

Microsoft Azure for SAP Work Loads

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. You 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.

Audience profile

This course is for Azure Administrators who migrate and manage SAP solutions on Azure. Azure Administrators manage the cloud services that span storage, networking, and compute cloud capabilities, with a deep understanding of each service across the full IT lifecycle. They take end-user requests for new cloud applications and make recommendations on services to use for optimal performance and scale, as well as provision, size, monitor and adjust as appropriate. This role requires communicating and coordinating with vendors. Azure Administrators use the Azure Portal and as they become more proficient they use PowerShell and the Command Line Interface.

Skills gained

- Migrate and SAP HANA, S/4HANA, SAP NetWeaver to Azure
- Leverage Azure Portal, Cloud Shell, Azure PowerShell, CLI, and Resource Manager
- Use intersite connectivity features including VNet Peering and VNet-to-VNet connections
- Work with Azure Active Directory (AAD) and Azure AD Connect

Prerequisites

- Administrators and architects of Azure solutions for SAP should possess solid knowledge of SAP Applications, SAP HANA, S/4HANA, SAP NetWeaver, SAP BW, OS Servers for SAP Applications and Databases.
- Prior to taking this course, it is recommended that students to have taken the Azure Administrator (AZ-103) or Azure Solutions Architect (AZ-300) training, as well as SAP HANA and Linux training.

Course Content

Module 1: Introduction

Contains an overview of the SAP and Microsoft partnership.

Module 2: Foundations of SAP on Azure

Contains brief lessons on Azure compute, Azure storage, Azure networking, SAP HANA for Azure (Large Instances), identity services, governance and manageability, backup and data protection services, and migration services.

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.

Lab : Online Lab: Implementing Linux clustering on Azure VMs

Lab : Online Lab: Implementing Windows clustering on Azure VMs

Module 4: SAP on Azure Reference Architecture

Contains lessons on SAP NetWeaver with AnyDB, SAP S4 HANA, and SAP HANA on Azure (Large Instances) on Azure VMs.

Module 5: Planning for Implementing SAP Solutions on Azure

Contains lessons on Azure VM compute, network, and storage considerations. As well as Azure VM high availability and disaster recovery, Azure VM backup considerations, Azure VM monitoring considerations, Azure VM security considerations, and Azure VM authentication and access control 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 or 3-tier), implementing HA SAP NetWeaver with AnyDB on Azure VMs, implementing HA SAP HANA on Azure VMs, configure the Azure Enhanced Monitoring Extension for SAP, and implementing AD and Azure AD-based authentication.

Module 8: Deploying HANA Large Instances (HLI)

Contains a lesson on implementing HANA Large Instances (HLI).

Module 9: Migrating SAP Workloads to Azure

Contains lessons on migration options, DMO methodologies, cloud migration options, and Very Large Database Migration to Azure.

Lab : Online Lab-Implement SAP architecture on Azure VMs running Linux

Lab : Online Lab-Implement SAP architecture on Azure VMs running Windows

Module 10: Maintaining SAP on Azure

Contains lessons on, remote management, performing backups and restores, OS and workload updates, vertical and horizontal scaling, and Disaster Recovery (DR).

Module 11: Monitoring and Troubleshooting SAP on Azure

Contains lessons on monitoring Azure VMs, monitoring SAP HANA on Azure (Large Instances), and integrating SAP solutions with Microsoft cloud services.