ProTech Professional Technical Services, Inc.

MOC 40501 G: Microsoft Cloud Workshop: Cloud-Native Applications

Course Summary

Description

In this workshop, you will build a proof of concept (POC) that will transform an existing PaaS application to a container-based application. This POC will deliver a multi-tenant web app hosting solution leveraging Azure Kubernetes Service (AKS), Docker containers on Linux nodes, and a migration from MongoDB to CosmosDB

Objectives

At the end of this workshop, you will be better able to improve the reliability of and increase the release cadence of your container-based applications through time-tested DevOps practices.

Topics

- Whiteboard Design Session - Containers and DevOps
- Hands-on Lab - Containers and DevOps

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 as described in the 'About this Course' and 'At Course Completion' areas. Those attending this workshop should also be experienced in other non-Microsoft cloud technologies, meet the course prerequisites, and want to cross-train on Azure.

Prerequisites

Workshop content presumes 300-level of architectural expertise of infrastructure and solutions design. We suggest students take Microsoft Azure Essentials course prior to attending this workshop.

Duration

One Day

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Course Outline

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I. *Whiteboard Design Session - Containers and DevOps*
   A. Review the customer case study
   B. Call to action: Design a proof of concept solution
   C. Call to action: Present the solution

II. *Hands-on Lab - Containers and DevOps*
   A. Create and run a Docker application
   B. Deploy the solution to Azure Kubernetes Service
   C. Scale the application and test HA
   D. Setup load balancing and service discovery