MOC 40507-1 B: Microsoft Cloud Workshop: Microservices Architecture (Infrastructure Edition)

Course Summary

Description

Implement an architecture for an online concert ticket vendor to handle spikes in traffic built on top of Service Fabric and apply smooth updates or roll back failing updates. Add user registration and login capabilities, using Azure Active Directory B2C. Ensure your architecture can handle unexpected traffic spikes through load testing and partition monitoring.

Objectives

After taking this course, students will be able to:

- Implement scale and resiliency with Service Fabric
- Control API access with API Management.
- Provide query flexibility with Cosmos DB.
- Automatically rollback a faulty upgrade.
- Perform load tests against a Service Fabric cluster, including with partitions.
- Use Azure Active Directory B2C to secure the application

Topics

- Whiteboard Design Session - Microservices Architecture (Infrastructure Edition)
- Hands-on Lab - Microservices Architecture (Infrastructure Edition)

Audience

This workshop is intended for Cloud Architects and IT professionals who have architectural expertise of infrastructure and solutions design in cloud technologies and want to learn more about Azure and Azure services.

Prerequisites

Those attending this workshop should be experienced in other non-Microsoft cloud technologies and want to cross-train on Azure.

Duration

One day

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Course Outline

I. Whiteboard Design Session - Microservices Architecture (Infrastructure Edition)
- A. Review the customer case study
- B. Design a proof of concept solution
- C. Present the solution

II. Hands-on Lab - Microservices Architecture (Infrastructure Edition)
- A. Environment setup
- B. Placing ticket orders
- C. Publish the Service Fabric application
- D. API Management
- E. Configure and publish the web application
- F. Upgrading
- G. Rollback
- H. Load testing
- I. Load testing w/partitions
- J. Secure the web application