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BSSE – 7A

Lab: 09 B

Implement Azure Container Instances

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

In this task, you will create a simple web application using a Docker image. Docker is a platform that provides the ability to package and run applications in isolated environments called containers. Azure Container Instances provides the compute environment for the container image.

Validation passed

Basics Networking Monitoring Advanced Tags Review + create

Subscription: Azure for Students
Resource group: (new) az104-rg9
Region: Central India
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

Create < Previous Next > Download a template for automation Give feedback

bsse2280108@szabist.pk DEFAULT DIRECTORY (BSSE22801...)

Deployment succeeded

Deployment 'NoMarketplace-20251214182110' to resource group 'az104-rg9' was successful.

Go to resource Go to resource group

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

In this task, you review the deployment of the container instance. By default, the Azure Container Instance is accessible over port 80. After the instance has been deployed, you can navigate to the container using the DNS name that you provided in the previous task.

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with 'Microsoft Azure' and a search bar. Below it, the main content area shows a container instance named 'az104-c1'. On the left, there's a sidebar with various navigation links. The main panel is titled 'Overview' and contains sections for 'Essentials' and 'Logs'. It lists details such as Resource group (az104-rg), Status (Running), Location (Central India), Subscription (Azure for Students), and IP address (98.70.244.179). A note at the top right says '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.' There's also a 'JSON View' link. At the bottom, there are buttons for Start, Stop, Delete, Refresh, and Give feedback.

The screenshot shows a web browser window with the title 'az104-c1 - Microsoft Azure'. The address bar shows the URL 'bismacontainer123.eufth9hdb3c2fact.centralindia.azurecontainer.io'. The page content is a simple welcome message: 'Welcome to Azure Container Instances!' followed by a large blue cloud icon with a white arrow pointing upwards, and a purple rectangular icon with vertical bars inside.

Key takeaways

Congratulations on completing the lab. Here are the main takeaways for this lab.

- + Azure Container Instances (ACI) is a service that enables you to deploy containers on the Microsoft Azure public cloud.
- + ACI doesn't require you to provision or manage any underlying infrastructure.
- + ACI supports both Linux containers and Windows containers.
- + Workloads on ACI are usually started and stopped by some kind of process or trigger and are usually short-lived.