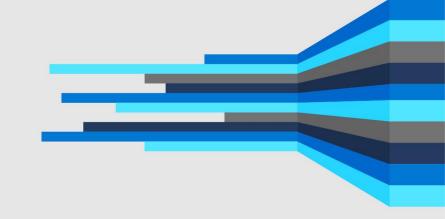


Azure Bicep

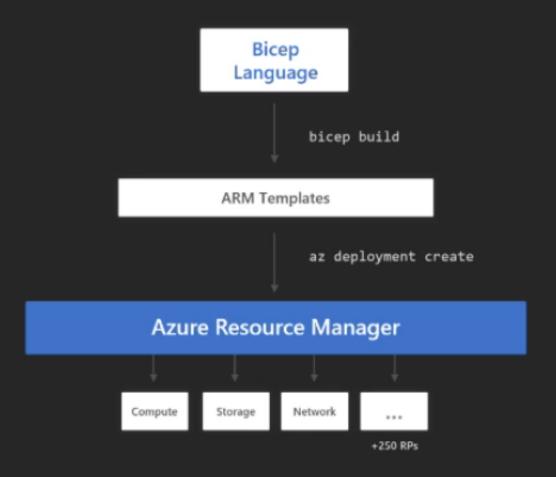
Infra as Code in Azure



What is Project Bicep?

Declarative language for describing and deploying Azure resources.

Abstraction layer, compiles into an ARM Template.



Benefits of Azure Bicep

Simple declarative files for creating Azure resources in a reliable, repeatable and auditable way.



Simpler Syntax. No JSON noise

Define Azure resources using a simple language to learn, read and understand.



Declarative Syntax

Declare how the resources should be and Azure Resource Manager "makes it so".



Modularity

Modules to break your bicep code into manageable chunks. Public and Private module registries



Built for tool-ability

First class authoring experience in VSCode. Rich type-safety, intellisense and validation.



Convert existing templates

Easy conversion of ARM Templates to Bicep

Bicep vs other tools



Day zero support for all resource types & API versions

Bicep templates are generated based on resource schema. All preview and GA services can be created using Bicep from Day Zero.



No state files

No state management. Can query the state directly from Azure.



Deep integration with Azure Governance Services

Azure Policy remediation for non-compliant resources are done via Bicep. TemplateSpecs can be a source for modules. Bicep Landing Zones and Blueprints



100% free and open source

No paying for 'premium' capabilities and 100% supported by Microsoft support



Automate Portal actions

Use the Azure Portal as Bicep template generator. Export a deployable Bicep file for any portal deployment actions

Demo Bicep Playground

https://aka.ms/bicepdemo



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

Demo

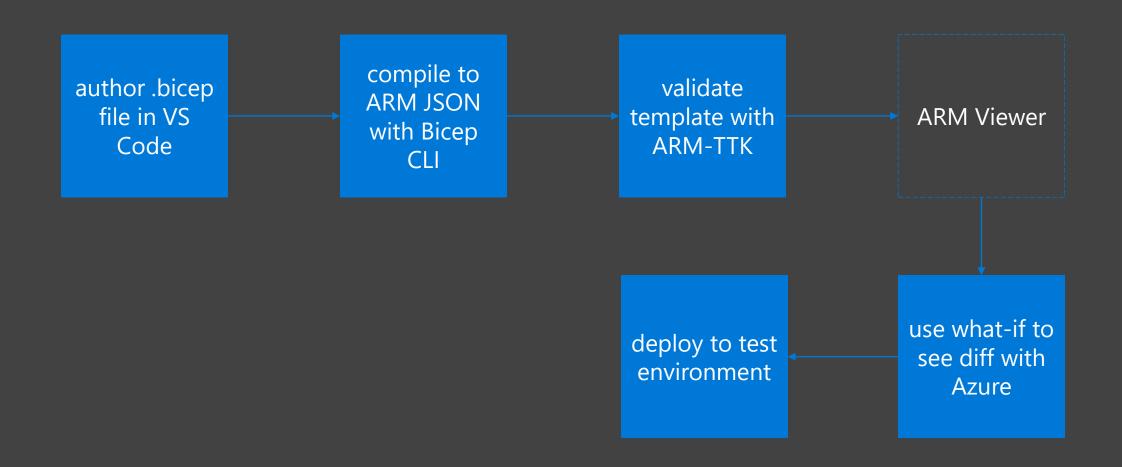
Setup your dev environment



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



Roadmap

Azure Deployments

ARM + Bicep

Module Registry

Running infra with verified templates and community modules. Private modules to share across your organization.

Extensibility

Configure data plane operations and non-Azure services (K8s, GitHub, AAD, ServiceNow)

Bicep Testing Framework & Linter

Find and fix misconfigurations earlier to prevent risky deployments

Continued Language Enhancements includeFile () support, etc.

Stacks
Improve deployment lifecycle management (rollback, delete, RG expiry)

TemplateSpecs: Staging and Sharing of Templates

ARM Templates that can package, reused, and shared as a catalog [Public Preview, GA in May '21]

Compliance Blueprints

One-click deployment solutions to help meet regulations (12 published today ex: ISO, FedRamp, NIST etc.)

Safe deployment guardrails

Managing change automation so that all code and configuration updates go through well-defined stages and test gates

Public roadmap: github.com/Azure/bicep/projects

Try Azure Bicep today!

github.com/azure/bicep