

Deploying Azure Functions



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Overview



Running Functions in Azure

Creating Function Apps

- Azure CLI
- ARM Template

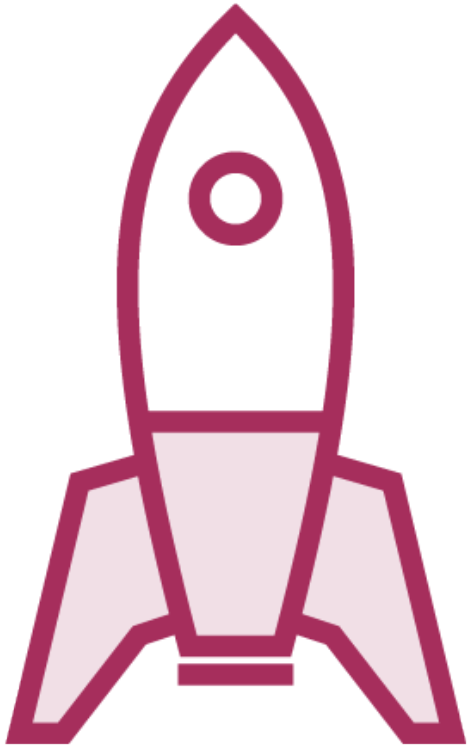
Publishing Functions

- Visual Studio
- Azure Functions Core Tools

Hosting Functions in Docker



Deploying Azure Functions



Infrastructure

- App Service Plan
- Storage Account
- Application Insights
- Function App

Creating Infrastructure

- Azure Portal
- Visual Studio

Infrastructure as Code

- Azure CLI
- ARM templates



Publishing Function Code



Manual publishing

- Azure Portal
- Visual Studio

Automated publishing

- Publish zip with Kudu API
- “Run from package”
- Git repository
- Azure Functions Core Tools
- Azure CLI
- Azure DevOps
- Cake

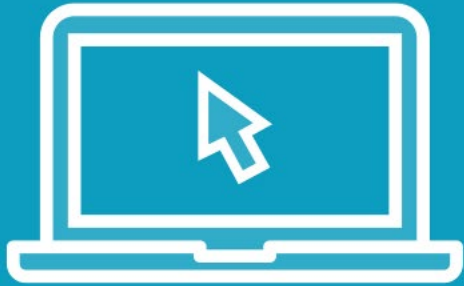
```
func azure functionapp  
publish
```



az functionapp deployment
source config-zip



Demo

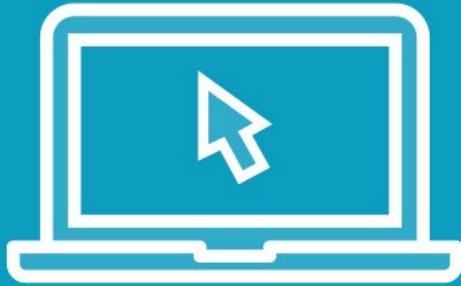


Creating Function Apps with Azure CLI

- Resource Group
- Function App
- Storage Account
- Application Insights



Demo



ARM Templates

- JSON document defining Azure resources
- Customize settings
- Template parameters
- Idempotent



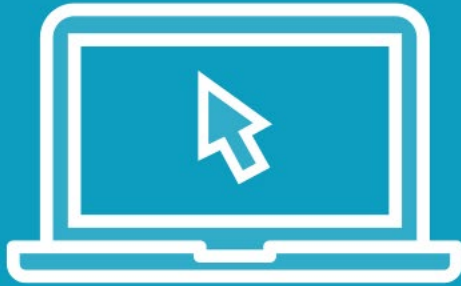
Demo



Publishing from Visual Studio



Demo



Command line publishing

- Azure Functions Core Tools
 - `func azure functionapp publish`
- Azure CLI
 - `az functionapp deployment source config-zip`
- “Run from package”



Demo



Deploy Azure Functions in a Docker container



Azure Functions in Docker Containers



Run on any Docker host

- Azure (e.g. AKS)
- Other cloud providers (e.g. AWS, GCP)
- On-premise data center
- Development laptop

Integrating with Azure

- Azure Storage Accounts
- Application Insights

Function authorization keys

- Not accessible
- Use alternative security mechanism



Summary



Creating Function Apps

- Azure CLI
- ARM Templates

Publishing Function Code

- Visual Studio
- Azure Functions Core Tools
- Azure CLI

Run from Package

- WEBSITE_RUN_FROM_PACKAGE
- D:\home\data\SitePackages
- packagename.txt



```
func azure functionapp  
publish
```



az functionapp deployment
source config-zip



Next Up...

Working in Production

