

## Implement Azure Container Instances

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### Task 1: Deploy an Azure Container Instance using a Docker image.

Container instances:

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## Create container instance

Azure Container Instances (ACI) allows you to quickly and easily run containers on Azure without managing servers or having to learn new tools. ACI offers per-second billing to minimize the cost of running containers on the cloud.  
[Learn more about Azure Container Instances](#)

### Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* ⓘ P9-Real Hands-On Labs ▼

Resource group \* ⓘ 1-cb4223b5-playground-sandbox ▼  
[Create new](#)

### Container details

Container name \* ⓘ az104-c1 ✓

Region \* ⓘ (US) East US ▼

Availability zones (Preview) ⓘ None ▼

SKU Standard ▼

Image source \* ⓘ  
☒ Quickstart images  
☐ Azure Container Registry  
☐ Other registry

Run with Azure Spot discount ⓘ ☐  
**i** Spot containers are not available in the selected region. [Learn more](#)

Image \* ⓘ mcr.microsoft.com/azuredocs/aci-helloworld:latest (Linux) ▼

Size \* ⓘ 1 vcpu, 1.5 GiB memory, 0 gpus  
[Change size](#)

Figure 1. Creating container instance.

# Create container instance ...

Basics   **Networking**   Monitoring   Advanced   Tags   Review + create

Choose between three networking options for your container instance:

- **'Public'** will create a public IP address for your container instance.
- **'Private'** will allow you to choose a new or existing virtual network for your container instance.
- **'None'** will not create either a public IP or virtual network. You will still be able to access your container logs using the command line.

Networking type   ☒ Public   ☐ Private   ☐ None

DNS name label ⓘ   

vladuslav34 ✓

DNS name label scope reuse \* ⓘ   

Tenant ▾

Ports ⓘ

Ports	Ports protocol	
80	TCP	🗑
<input type="text"/>	<input type="text" value="⌵"/>	

Figure 2. Networking.

# Create container instance ...

Basics   Networking   **Monitoring**   Advanced   Tags   Review + create

Configure monitoring options for your container instance.

## Insights

Enable container instance logs   ☐

Figure 3. Monitoring.

## Create container instance ...

✓ Validation passed

Basics   Networking   Monitoring   Advanced   Tags   Review + create

### Basics

Subscription	P9-Real Hands-On Labs
Resource group	1-cb4223b5-playground-sandbox
Region	East US
Container name	az104-c1
SKU	Standard
Image type	Public
Image	mcr.microsoft.com/azuredocs/aci-helloworld:latest
OS type	Linux
Memory (GiB)	1.5
Number of CPU cores	1
GPU type (preview)	None
GPU count	0

### Networking

Networking type	Public
Ports	80 (TCP)
DNS name label	vladuslav34
DNS name label scope reuse	Tenant

### Monitoring

Enable container instance logs	Off
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### Advanced

*Figure 4. Review.*

## Task 2: Test and verify deployment of an Azure Container Instance.

Status:

**az104-c1** Container instances

Search

Start Restart Stop Delete Refresh

**Overview**

Activity log

Access control (IAM)

Tags

Resource visualizer

Settings

Monitoring

Automation

Please be aware that Docker Hub has recently introduced a pull rate li

**Essentials**

Resource group (move) : [1-cb4223b5-playground-sandbox](#)

Status : Running

Location : East US

Subscription (move) : [P9-Real Hands-On Labs](#)

Subscription ID : 28e1e42a-4438-4c30-9a5f-7d7b488fd883

Tags (edit) : [Add tags](#)

Figure 5. Status of container instances.

Welcome to Azure Container Instances!

Not Secure vladuslav34.b8g9cwfeg9ebdnap.eastus.azurecontainer.io

Cloud icon with an upward arrow and a server rack icon.

Figure 6. Instances in browser.

**az104-c1** Containers

Search

Refresh Give feedback

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Settings

Containers

Identity

Properties

Locks

Monitoring

Automation

Help

1 container and 0 init containers

Name	Image	State	Previous state	Start time	Restart count
az104-c1	mcr.microsoft.com/azuredocs/aci-helloworld:latest	Running	-	2025-03-19T20:41:16.651Z	0

Events Properties Logs Connect

To troubleshoot your container further, please [navigate to Logs](#). [Learn more](#)

```

listening on port 80
::ffff:10.92.0.4 - [19/Mar/2025:20:42:42 +0000] "GET / HTTP/1.1" 200 1696 "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:136.0) Gecko/20100101 Firefox/136.0"
::ffff:10.92.0.5 - [19/Mar/2025:20:42:42 +0000] "GET / HTTP/1.1" 200 1696 "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:136.0) Gecko/20100101 Firefox/136.0"
::ffff:10.92.0.5 - [19/Mar/2025:20:42:43 +0000] "GET /favicon.ico HTTP/1.1" 404 150 "http://vladuslav34.b8g9cwfeg9ebdnap.eastus.azurecontainer.io/" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:136.0) Gecko/20100101 Firefox/136.0"
::ffff:10.92.0.5 - [19/Mar/2025:20:43:45 +0000] "GET / HTTP/1.1" 304 - "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:136.0) Gecko/20100101 Firefox/136.0"
::ffff:10.92.0.5 - [19/Mar/2025:20:42:46 +0000] "GET / HTTP/1.1" 304 - "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:136.0) Gecko/20100101 Firefox/136.0"
::ffff:10.92.0.4 - [19/Mar/2025:20:43:19 +0000] "GET / HTTP/1.1" 200 1696 "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:136.0) Gecko/20100101 Firefox/136.0"
::ffff:10.92.0.4 - [19/Mar/2025:20:43:19 +0000] "GET /favicon.ico HTTP/1.1" 404 150 "http://vladuslav34.b8g9cwfeg9ebdnap.eastus.azurecontainer.io/" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:136.0) Gecko/20100101 Firefox/136.0"
::ffff:10.92.0.4 - [19/Mar/2025:20:43:19 +0000] "GET / HTTP/1.1" 304 - "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:136.0) Gecko/20100101 Firefox/136.0"
::ffff:10.92.0.4 - [19/Mar/2025:20:43:20 +0000] "GET / HTTP/1.1" 304 - "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:136.0) Gecko/20100101 Firefox/136.0"
::ffff:10.92.0.4 - [19/Mar/2025:20:43:21 +0000] "GET / HTTP/1.1" 304 - "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:136.0) Gecko/20100101 Firefox/136.0"
::ffff:10.92.0.4 - [19/Mar/2025:20:43:22 +0000] "GET / HTTP/1.1" 304 - "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:136.0) Gecko/20100101 Firefox/136.0"

```

Figure 7. Container.