

INTRODUCTION TO CLOUD COMPUTING

Lab Task 05 (B) (Implement Azure Container Instances)

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

- Creating an Azure Container Instance:

The screenshot shows the 'Create container instance' wizard in the Microsoft Azure portal. The user is on the 'Basics' step. They have selected 'Subscription' as 'Azure for Students' and 'Resource group' as '(New) az104-rg9'. In the 'Container details' section, the 'Container name' is 'az104-c1', 'Region' is '(Asia Pacific) East Asia', 'Availability zones (Preview)' is 'None', and 'SKU' is 'Standard'. Under 'Image source', they chose 'Quickstart images' and selected 'mcr.microsoft.com/azuredocs/aci-helloworld:latest (Linux)'. At the bottom, there are buttons for 'Review + create' and 'Next : Networking >'.

- Networking tab showing DNS name label configuration:

The screenshot shows the 'Networking' step of the 'Create container instance' wizard. The 'Networking' tab is selected. It shows three networking options: 'Public', 'Private', and 'None'. The 'Public' option is chosen. Below it, the 'Networking type' is set to 'Public'. The 'DNS name label' is 'lab09' and 'DNS name label scope reuse' is 'Tenant'. Under 'Ports', port 80 is mapped to TCP. At the bottom, there are buttons for 'Review + create', '< Previous', 'Next : Monitoring >', and 'Give feedback'.

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- Monitoring tab with Enable container instance logs unchecked

Microsoft Azure

Home > Container instances >

Create container instance ...

Basics Networking Monitoring Advanced Tags Review + create

Configure monitoring options for your container instance.

Insights

Enable container instance logs

Subscription for your workspace *

Log Analytics workspace *

- Deployment Successful:

NoMarketplace-20260109034707 | Overview

Deployment

Search X ⌂ Delete ⌂ Cancel ⌂ Redeploy ⌂ Download ⌂ Refresh

Go to resource Go to resource group

Your deployment is complete

Deployment name : NoMarketplace-20260109034707
Subscription : Azure for Students
Resource group : az104-rg9

Start time : 1/9/2026 3:52:51 AM
Correlation ID : 108d9718-6762-4efd-863c-ec764e7ea8c

Deployment succeeded
Deployment 'NoMarketplace-20260109034707' to resource group 'az104-rg9' was successful.

Overview

Inputs Outputs Template

Deployment details

Next steps

Cost management Set up cost alerts >

Microsoft Defender for Cloud

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

- Verify the status is running:

az104-c1 ⌂ ⌂ ⌂

Container instances

Search ⌂ Start ⌂ Restart ⌂ Stop ⌂ Delete ⌂ Refresh ⌂ Give feedback

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Settings

Monitoring

Automation

⚠ Please be aware that Docker Hub has recently introduced a pull rate limit on Docker images. instance. [Learn more](#)

Essentials

Resource group ([move](#)) : [az104-rg9](#)

Status : Running

Location : East Asia

Subscription ([move](#)) : [Azure for Students](#)

Subscription ID : 57a8b5a5-89cd-44d7-aaaf-c65ebdf15a43

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

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- Container Instance FQDN:

The screenshot shows the Microsoft Azure portal interface for a container instance named 'az104-c1'. The main pane displays the container's status as 'Running' with an IP address of 57.158.98.21 and a Fully Qualified Domain Name (FQDN) of lab09.hfhvecdzc3hyd0gk.eastasia.azurecontainer.io. The sidebar on the left provides navigation links for Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Settings, Monitoring, and Automation.

- Accessing Container Using FQDN in Browser. & Verify Welcome to Azure Container Instance Page is Displayed:

A screenshot of a web browser window showing the URL lab09.hfhvecdzc3hyd0gk.eastasia.azurecontainer.io. The page title is 'Welcome to Azure Container Instances!'. The content features a large blue cloud icon with a white arrow pointing upwards, and a purple rectangular icon with three vertical bars inside it.

- Container Logs Section & Verification of HTTP GET Log Entries:

The screenshot shows the 'Containers' section of the Azure portal for the 'az104-c1' container. It lists one container named 'az104-c1' running on the 'mcr.microsoft.com/azuredocs/aci...' image. The 'Logs' tab is selected, displaying a log entry from port 80. The log entry shows multiple HTTP requests, including a POST request for a favicon and a GET request for a login page, both originating from IP address 10.92.0.4.

Name	Image	State	Previous state	Start time	Restart count
az104-c1	mcr.microsoft.com/azuredocs/aci...	Running	-	2026-01-08T22:54:02.115Z	0

```
listening on port 80
::ffff:10.92.0.4 - - [08/Jan/2026:23:04:33 +0000] "POST / HTTP/1.1" 404 140 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36"
::ffff:10.92.0.4 - - [08/Jan/2026:23:04:34 +0000] "GET / HTTP/1.1" 200 1696 "-" "-"
::ffff:10.92.0.5 - - [08/Jan/2026:23:35:08 +0000] "GET / HTTP/1.1" 200 1696 "-" "Mozilla/5.0 (compatible; CensysInspect/1.1; +https://about.censys.io)"
::ffff:10.92.0.5 - - [08/Jan/2026:23:35:10 +0000] "GET /favicon.ico HTTP/1.1" 404 150 "-" "Mozilla/5.0 (compatible; CensysInspect/1.1; +https://about.censys.io)"
::ffff:10.92.0.5 - - [08/Jan/2026:23:35:15 +0000] "GET /login HTTP/1.1" 404 144 "-" "Mozilla/5.0 (compatible; CensysInspect/1.1; +https://about.censys.io)"
::ffff:10.92.0.4 - - [08/Jan/2026:23:50:22 +0000] "GET / HTTP/1.0" 200 1696 "-" "-"
::ffff:10.92.0.4 - - [09/Jan/2026:00:01:50 +0000] "GET / HTTP/1.1" 200 1696 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/124.0.60 Safari/537.36"
```