

Azure Containers Apps

Introduction
and Overview



- Introduction to Azure Container Apps
- Benefits
- Key Concepts
- Setting up Your Environment
- Creating Your First Container App
- Best Practices

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Introduction to Azure Container Apps

- Fully managed serverless container service
- Ideal for microservices, APIs, background processing
- Built on Kubernetes and KEDA



Benefits

- Serverless scalability
- No need to manage Kubernetes
- Integrated with Azure ecosystem
- Fast deployment and revisions





Key Concepts

- Revisions
- Ingress
- Scaling rules (KEDA-based)
- Managed environment
- Container App vs. Container Environment

Setting Up Your Environment

Required tools: Azure CLI

- Azure CLI

<https://learn.microsoft.com/en-us/cli/azure/install-azure-cli?view=azure-cli-latest>

Register Microsoft.App namespace

```
az provider register --namespace Microsoft.App
```



Create a Resource Group

```
az group create --name containerapp-rg --location eastus
```

Create Container App Environment

```
az containerapp env create  
  --name containerapp-env  
  --resource-group containerapp-rg  
  --location eastus
```


Creating Your First Container App

```
az containerapp create  
  --name containerapp  
  --resource-group containerapp-rg  
  --environment containerapp-env  
  --image mycontainerregistry.azurecr.io/web-image  
  --target-port 80  
  --ingress external
```

Search

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Stop

Refresh

Delete

Send us your feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

> Application

> Settings

> Networking

> Security

> Monitoring

^ Essentials

Resource group (move)
[containerapp1-rg](#)

Status
Running

Location (move)
East US

Subscription (move)
[MyExamples](#)

Subscription ID
8081dd9f-6c03-468e-b0b4-f9b1b26bb738

NET 4

JSON View

Application Url
<https://containerapp1.happyflower-9ea42e8d.eastus.azurecontainer...>

Container Apps Environment
[containerapp1-env](#)

Environment type

Workload profiles

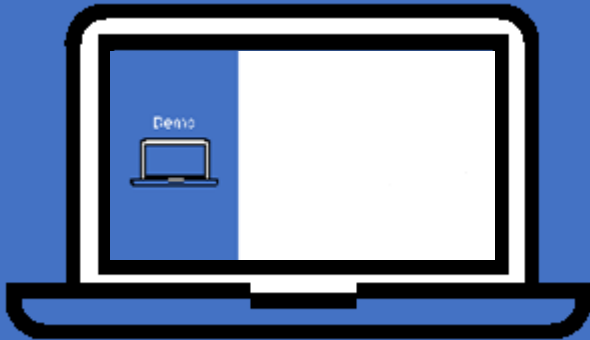
Development stack

Generic (manage)

Access App using the URL from the Application Url

Accessing the App

Demo



Deploy Container App

<https://learn.microsoft.com/en-us/azure/container-apps/quickstart-portal>



Best Practices

- Use ACR for private images
- Enable logging and monitoring
- Set autoscale thresholds carefully
- Keep container size minimal

Summary

- Azure Container Apps is a powerful serverless solution for running containerized applications without the complexity of managing infrastructure.
- You've learned the benefits, foundational concepts, and how to deploy your first app using Azure CLI.
- Up next: Dive into advanced capabilities like scaling strategies, networking, secret handling, and integrations.



Resources

- Azure Container Apps documentation
<https://learn.microsoft.com/en-us/azure/container-apps/>
- Quickstart: Deploy your first container app using the Azure portal
<https://learn.microsoft.com/en-us/azure/container-apps/quickstart-portal>