

# 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 \* Azure for Students

Resource group \* (New) az104-rg9

Container details

Container name \* az104-c1

Region \* (Asia Pacific) East Asia

Availability zones (Preview) None

SKU Standard

Image source \* Quickstart images

Run with Azure Spot discount

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

Review + create < Previous Next: Networking >

- 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 lab09

DNS name label scope reuse \* Tenant

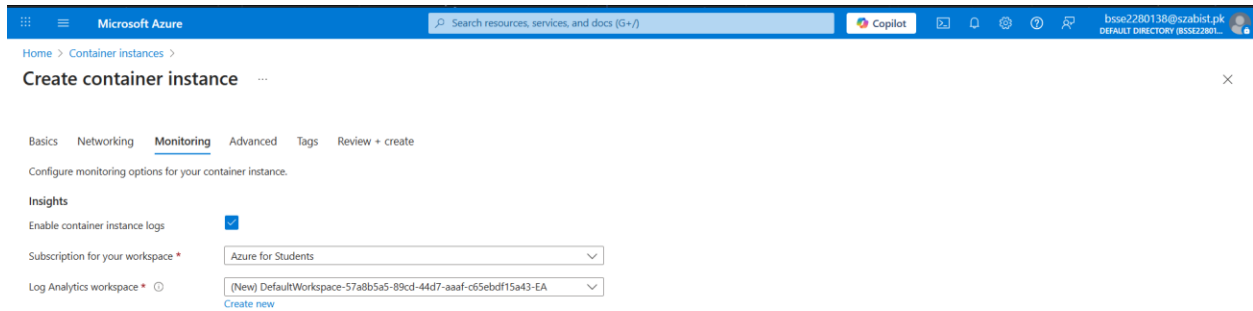
Ports	Ports protocol
80	TCP

Review + create < Previous Next: Monitoring >

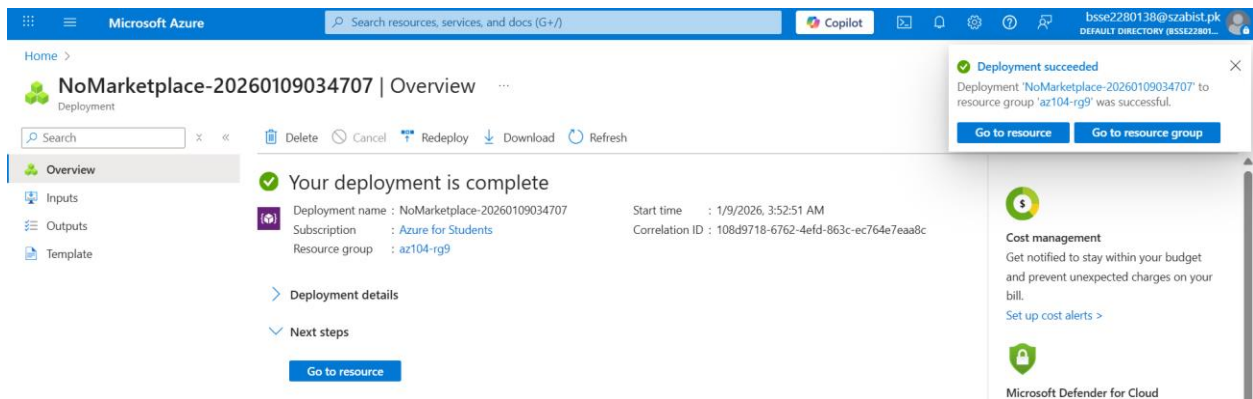
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- **Monitoring tab with Enable container instance logs unchecked**

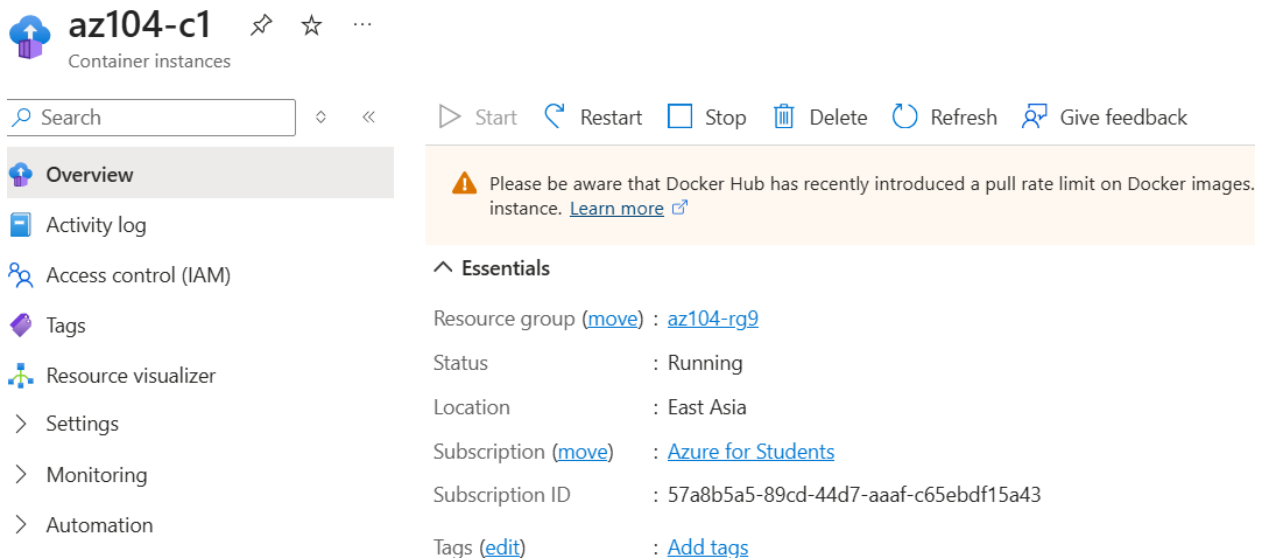


- **Deployment Successful:**



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

- **Verify the status is running:**



## INTRODUCTION TO CLOUD COMPUTING

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- **Container Instance FQDN:**

The screenshot shows the Azure portal interface for a Container Instance named 'az104-c1'. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Settings, Monitoring, and Automation. The main content area displays the 'Essentials' section with the following details:

- 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.hfhvecdzc3hyd0gk.eastasia.azurecontainer.io](#)
- Container count: 1

A warning message at the top states: "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](#)".

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

The screenshot shows a web browser window with the address bar displaying the FQDN: `lab09.hfhvecdzc3hyd0gk.eastasia.azurecontainer.io`. The page content displays the message "Welcome to Azure Container Instances!" in a large, blue font. Below the text is a graphic consisting of a blue cloud with a white upward-pointing arrow, and a purple square icon with three vertical white bars.

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

The screenshot shows the Azure portal interface for the 'Containers' section of the 'az104-c1' Container Instance. The left sidebar includes links for Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Settings, Containers, Identity, Properties, Locks, Monitoring, Automation, and Help. The main content area displays the 'Logs' section for the container 'az104-c1'. It shows a table with columns: Name, Image, State, Previous state, Start time, and Restart count. The container is in a 'Running' state.

Below the table, there is a section for 'Events', 'Properties', 'Logs', and 'Connect'. The 'Logs' section is active, displaying a log entry for the container 'az104-c1'. The log entry shows the following details:

- Listening on port 80
- Log entry: `POST / HTTP/1.1" 404 140 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36"`
- Log entry: `GET / HTTP/1.1" 200 1696 "-" "-"`
- Log entry: `GET / HTTP/1.1" 200 1696 "-" "Mozilla/5.0 (compatible; CensysInspect/1.1; +https://about.censys.io/)"`
- Log entry: `GET /favicon.ico HTTP/1.1" 404 150 "-" "Mozilla/5.0 (compatible; CensysInspect/1.1; +https://about.censys.io/)"`
- Log entry: `GET /login HTTP/1.1" 404 144 "-" "Mozilla/5.0 (compatible; CensysInspect/1.1; +https://about.censys.io/)"`
- Log entry: `GET / HTTP/1.0" 200 1696 "-" "-"`
- Log entry: `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"`