

## INTRODUCTION TO CLOUD COMPUTING

### Lab Task 05 (C) (Implement Azure Container Apps)

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### Task 1: Create and configure an Azure Container App and environment.

The screenshot shows two pages from the Microsoft Azure portal:

**Create Container app** (Step 1 of 3):

- Subscription:** Azure for Students
- Resource group:** (new) az104-rg9 or Create new resource group
- Container app name:** my-app
- Optimize for Azure Functions:** Built-in support and autoscaling for Azure Functions (requires image compatible with Functions). How to run functions with your container app
- Deployment source:** Container image (selected), Source code or artifact
- Container Apps environment:** An environment is a secure boundary around a group of container apps. Container Apps Pricing
- Show environments in all regions:** (unchecked)
- Region:** East Asia
- Container Apps environment:** (new) my-environment (az104-rg9) or Create new environment

**Next : Container >**

**Create Container Apps environment** (Step 2 of 3):

- Environment details:** The environment is a secure boundary around one or more container apps that can communicate with each other and share a virtual network, logging, and Dapr configuration. Learn more
- Environment name:** my-environment
- Zone redundancy:** A Container App Environment can be deployed as a zone redundant service in the regions that support it. This is a deployment time only decision. You can't make Container App Environment zone redundant after it has been deployed. Learn more
- Zone redundancy:**  **Disabled:** Your Container App Environment and the apps in it will not be zone redundant.  
 **Enabled:** Your Container App Environment and the apps in it will be zone redundant. This requires vNet integration.

**Create** **Cancel**

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Microsoft Azure search resources, services, and docs (S+J) Copilot Home > Container Apps > Create Container app ...

Basics Container Tags Review + create

Select a quickstart image for your container, or deselect quickstart image to use an existing container.

Use quickstart image

Container details You can change these settings after creating the Container app.

Quickstart image \* Simple hello world container

Container resource allocation Workload profile type Consumption Number of CPU cores 0.25 Memory size (Gi) 0.5

Application ingress settings Enable ingress for applications that need an HTTP or TCP endpoint.

Ingress  Enabled Ingress traffic Accepting traffic from anywhere Target port  80

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### Task 2: Test and verify deployment of the Azure Container App.

← → G my-app.mangocean-ff024f37.eastasia.azurecontainerapps.io

Microsoft Azure

### Your container app is running with a Hello World image

Azure Container Apps is a serverless container solution for apps and microservices that helps you:

- Simplify your container deployments
- Manage less infrastructure
- Scale automatically on demand

[Learn more.](#)

#### Next steps

Explore sample templates you can leverage for your container apps. Follow our Quickstart guide and deploy your own app.

[Sample apps](#) [Quickstart](#)

The dashboard displays four charts under the 'Monitoring' tab:

- CPU Percentage (Preview):** Shows CPU usage percentage from 0% to 100% over the last hour. A sharp peak is visible around 2 AM UTC-05:00.
- Memory Percentage (Preview):** Shows memory usage percentage from 0% to 100% over the last hour. A sharp peak is visible around 2 AM UTC-05:00.
- Response Time (Preview):** Shows average response time in milliseconds from 100ms to 1000ms over the last hour. A sharp peak is visible around 2 AM UTC-05:00.
- Network In Bytes and Network Out Bytes:** Shows network traffic in bytes over the last hour. Both show a significant spike around 2 AM UTC-05:00.