

Flex your muscles with Bicep

David Pazdera

Cloud Solution Architect

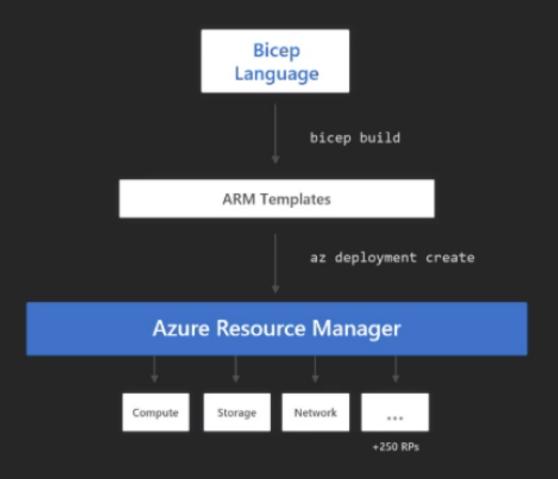




What is Project Bicep?

Declarative language for describing and deploying Azure resources.

Abstraction layer, compiles into an ARM Template.



Goals

Reduce current pain

Lower the barrier to entry

Transparent Abstraction – Leverage all the benefits of the platform

Modular – Abstract common blocks of config into reusable elements

Non-Goals

One language to rule them all

General purpose language to meet any need

Invent new technology

TODAY!

v0.2

Validation of all Azure resource types

IntelliSense

Modules

Code formatting

Scopes

Experimental language, not ready for production yet!

Limitations

copy (loops)

condition (property)

single-line objects and arrays

Azure support plans

Demo Bicep Playground

https://aka.ms/bicepdemo



Your PC ran into a problem that it couldn handle, and now it needs to restart.

Demo Azure Cloud Shell

https://shell.azure.com



Your PC ran into a problem that it couldn handle, and now it needs to restart.

Demo

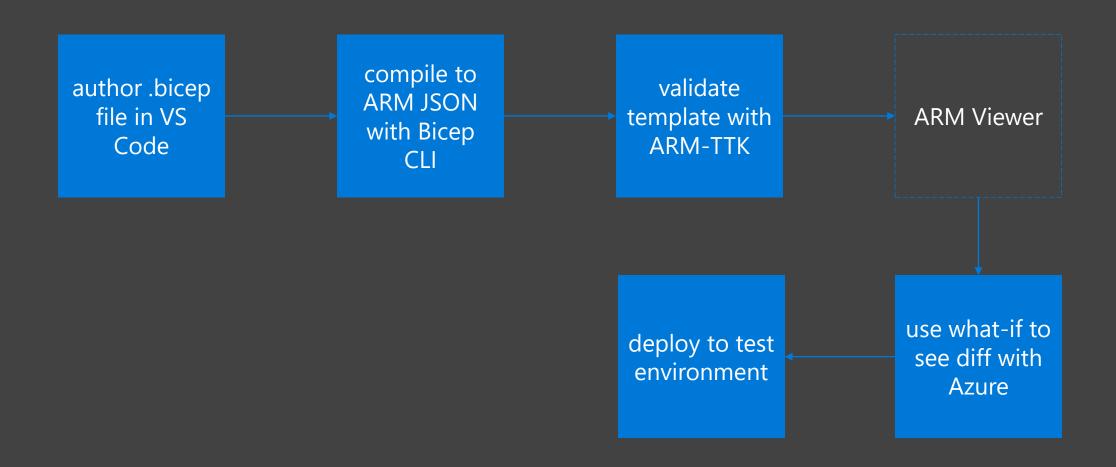
Setup your dev environment



Your PC ran into a problem that it couldn handle, and now it needs to restart.

https://github.com/Azure/bicep/blob/main/docs/installing.md

Workflow



Demo Inner loop



Your PC ran into a problem that it couldn't handle, and now it needs to restart.

https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/test-toolkit

https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/template-deploy-what-if

Demo Code reuse



Your PC ran into a problem that it couldn handle, and now it needs to restart.

https://github.com/Azure/bicep/blob/main/docs/spec/modules.md

https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/template-specs

Demo

Deployment using GitHub workflows



Your PC ran into a problem that it couldn handle, and now it needs to restart.

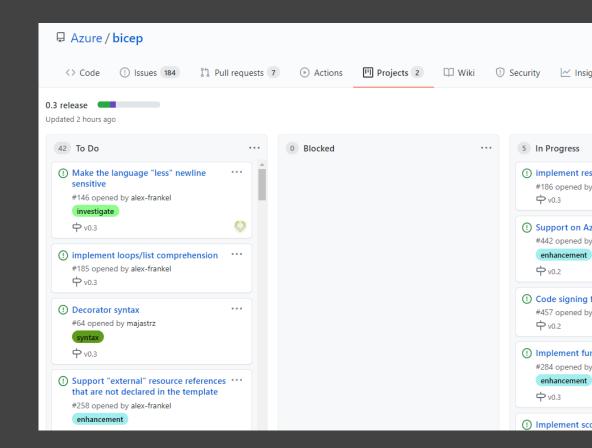
https://azurecloudai.blog/2020/09/03/github-action-for-project-bicep-arm-dsl/

Credit: Sebastian Gräf, @segraef

Roadmap

v0.3 and beyond (Jan/Feb 2021)

- parity with ARM templates
- loops & conditional resources
- deploy .bicep files from Az
 CLI and Az PowerShell
- supported by CSS



Resources

github.com/azure/bicep

follow @biceplang on Twitter for updates and info about community sessions



