

FestiveTechCalendar 2021



<https://festivetechcalendar.com>

<https://theCloudMarathoner.com>  

All you need to know about Azure Bicep configurations

- Elkhan loves to help Azure community and people to learn, use and benefit from Microsoft Azure and grow their career





Elkhan Yusubov
Blogger | Speaker | Mentor
Cloud Architect

Elkhan is a principal cloud architect and 14 times MSFT MCT with experience in cloud solutions, enterprise healthcare systems and healthcare data, and API standards (HL7 FHIR, EDI X12).

He is an active MCT, a Microsoft Tech Community Contributor, Cloud Lunch and Learn Speaker and Team Member, and Azure SME (Architecture, DevOps, Security).

He is a frequent speaker at tech meetups and has volunteered for Give Camps, Azure Data Fest, SQL Saturday, Azure community and Global Azure events.

 @ElYusubov

<https://theCloudMarathoner.com>

 ElkhanYusubov

What we will cover

- 1 What is Azure Bicep language
- 2 Why learn Bicep language
- 3 Bicep configuration file
- 4 Best practices with Bicep
- 5 Demos

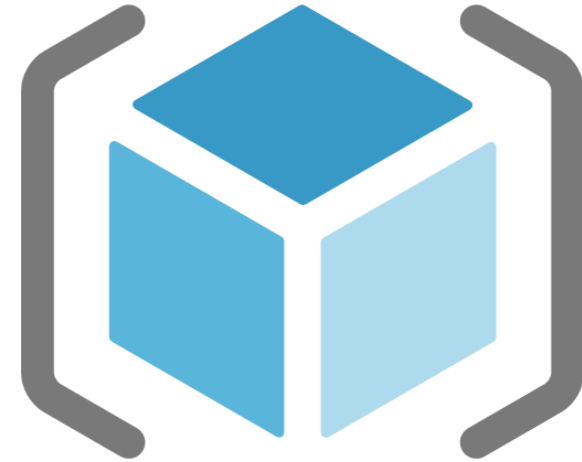
What is Azure Bicep?

- DSL for deploying Azure resources
- Transparent abstraction over ARM and ARM templates
- Simple way to author Azure resources
- Transpiled to standard ARM Template JSON files



Why Bicep language?

- Easy to understand and maintain
- Day one support
- Transparent abstraction
- Awesome tooling in VS Code
- Clean code syntax
- Code re-use and modularity
- Deep integration with Azure
- Preflight validation
- No state management
- Production support



Bicep configuration file

- What is config file ?
- Why you need it ?
- How to add one ?
- What are the default configurations ?



Azure Bicep best practices



Demos

```
2-deploy-param-storage.bicep 1, M  {} bicepconfig.json X
{} bicepconfig.json > {} analyzers > {} core > {} rules > {} secure-parameter-default
You, 3 weeks ago | 1 author (You)
1  {
2    "analyzers": {
3      "core": {
4        "enabled": true,
5        "verbose": true,
6        "rules": {
7          "no-hardcoded-env-urls": {
8            "level": "warning"
9          },
10         "no-unused-params": {
11           "level": "warning"
12         },
13         "no-unused-vars": {
14           "level": "error"
15         },
16         "prefer-interpolation": {
17           "level": "warning"
18         },
19         "secure-parameter-default": {
20           "level": "error"
21         },
22         "simplify-interpolation": {
23           "level": "warning"
24         }
25       }
26     }
27   }
```

```
9  @description('Azure region to deploy all resources')
10 @allowed([
11   'eastus'
12   'eastus2'
13   'westus'
14   'westus2'
15 ])
16 param environment: string
17 param environment string
18 resource myResourceGroup 'Microsoft.Resources/resourceGroups@2021-04-01'
19
20
```

Parameter "environment" is declared but never used. bicep core(

View Problem No quick fixes available

You, a minute ago • Uncommitted changes


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What is next?

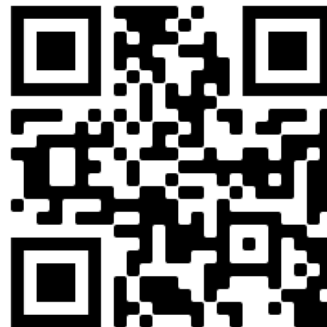
Learn Bicep – GitHub



Let's Connect - LinkedIn 



Bicep project on GitHub





Thank you