Bicep – Infrastructure as Code Masterclass

Esther Barthel / Freek Berson

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Speaker
Freek Berson

Bicep, AVD & RDS enthusiast

WORTELL

- Fell in love with Project Bicep since its inception.
- Book author: ‘Getting started with Bicep’
- Microsoft MVP on RDS since 2011

“I am OK, and you are OK!”

linkedin.com/in/freekberson/

themicrosoftplatform.net/

@fberson

github.com/fberson

bit.ly/3a43iA2

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Speaker
Esther Barthel

Solutions Architect and Owner
cognition IT

- Loves Workflows, DevOps, Bicep & Scripting
- Women in Tech Mentorship advocate
- Microsoft MVP RDS/CDM since 2017

"Mental health is much more than having fun in your work!"

linkedin.com/in/ebarthel/
cognitionit.com/
@virtuEs_IT
github.com/cognitionit
YouTube Link

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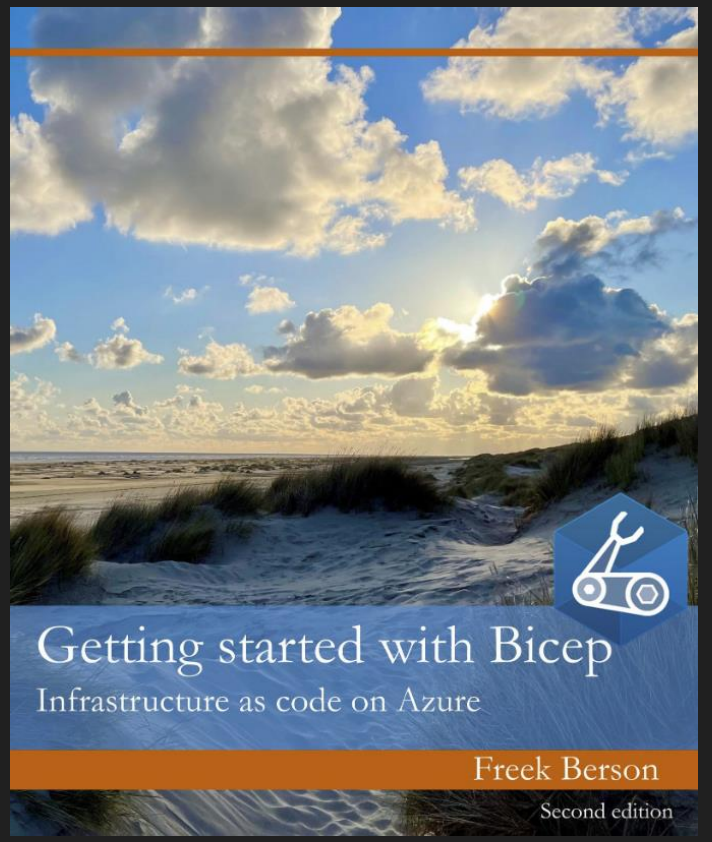
Our Bicep adventure!



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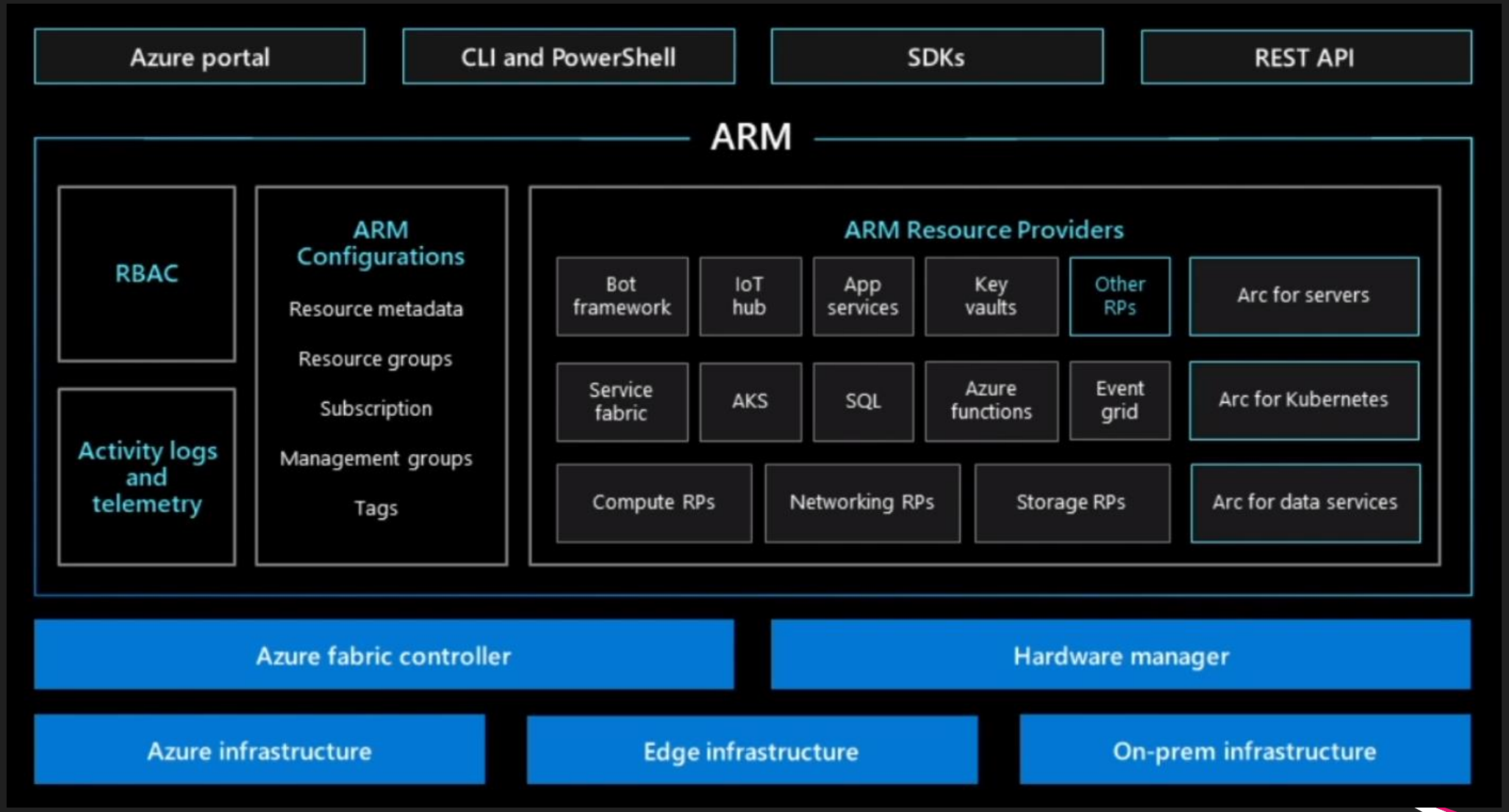
Azure Resource Manager

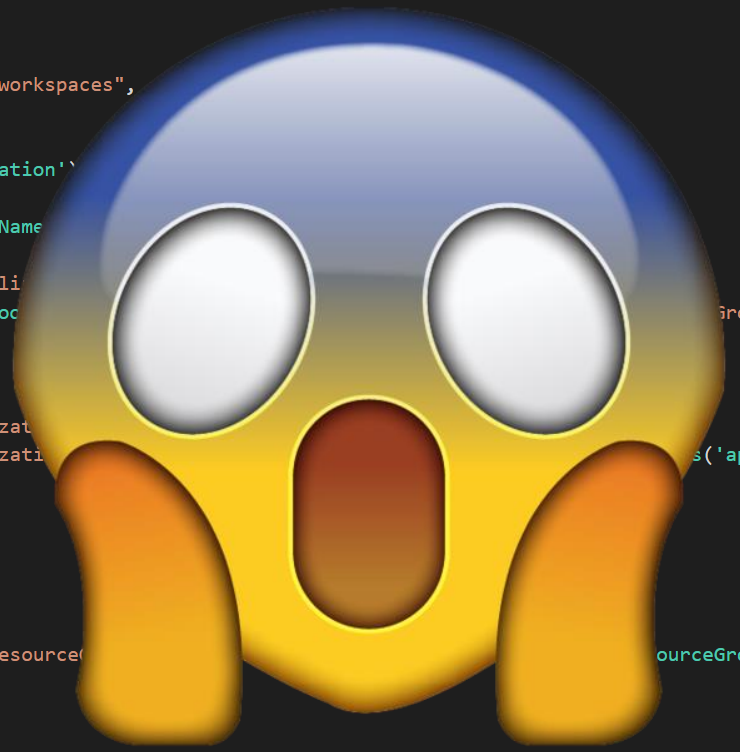


Infrastructure as Code

```
{
  "$schema": "https://schema.management.azure.com/schemas/2019-04-01
  "contentVersion": "",
  "apiProfile": "",
  "parameters": {  },
  "variables": {  },
  "functions": [  ],
  "resources": [  ],
  "outputs": {  }
}
```

ARM Template complexity

```
605                "hostPoolArmPath": "[resourceId('Microsoft.DesktopVirtualization/hostPools', format('{0}-REMOTEAPP', parameters('hostpoolName')))]"
606              },
607              "dependsOn": [
608                "[resourceId('Microsoft.DesktopVirtualization/hostPools', format('{0}-REMOTEAPP', parameters('hostpoolName')))]"
609              ]
610            },
611            {
612              "type": "Microsoft.DesktopVirtualization/workspaces",
613              "apiVersion": "2019-12-10-preview",
614              "name": "[parameters('workspaceName')]",
615              "location": "[parameters('AVDbackplanelocation'
616              "properties": {
617                "friendlyName": "[parameters('workspaceName
618                "applicationGroupReferences": [
619                  "[resourceId('Microsoft.DesktopVirtuali
620                  "[if(parameters('createRemoteAppHostpoc                                                    Groups', format('{0}-REMOTEAPP', parameters('appgroupName'))), '')]"
621                ]
622              },
623              "dependsOn": [
624                "[resourceId('Microsoft.DesktopVirtualizat
625                "[resourceId('Microsoft.DesktopVirtualizati                                                    s('appgroupName')))]"
626              ]
627            }
628          ]
629        }
630      },
631      "dependsOn": [
632        "[subscriptionResourceId('Microsoft.Resources/resource                                                    ourceGroupProdPrefix'), parameters('resourceGroupPostfix')))]"
633      ]
634    },
635    {
636      "type": "Microsoft.Resources/deployments",
637      "apiVersion": "2020-06-01",
```



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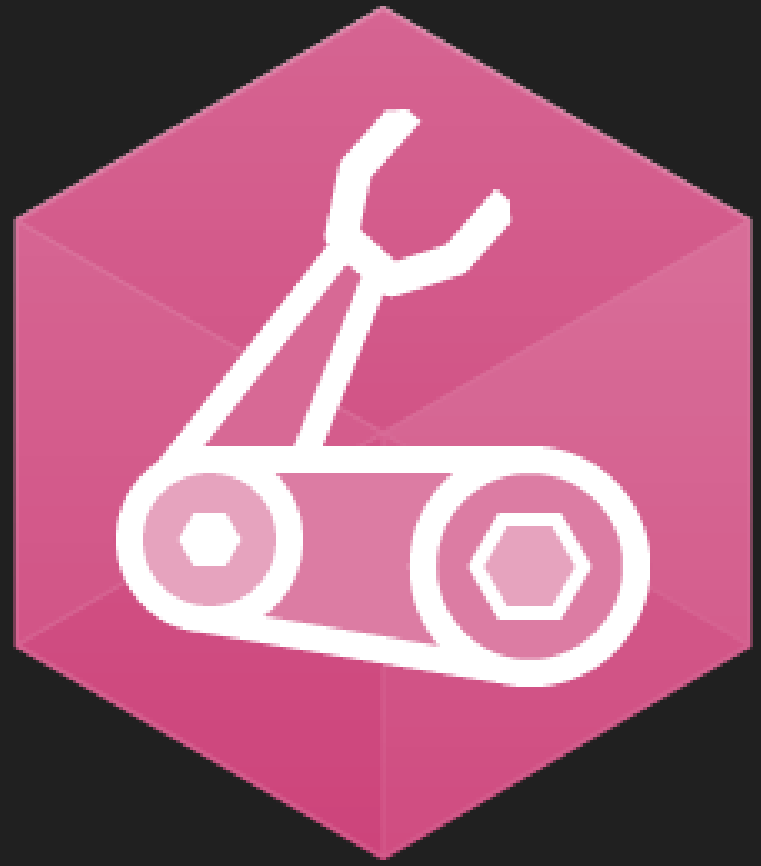
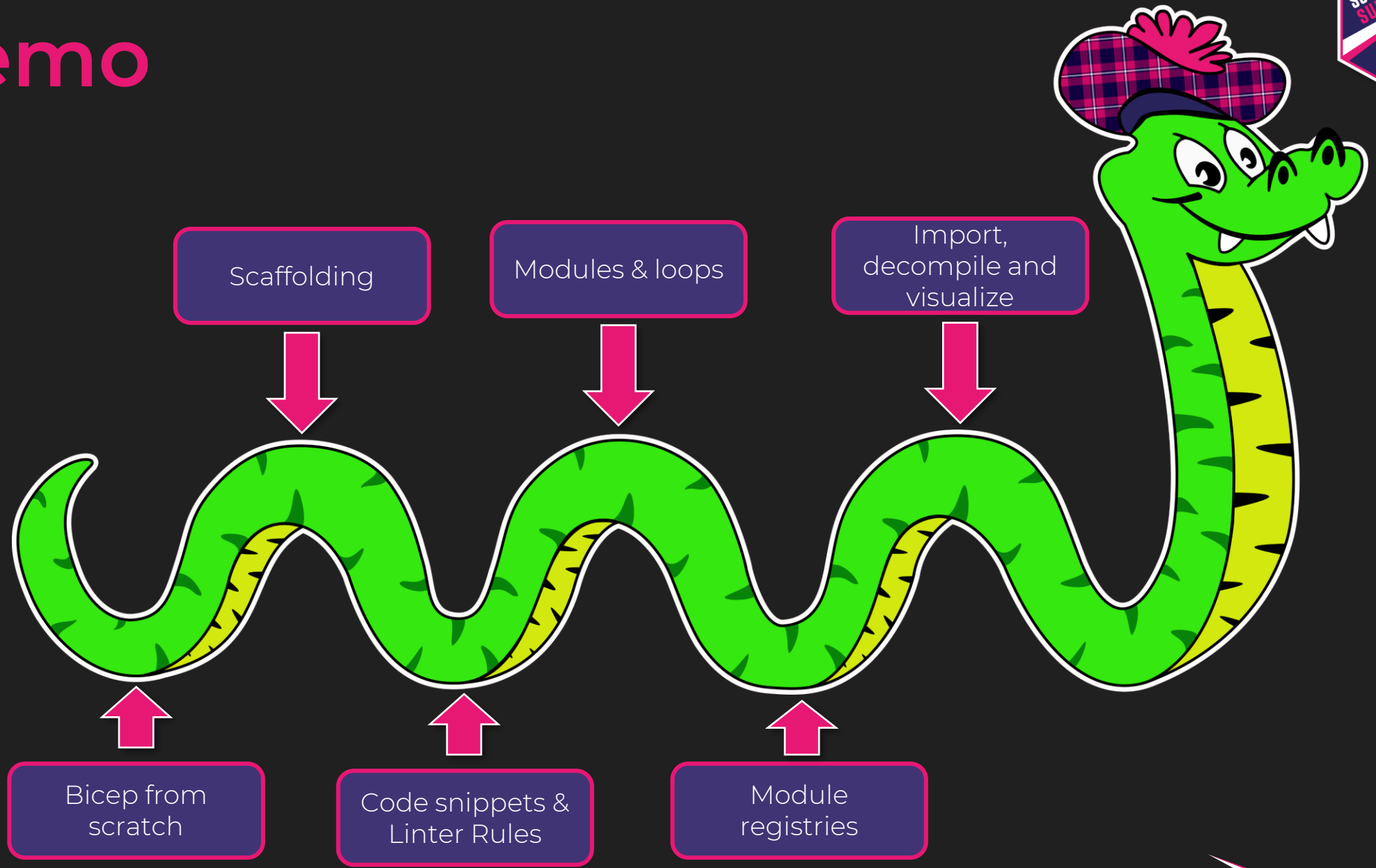
What is Bicep?

- Intuitive
- Modular
- Open Source
- Transpiles to ARM



Demo


Scaffolding
Modules & loops
Import, decompile and visualize
Bicep from scratch
Code snippets & Linter Rules
Module registries

CALL TO ACTION!

- Bicep MS Docs: Aka.ms/bicep
- Bicep Monthly Community call surveymonkey.com/r/ARMnews
- Bicep GitHub location github.com/Azure/bicep
- Bicep Learning path docs.microsoft.com/en-us/azure/azure-resource-manager/bicep/learn-bicep

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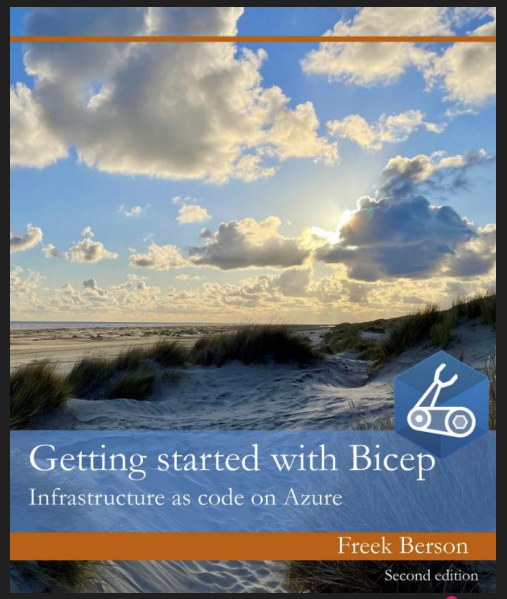

Tweet to win!

THANK YOU!

Esther Barthel / Freek Berson

@virtuEs_IT / @fberson

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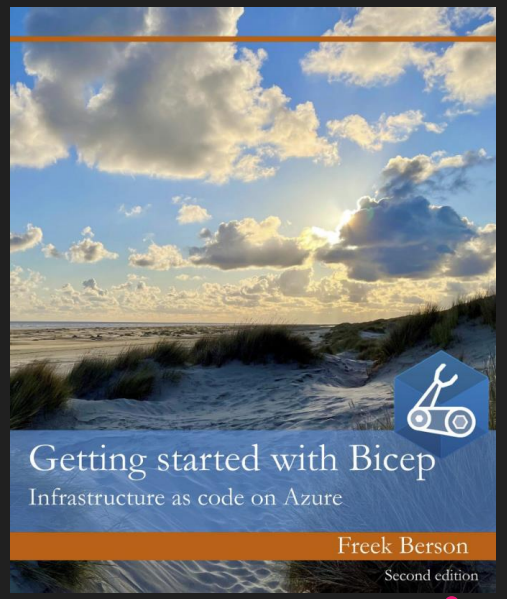

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Future releases

JUNE (end)

v0.8

`loadJsonContent()`

CDN for bicep artifact downloads

JULY (end)

v0.9

Visual Studio support

Preview of Kubernetes provider

TBD

v0.*

...

TBD

v1.0

Strict breaking change policy

Type updates separate from core updates

AAD provider

Pass resource between module

`/build` & `/decompile` APIs