AZ-120T00: Planning and Administering Microsoft Azure for SAP Workloads

Days: 4

Prerequisites: Before attending this course, students should have:

- Hands-on experience with Azure IaaS and PaaS solutions, including VM, VNet, Load Balancers, Storage (Blob, Files, Disks).
- Understanding of on-premises and cloud virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts
- Experience with Linux/Unix environments.
- Solid knowledge of SAP Applications, SAP HANA, S/4HANA, SAP NetWeaver, SAP BW, OS Servers for SAP Applications and Databases.
- Understanding of SAP HANA deployment and configuration.
- Hands-on experience with SAP HANA administration.

Prerequisite Courses (or equivalent knowledge and hands-on experience):

- AZ-900 Azure Fundamentals
- AZ-104 Azure Administrator
- AZ-303 Microsoft Azure Architect Technologies (recommended)

Description: This course teaches IT Professionals experienced in SAP solutions how to leverage Azure resources that include deployment and configuration of virtual machines, virtual networks, storage accounts, and Azure AD that includes implementing and managing hybrid identities. Students of this course will learn through concepts, scenarios, procedures, and hands-on labs how to best plan and implement migration and operation of an SAP solution on Azure. Your will receive guidance on subscriptions, create and scale virtual machines, implement storage solutions, configure virtual networking, back up and share data, connect Azure and on-premises sites, manage network traffic, implement Azure Active Directory, secure identities, and monitor your solution.

Skills Gained:

- Migrate SAP Workloads to Azure
- Design an Azure Solution to Support SAP Workloads
- Build and Deploy Azure for SAP Workloads
- Validate Azure Infrastructure for SAP Workloads
- Operationalize Azure SAP Architecture

OUTLINE:

MODULE 1: INTRODUCTION TO AZURE FOR SAP WORKLOADS

Students will learn about the partnership between Microsoft and SAP, explore an overview of Azure for SAP workloads, evaluate Microsoft components, and learn common terms and meanings.

MODULE 2: FOUNDATIONS OF AZURE FOR SAP WORKLOADS

Contains lessons on Azure compute, Azure storage, Azure networking, Identity services, and Governance and manageability.

AZ-120T00: Planning and Administering Microsoft Azure for SAP Workloads

MODULE 3: SAP CERTIFIED OFFERINGS ON AZURE

Contains lessons on general prerequisites (SAP support in public cloud environments), deployment options of Azure for SAP workloads, SAP product-specific support for Azure, operating System support of Azure for SAP workloads, storage support of Azure for SAP workloads, networking support for SAP, database support for SAP, high availability and disaster recovery support for SAP, and monitoring requirements for SAP

LABS

- Online Lab: Implementing Linux clustering on Azure VMs
- Online LabL Implementing Windows clustering on Azure VMs

MODULE 4: AZURE FOR SAP WORKLOADS REFERENCE ARCHITECTURE

Contains lessons on SAP NetWeaver with AnyDB on Azure VMs, and SAP S4 HANA on Azure VMs.

MODULE 5: PLANNING FOR IMPLEMENTING SAP SOLUTIONS ON AZURE

Contains lessons on Azure VM compute, network, and storage considerations, Azure VM high availability and disaster recovery considerations, Azure VM backup considerations, Azure VM monitoring considerations, Azure VM security considerations, Azure VM authentication and access control considerations, and Azure VM licensing, pricing, and support considerations.

MODULE 6: PLANNING FOR MIGRATING SAP WORKLOADS TO AZURE

Contains lessons on strategies for migrating SAP systems to Microsoft Azure and SAP a workload planning and deployment checklist.

MODULE 7: IMPLEMENTING AZURE VM-BASED SAP SOLUTIONS

Contains lessons on Azure VM deployment methodologies, single-instance implementations (2-tier and 3-tier), implementing HA SAP NetWeaver with AnyDB on Azure VMs, implementing HA SAP HANA on Azure VMs, configuring Azure Enhanced Monitoring Extension for SAP, and implementing AD and Azure AD-based authentication.

LABS

- Online Lab: Implementing SAP architecture on Azure VMs running Windows
- Online Lab: Implementing SAP architecture on Azure VMs running Linux

MODULE 8: SAP HANA ON AZURE (LARGE INSTANCES) (HLI)

Contains lessons on the foundations of SAP HANA on Azure (Large Instances) (HLI), HLI certified offerings, HLI sample architecture, HLI planning considerations, HLI high availability and disaster recovery planning, HLI backup considerations, HLI security considerations, HLI licensing and support, implementing and deploying HLI, managing HLI, and HLI monitoring and troubleshooting.

MODULE 9: MIGRATING SAP WORKLOADS TO AZURE

Contains lessons on migration options, DMO methodology, cloud migration options, and very large database migration to Azure.

MODULE 10: MAINTAINING AZURE FOR SAP WORKLOADS

Contains lessons on remote management, performing backups and restores, networking changes, OS and workload updates, vertical and horizontal scaling, and disaster recovery.

MODULE 11: MONITORING AND TROUBLESHOOTING AZURE FOR SAP WORKLOADS

Contains lessons on monitoring and troubleshooting Azure VMs, and raising support request