

Bicep demo: Cool new (preview) features

Principal Outbound Product Manager

Alludo / Parallels

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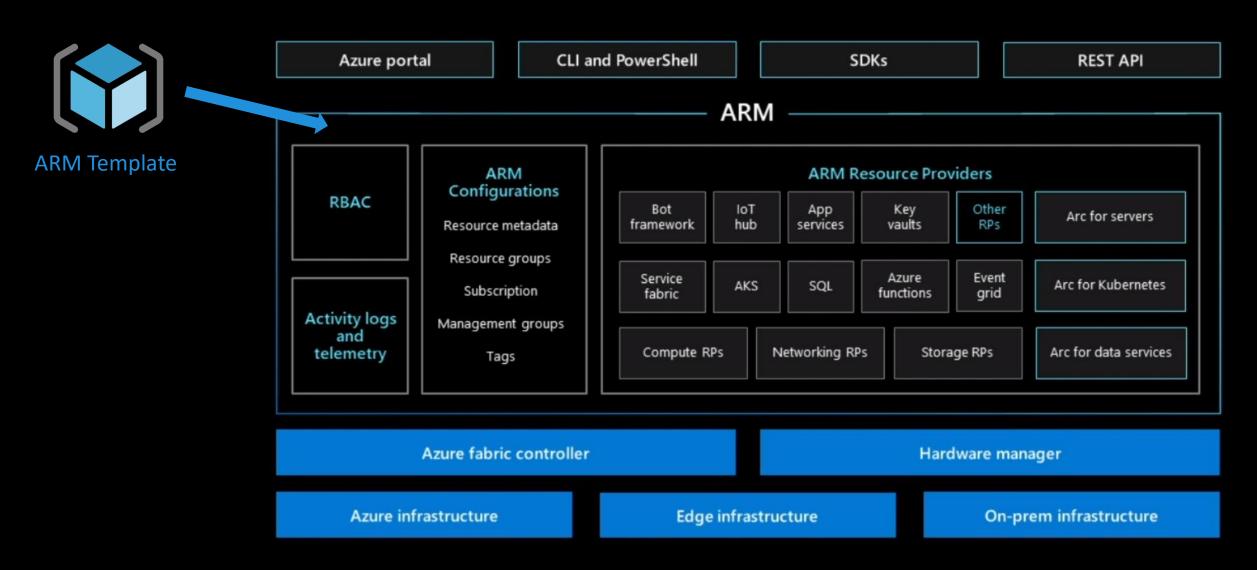
Microsoft MVP



in



Azure Resource Manager



Infrastructure as code

Template format

In its simplest structure, a template has the following elements:

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

ARM Template complexity

```
"hostPoolArmPath": "[resourceId('Microsoft.DesktopVirtualization/hostPools', format('{0}-REMOTEAPP', parameters('hostpoolName')))]"
                    "dependsOn": [
                      "[resourceId('Microsoft.DesktopVirtualization/hostPools', format('{0}-REMOTEAPP', parameters('hostpoolName')))]"
                  },
                    "type": "Microsoft.DesktopVirtualization/workspaces",
612
                    "apiVersion": "2019-12-10-preview",
                    "name": "[parameters('workspaceName')]",
614
                    "location": "[parameters('AVDbackplanelocation')]",
                    "properties": {
                      "friendlyName": "[parameters('workspaceNameFriendlyName')]",
                      "applicationGroupReferences": [
                        "[resourceId('Microsoft.DesktopVirtualization/applicationGroups', parameters('appgroupName'))]",
                        "[if(parameters('createRemoteAppHostpool'), resourceId('Microsoft.DesktopVirtualization/applicationGroups', format('{0}-REMOTEAPP', parameters('appgroupName'))), '')]"
620
                    "dependsOn": [
                      "[resourceId('Microsoft.DesktopVirtualization/applicationGroups', parameters('appgroupName'))]",
                      "[resourceId('Microsoft.DesktopVirtualization/applicationGroups', format('{0}-REMOTEAPP', parameters('appgroupName')))]"
            "dependsOn":
              "[subscriptionResourceId('Microsoft.Resources/resourceGroups', format('{0}BACKPLANE{1}', parameters('resourceGroupProdPrefix'), parameters('resourceGroupPostfix')))]"
            "type": "Microsoft.Resources/deployments",
            "apiVersion": "2020-06-01".
```

Project 'Bicep'



We're working on an open source domain specific language for ARM codenamed Bicep that will greatly simplify Azure declarative modelling: "Microsoft flexes Bicep to strengthen ARM"



infoworld.com

Microsoft flexes Bicep to strengthen ARM

Azure gets a new infrastructure as code language that can help deploy and manage complex architectures

10:23 PM · Sep 8, 2020 · TweetDeck

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What is Bicep?



"..Bicep is a <u>Domain Specific Language</u> (DSL) for deploying Azure resources declaratively. It aims to <u>drastically simplify the authoring experience</u> with a cleaner syntax and better support for modularity and code re-use. Bicep is a transparent abstraction over ARM and ARM templates.

What is Bicep?

Simple declarative language to provision infrastructure to Azure.

Intuitive

Easy to read and to author

Transpiles to ARM Templates

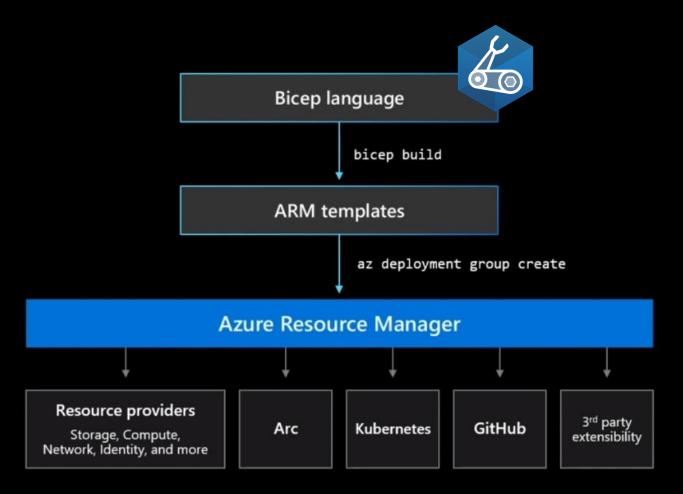
Leverage ARM template knowledge and investments

Modular

Abstract common blocks of code into reusable parts

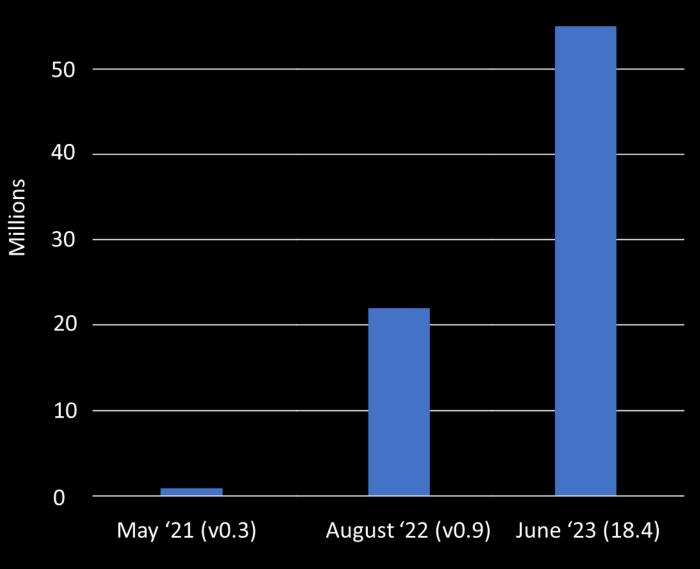
Open Source

Transparency and community



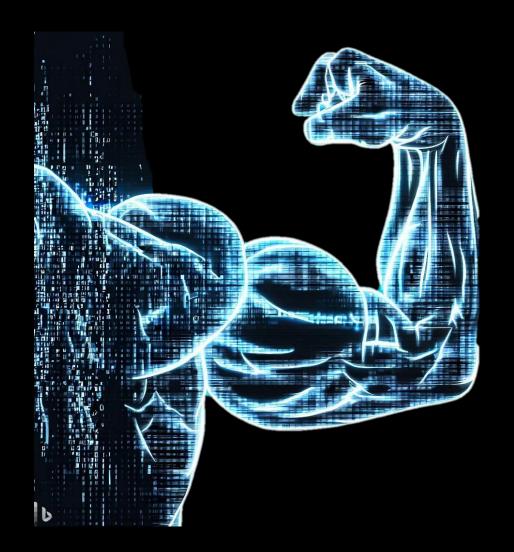
How is Bicep being adopted?

Number of resources deployed using Bicep in last 30 days



Demo: cool new (preview) features

- Bicep Parameter Files
- Opinionated Formatting
- Deployment Stacks



Call to action!

- Bicep MS Docs:
 Aka.ms/bicep
- Bicep Monthly Community call <u>surveymonkey.com/r/ARMnews</u>
- 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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