




What is the Azure Dev CLI (AZD)?

How Can You Use It?

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What is the Azure Dev CLI (AZD)?

“Is an open-source tool that accelerates the time it takes for you to get your application from local development environment to Azure”

- What about the Azure CLI (AZ)?
- Deploy a complete application template with 3 commands:
 - `azd auth login`
 - `azd init -template <template name>`
 - `azd up`

Demo

```
azd init -t Azure-  
Samples/todo-csharp-sql
```



Template Detail

- > .azdo
- > .azure
- > .devcontainer
- > .github
- > .vscode
- > assets
- > infra
- > src
- > tests
- 📁 .gitattributes
- 📁 .gitignore
- ! azure.yaml
- 🔒 LICENSE
- ☰ NOTICE.txt
- ! openapi.yaml
- 📄 OPTIONAL_FEATURES.md
- 📄 README.md

Commands

Configure and develop your app

- auth : Authenticate with Azure.
- config : Manage azd configurations (ex: default Azure subscription, location).
- hooks : Develop, test and run hooks for an application. (Beta)
- init : Initialize a new application.
- restore : Restores the application's dependencies. (Beta)
- template : Find and view template details. (Beta)

Manage Azure resources and app deployments

- deploy : Deploy the application's code to Azure.
- down : Delete Azure resources for an application.
- env : Manage environments.
- package : Packages the application's code to be deployed to Azure. (Beta)
- provision : Provision the Azure resources for an application.
- up : Provision Azure resources, and deploy your project with a single command.

Monitor, test and release your app

- monitor : Monitor a deployed application. (Beta)
- pipeline : Manage and configure your deployment pipelines. (Beta)
- show : Display information about your app and its resources.

About, help and upgrade

- version : Print the version number of Azure Developer CLI.

How can you use AZD?

#1

You can use it to get easily get reference application up and running quickly

[Learning Tool]



Finding Templates

- Awesome-azd (<https://azure.github.io/awesome-azd/>)
- Github topic (<https://github.com/topics/azd-templates>)
- azd template list
- Register a custom template source:
`azd template source add --type url --location <url>`



Demo

Find a sample template

How can you use AZD?

#2

You can use it with your own applications

[Developer Tool]

Supported Languages and Environments

Language	Feature Stage
Node.js	Stable
Python	Stable
.NET	Stable
Java	Stable

Azure compute service	Feature Stage
Azure App Service	Stable
Azure Static Web Apps	Stable
Azure Container Apps	Beta
Azure Functions	Stable
Azure Kubernetes Service	Beta (only for projects deployable via <code>kubectl apply -f</code>)
Azure Spring Apps	Beta

Demo

Create a template



Resources

Documentation

- <https://learn.microsoft.com/en-us/azure/developer/azure-developer-cli/>

Reference

- <https://learn.microsoft.com/en-us/azure/developer/azure-developer-cli/reference>

MS Learn Modules

- <https://learn.microsoft.com/en-us/training/paths/azure-developer-cli/>

Github

- <https://github.com/azure/azure-dev/>

Team Blog

- <https://devblogs.microsoft.com/azure-sdk/tag/azure-developer-cli/>

Community Office Hours

- <https://www.youtube.com/watch?v=uhFXxHnhJts&list=PLI7iePan8aH4gg8wHCTdI6oDgbOen-n5m>

Additional Resources

Deploy a .NET Aspire project to Azure Container Apps using the Azure Developer CLI (in-depth guide)

- <https://learn.microsoft.com/en-us/dotnet/aspire/deployment/azure/aca-deployment-azd-in-depth?tabs=windows>

Azure Verified Modules

- <https://azure.github.io/Azure-Verified-Modules/>

My AZD YouTube Playlist

- https://www.youtube.com/watch?v=mIEYM2U6fIk&list=PL5rXtjltSlmRXQiR02pZvj__lsgn1q34Y

