

## 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:**

Microsoft Azure

Home > Container instances >

### Create container instance

Subscription \*

Resource group \*  [Create new](#)

**Container details**

Container name \*

Region \*

Availability zones (Preview)

SKU   
Standard SKU is available for all regions. Confidential SKU is only available for specific regions. [Learn more](#)

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

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

Image \*

[Review + create](#) [< Previous](#) [Next: Networking >](#) [Give feedback](#)

- **Networking tab showing DNS name label configuration:**

Microsoft Azure

Home > Container instances >

### 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

DNS name label scope reuse \*

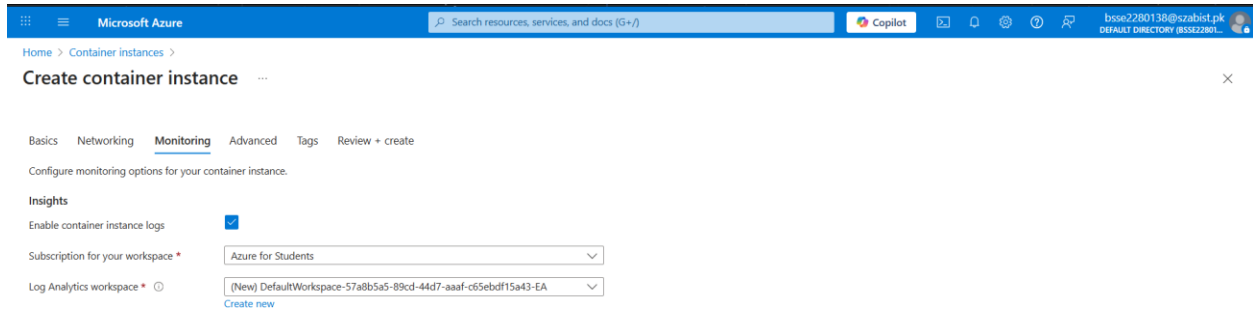
Ports  Ports protocol

[Review + create](#) [< Previous](#) [Next: Monitoring >](#) [Give feedback](#)

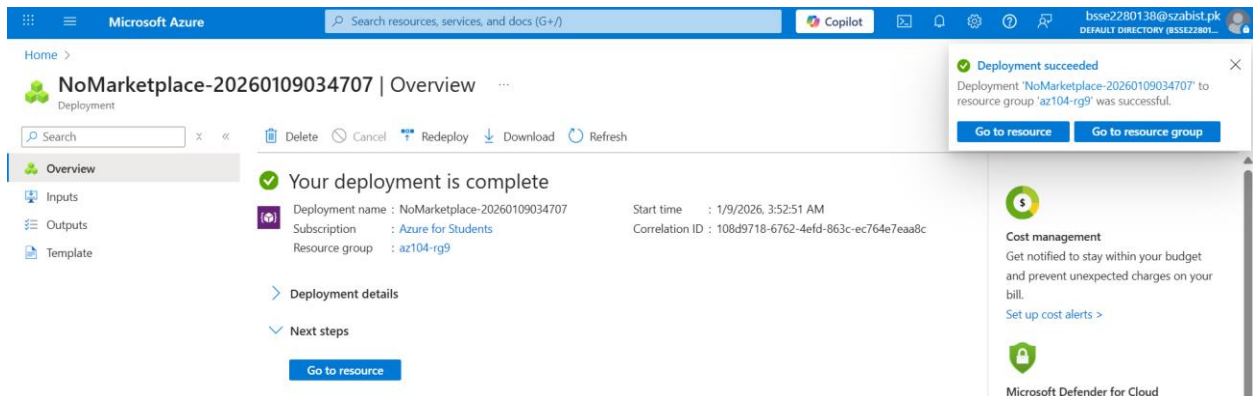
- **Monitoring tab with Enable container instance logs unchecked**

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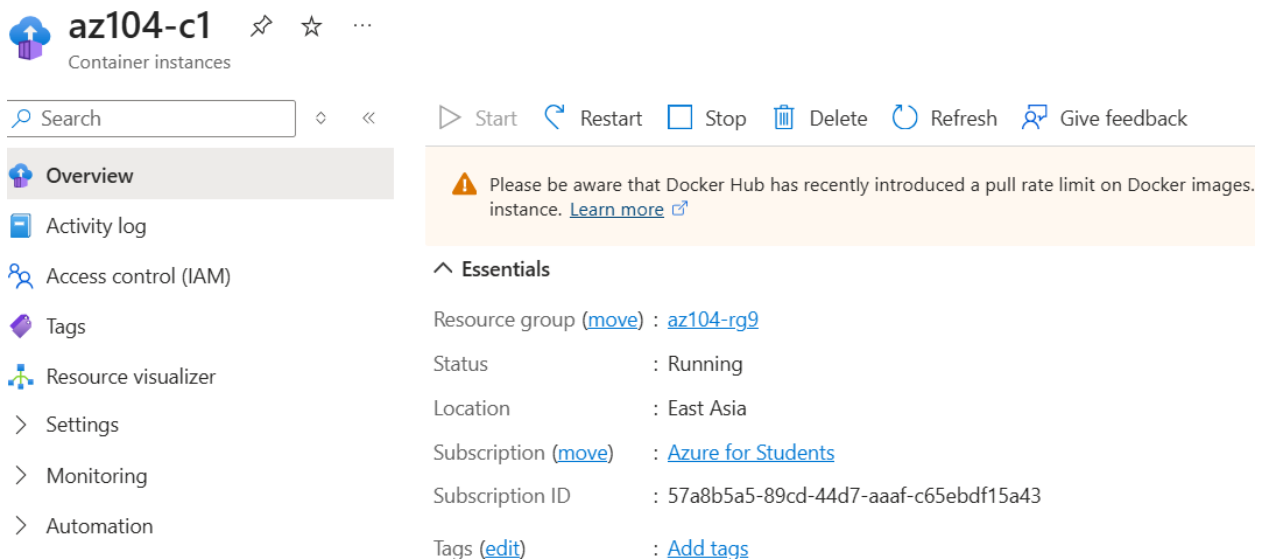


- **Deployment Successful:**



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

- **Verify the status is running:**



- **Container Instance FQDN:**

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Microsoft Azure portal showing the details of a Container Instance named **az104-c1**.

**Overview**

Activity log

Access control (IAM)

Tags

Resource visualizer

Settings

Monitoring

Automation

**Essentials**

- Resource group: [az104-rg9](#)
- Status: Running
- Location: East Asia
- Subscription: [Azure for Students](#)
- Subscription ID: 57a8b5a5-89cd-44d7-aaaf-c65ebdf15a43
- Tags: [Add tags](#)
- SKU: Standard
- OS type: Linux
- IP address (Public): 57.158.98.21
- FQDN: [lab09.hfivcedzc3hyd0gk.eastasia.azurecontainer.io](#)
- Container count: 1

Please be aware that Docker Hub has recently introduced a pull rate limit on Docker images. When specifying an image from the Docker Hub registry, this may impact your container instance. [Learn more](#)

[JSON View](#)

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

Browser screenshot showing the URL [lab09.hfivcedzc3hyd0gk.eastasia.azurecontainer.io](http://lab09.hfivcedzc3hyd0gk.eastasia.azurecontainer.io). The page displays "Welcome to Azure Container Instances!" and a large icon representing a container (a blue cloud with a white arrow pointing up to a purple square with three vertical bars).

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

Microsoft Azure portal showing the **Containers** section for the Container Instance **az104-c1**.

1 container and 0 init containers

Name	Image	State	Previous state	Start time	Restart count
az104-c1	mcr.microsoft.com/azuredocs/aci...	Running	-	2026-01-08T22:54:02.115Z	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 - - [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/2026:23:23:04 +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/124.0.0.0 Safari/537.36"
```