Azure Web Apps and Container Instances

Project Overview

This document presents hands-on experience managing application hosting services in Microsoft Azure, with a focus on Azure Web Apps and Azure Container Instances. The work emphasizes deployment configuration, scaling, and operational management of cloud-hosted applications.

Key areas addressed include:
- Web application configuration and deployment workflows
- Deployment slot management for staged releases
- Application auto-scaling based on demand
- Containerized application deployment using Azure Container Instances
- Verification and operational validation of hosted applications

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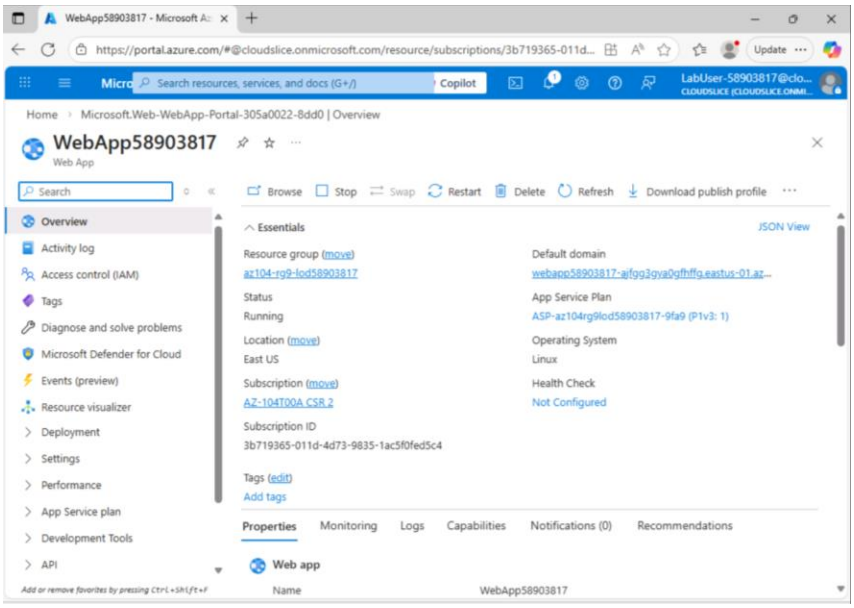
Web Application Configuration and Deployment Workflows

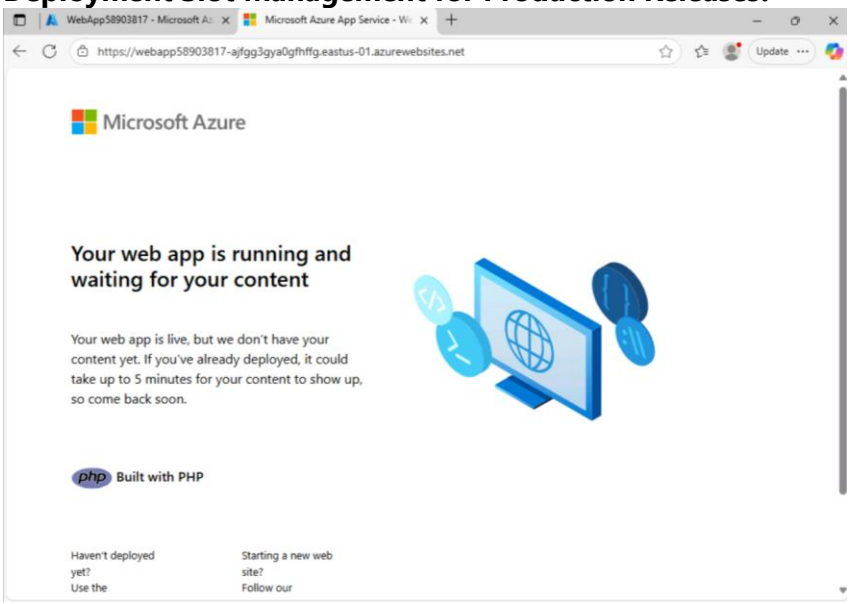
This section documents the configuration and deployment of Azure Web Apps, including application settings and deployment options used to support reliable application delivery.

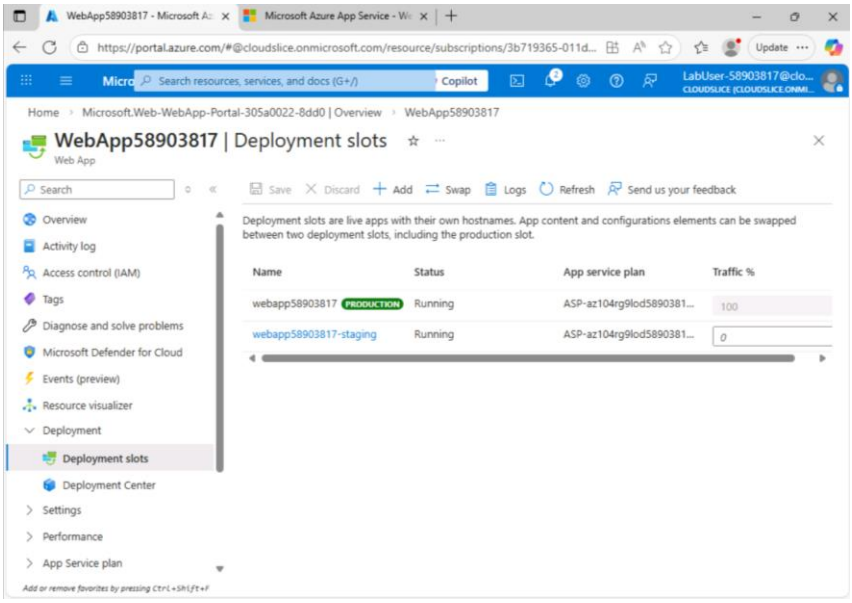


Deployment Slot Management for Staged Releases

This section describes the use of deployment slots to manage staged application releases, enabling controlled updates and reduced deployment risk.

Deployment Slot Management for Production Releases.





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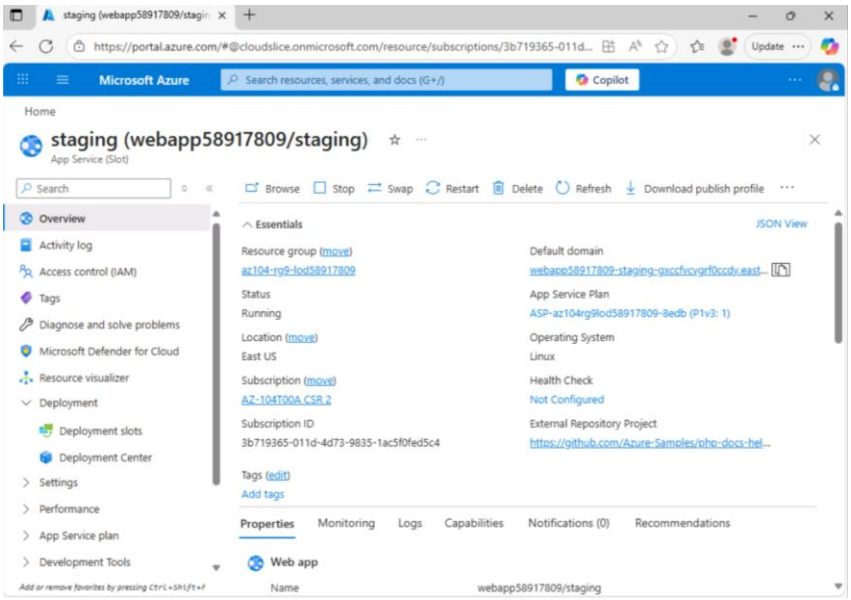

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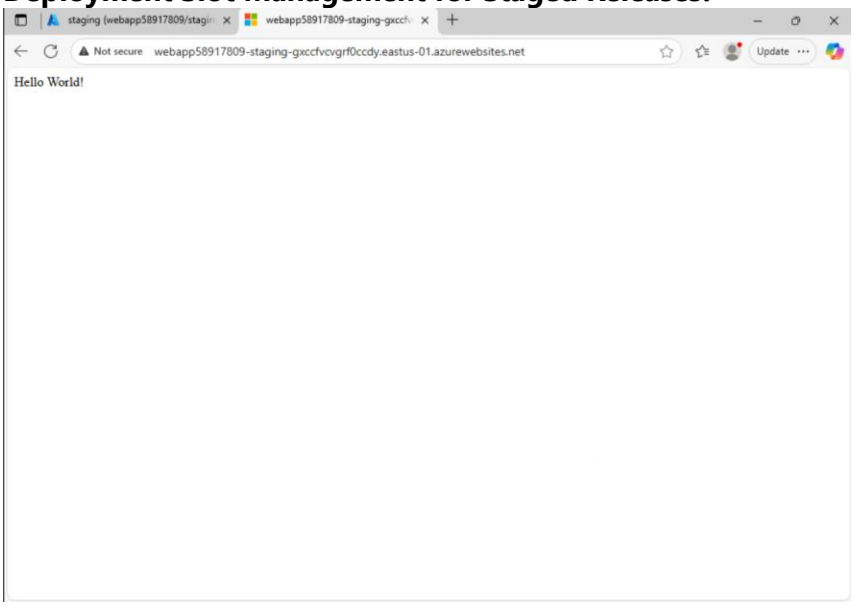
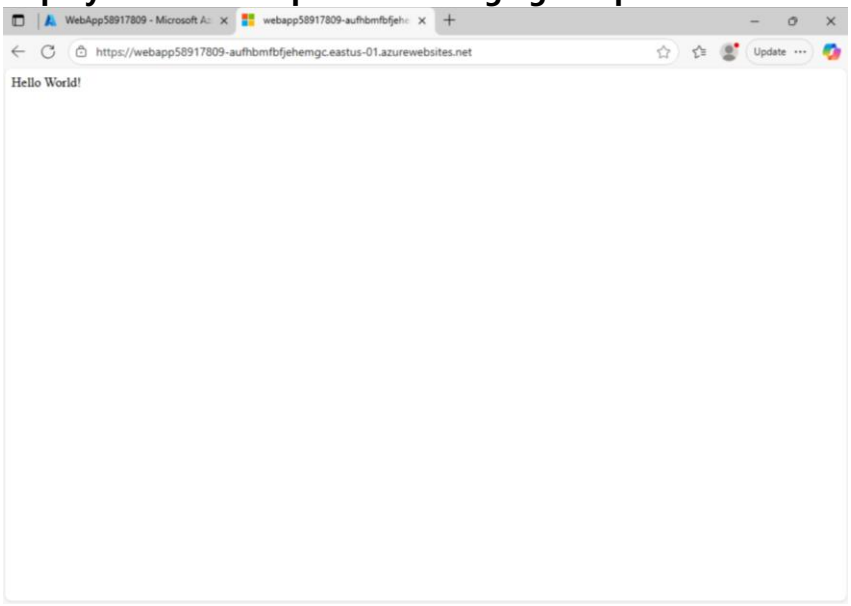
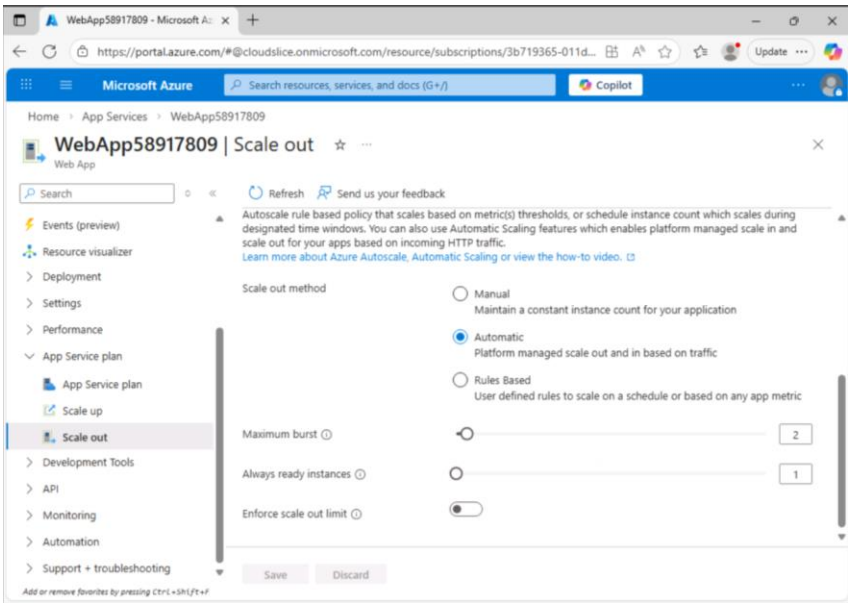


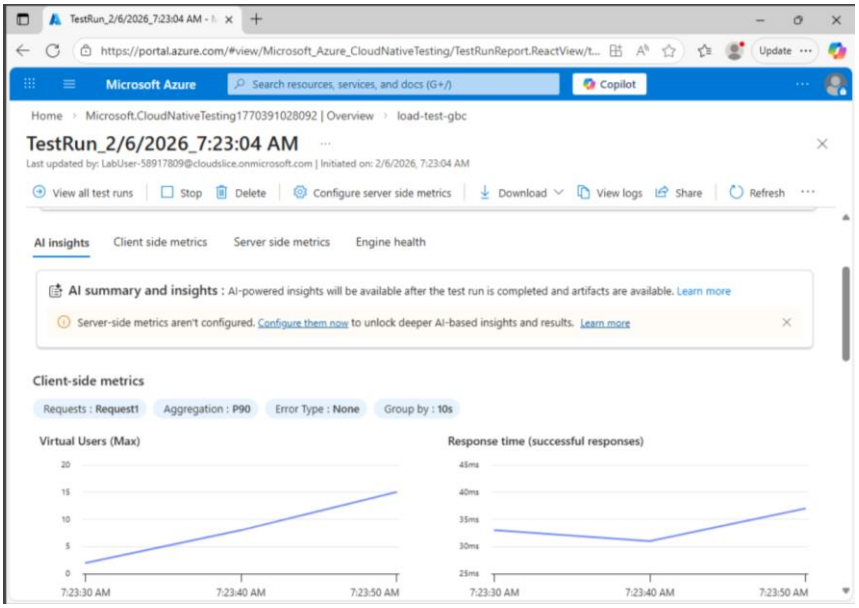
Deployment slot swap between staging and production environments.



Application Auto-Scaling Based on Demand

This section outlines the configuration and testing of auto-scaling rules to dynamically adjust application capacity in response to workload demand.

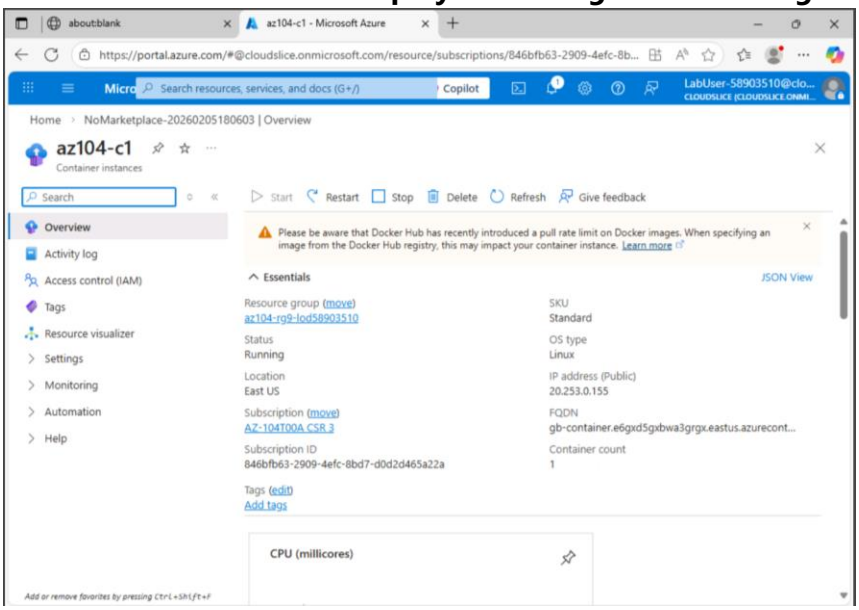




Containerized Application Deployment Using Azure Container Instances

This section demonstrates the deployment of containerized applications using Azure Container Instances, highlighting container configuration and execution in a managed environment.

Azure Container Instance deployment using a Docker image.



Verification and Operational Validation of Hosted Applications