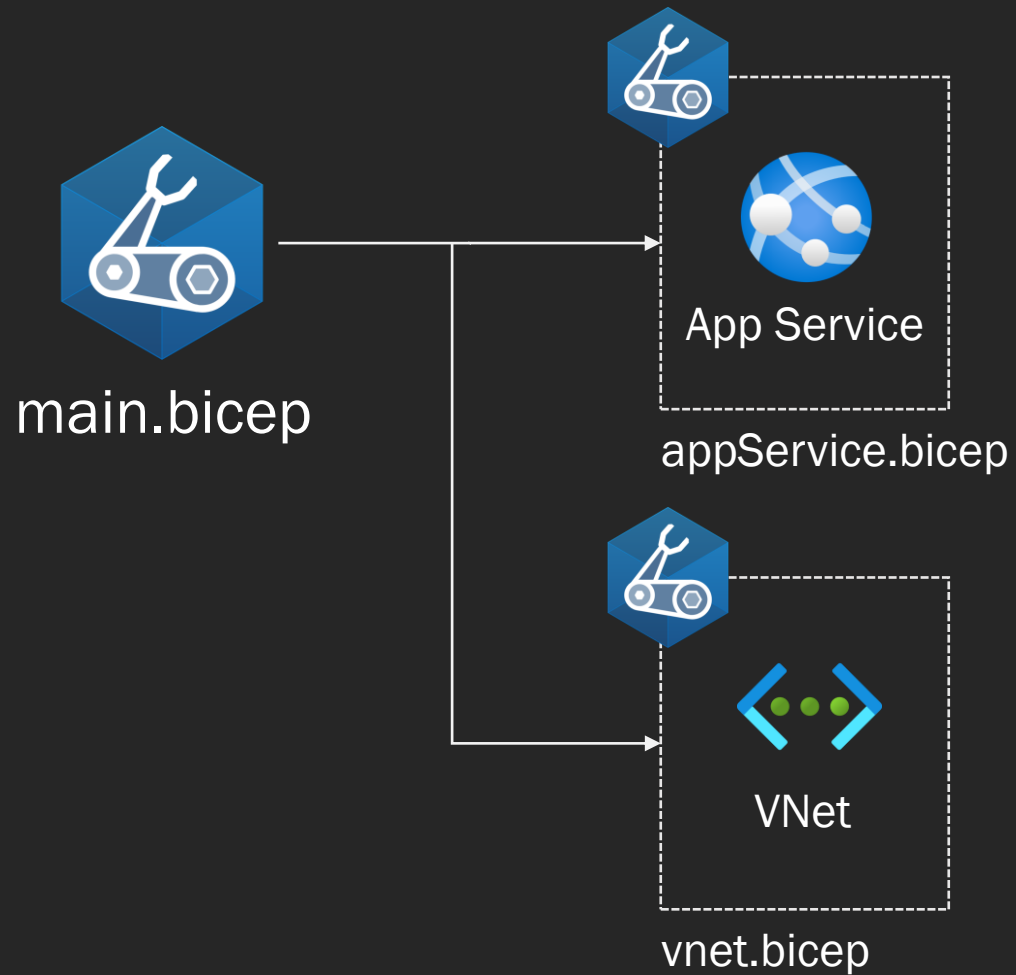
Demo:

Bicep Syntax

Exercise 1: Working with modules



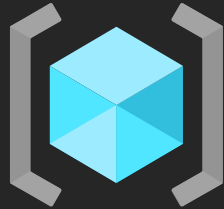
What is a module?



What can I use as a module?



Bicep template



ARM template

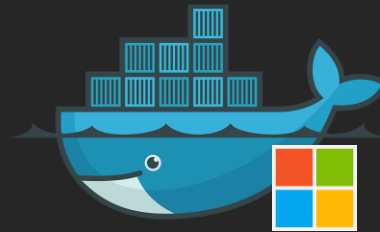
Local modules



Private module
registry (ACR)



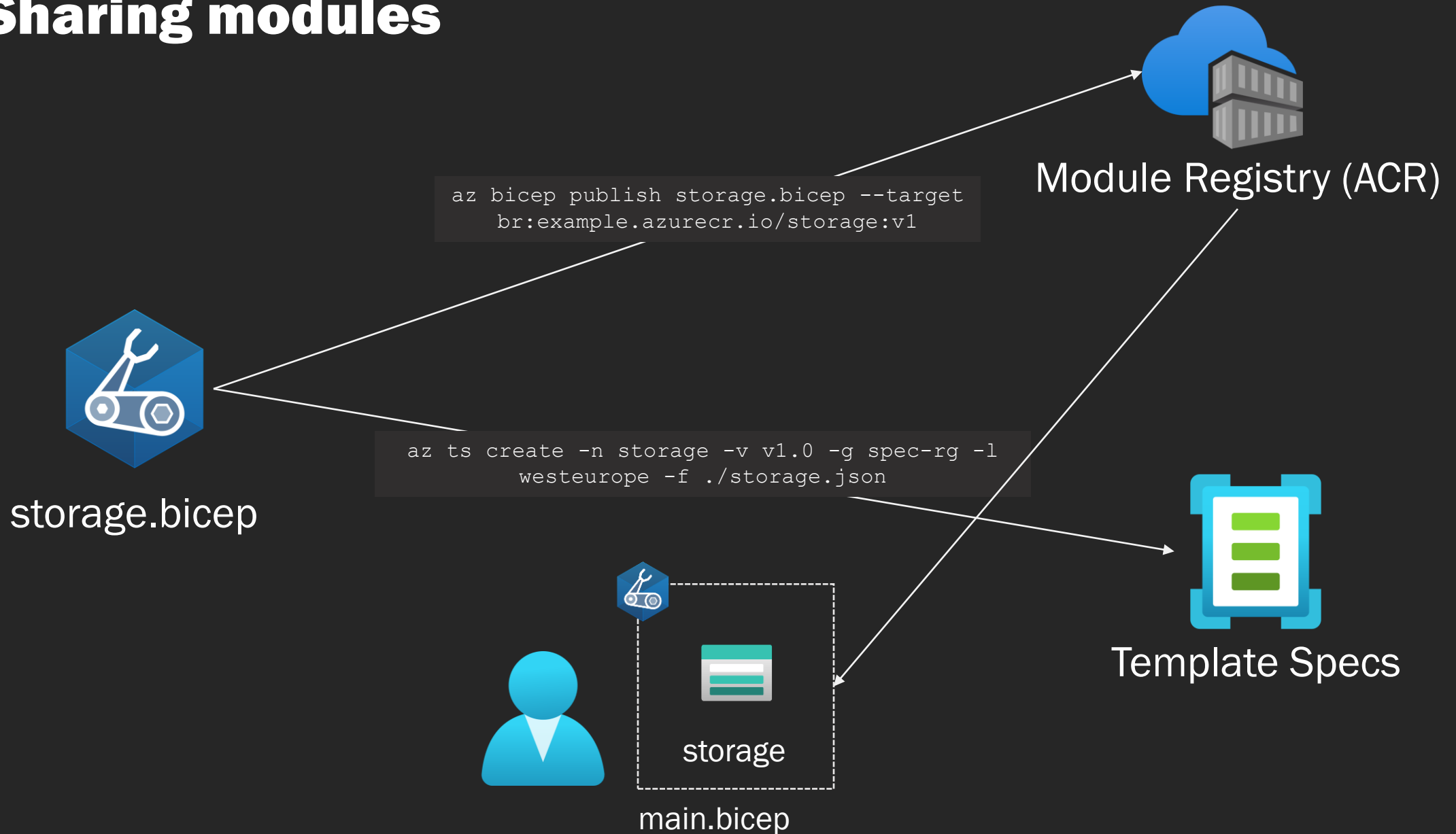
Template Spec



Public module
registry (MCR)

Shared modules

Sharing modules



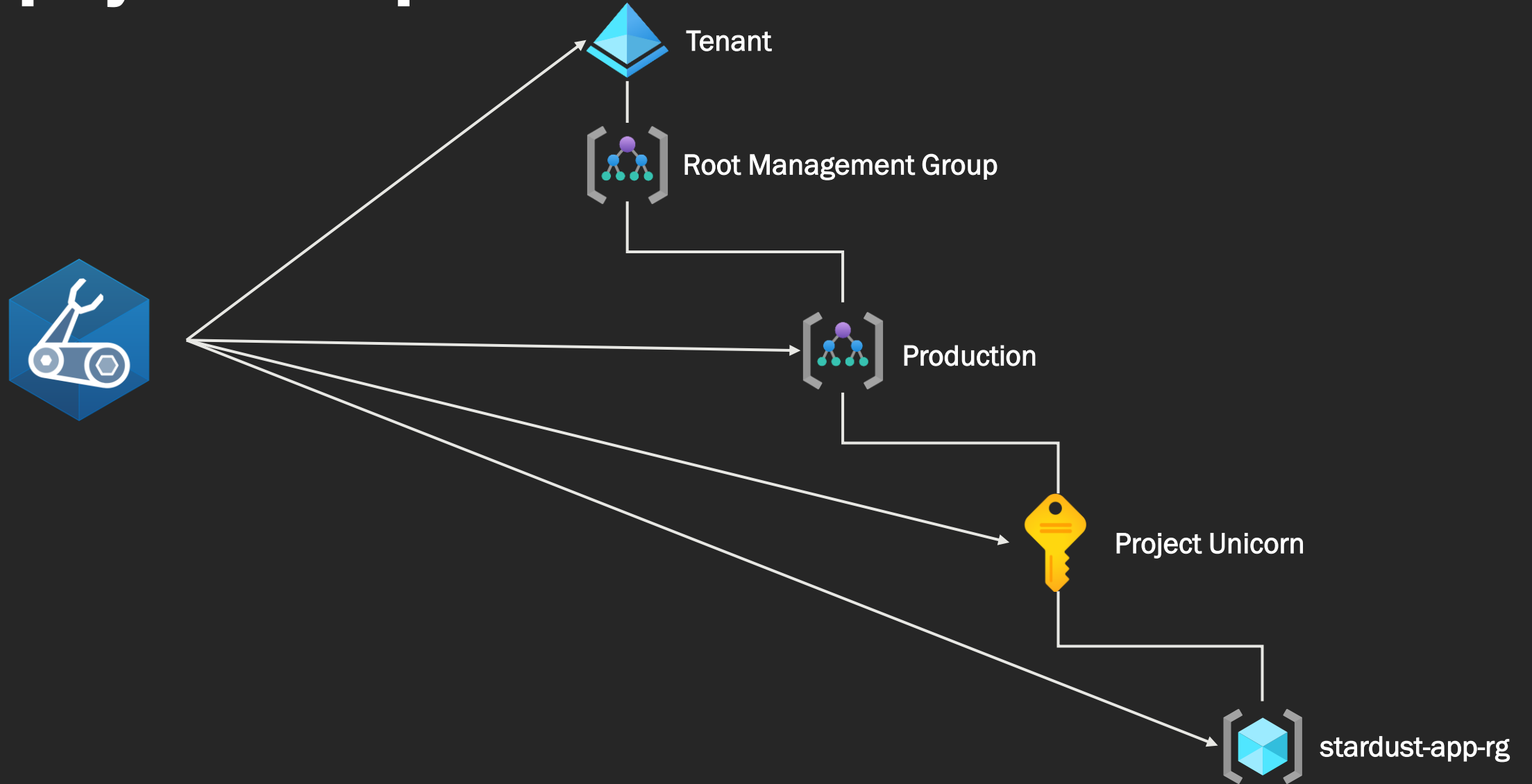
Demo:

Modules





Exercise 2: Deployment scopes



Deployment Scopes



Submit deployments to different scopes

	Scope	PowerShell	Azure CLI
	Resource Group	<code>New-AzResourceGroupDeployment</code>	<code>az deployment group create</code>
	Subscription	<code>New-AzSubscriptionDeployment</code>	<code>az deployment sub create</code>
	Management Group	<code>New-AzManagementGroupDeployment</code>	<code>az deployment mg create</code>
	Tenant	<code>New-AzTenantDeployment</code>	<code>az deployment tenant create</code>

Demo:

Scopes



Exercise 3:

Role assignments

Role assignments



Role
Assignment



Storage



Role
Assignment



Storage



Managed
Identity



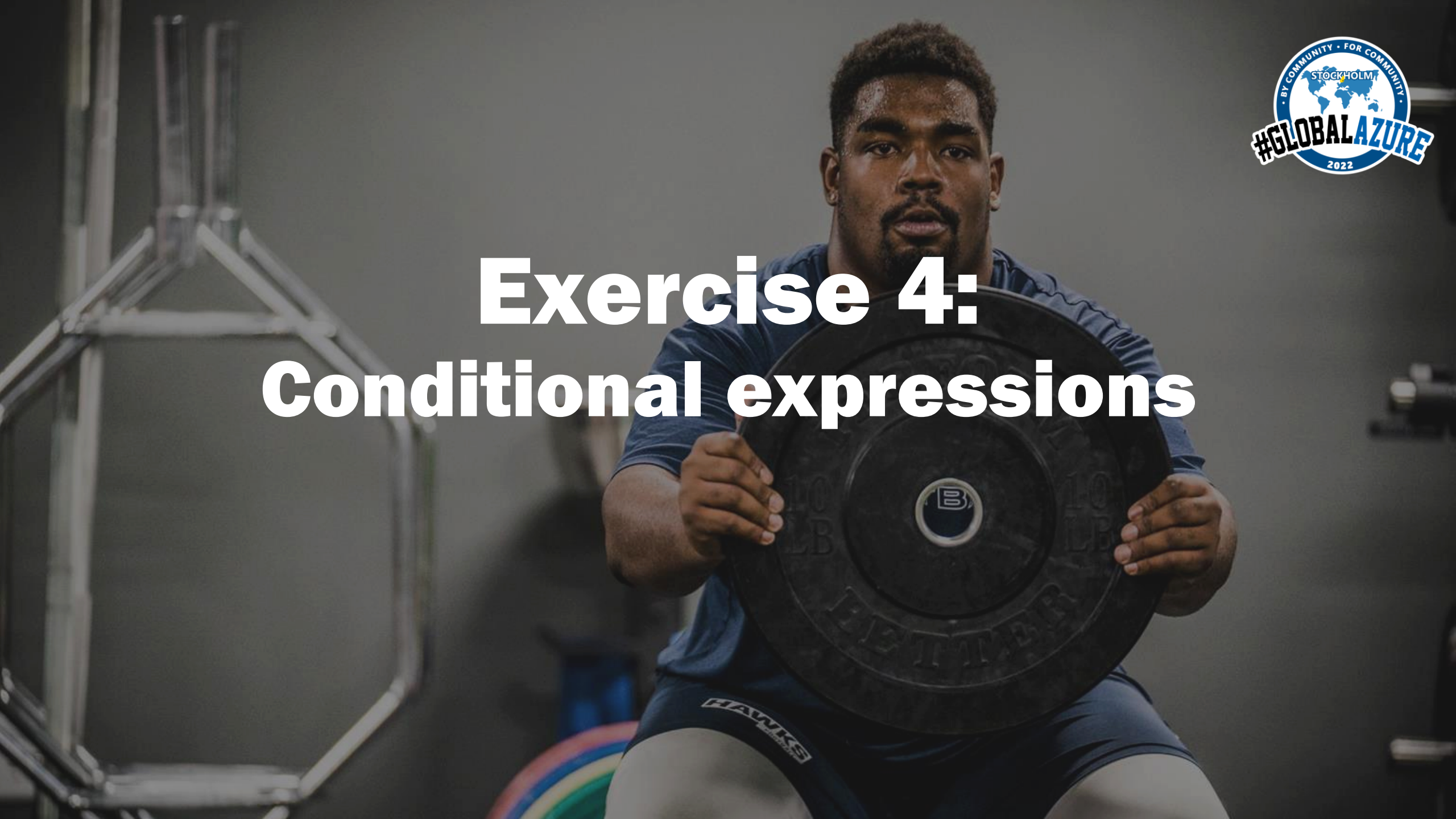
Role
Assignment

Demo:

Role Assignments

Exercise 4:

Conditional expressions



Conditional expression ? :

```
condition ? trueValue : falseValue
```

Demo:

Conditional expressions

Links:

[Bicep Repo]: <https://github.com/Azure/bicep>

[Public Modules]: <https://github.com/Azure/bicep-registry-modules>

[Docs]: <https://aka.ms/bicep>

[Learn]: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/bicep/learn-bicep>

Thank you!

Slides and templates:

<https://github.com/StefanIvemo/GlobalAzure2022>



StefanIvemo



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