

AZ-120T00: Planning and Deploying SAP on Azure

Course Summary

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.

Objectives

At the end of this course, students will be able to:

- 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.

Topics

- Explore Azure for SAP workloads
- Explore the foundations of Infrastructure as a Service (IaaS) for SAP on Azure
- Explore the foundations of identity and governance for SAP on Azure
- Deploy SAP on Azure
- Ensure business continuity and implement disaster recovery for SAP solutions on Azure
- Migrate SAP workloads to Azure
- Monitor and troubleshoot Azure for SAP workloads
- Explore SAP HANA on Azure (Large Instances)

Audience

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.

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Course Summary (cont)

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 configuration.
- Hands-on experience with SAP HANA administration.

Duration

Three days

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Course Outline

- I. [Explore Azure for SAP workloads](#)
Contains Lessons covering Azure on SAP workloads, SAP and Azure common terms and meanings, SAP-certified configurations, and architectures for both SAP NetWeaver with AnyDB and SAP S4 HANA on Azure virtual machines.
- II. [Explore the foundations of Infrastructure as a Service \(IaaS\) for SAP on Azure](#)
Contains lessons on Azure compute, Azure storage, Azure networking, and databases in Azure.
 - A. Lab: Implement Linux clustering for SAP on Azure virtual machines
 - B. Implement Windows clustering for SAP on Azure virtual machines
- III. [Explore the foundations of identity and governance for SAP on Azure](#)
Contains lessons on identity services, Azure remote management, and Azure governance and manageability.
- IV. [Deploy SAP on Azure](#)
Contains lessons on deployment of single-instance implementations (2-tier and 3-tier), and implementation of high availability in SAP NetWeaver with AnyDB on Azure virtual machines.
 - A. Lab: Implement SAP architecture on Azure virtual machines running Windows
 - B. Lab: Implement SAP architecture on Azure virtual machines running Linux
- V. [Ensure business continuity and implement disaster recovery for SAP solutions on Azure](#)
Contains lessons on implementation of high availability for SAP workloads in Azure, disaster recovery for SAP workloads in Azure, and backups and restores.
- VI. [Migrate SAP workloads to Azure](#)
This module provides an overview of containers in Windows Server. Additionally, this module explains how to deploy Windows Server and Hyper-V containers. It also explains how to install, configure, and manage containers by using Docker.
 - A. Overview of containers in Windows Server
 - B. Deploying Windows Server and Hyper-V containers
 - C. Installing, configuring, and managing containers by using Docker
 - D. Lab: Installing and configuring containers
 - a. Installing and configuring Windows Server containers by using Windows PowerShell
 - b. Deploy containers using Docker
- VII. [Monitor and troubleshoot Azure for SAP workloads](#)
This module provides an overview of high availability and high availability with failover clustering in Windows Server. It further explains how to plan high availability and disaster recovery solutions with Hyper-V virtual machines. Additionally, this module explains how to back up and restore the Windows Server operating system and data by using Windows Server Backup.
 - A. Defining levels of availability
 - B. Planning high availability and disaster recovery solutions with Hyper-V virtual machines
 - C. Backing up and restoring by using Windows Server Backup
 - D. High availability with failover clustering in Windows Server
 - E. Lab: Planning and implementing a high availability and disaster recovery solution
 - a. Determining the appropriate high availability and disaster recovery solution
 - b. Implementing storage migration
 - c. Configuring Hyper-V replicas

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Course Outline (cont)

VIII. Explore SAP HANA on Azure (Large Instances)

This module explains how to plan for failover clustering. It also explains how to create, manage, and troubleshoot a failover cluster.

- A. Planning a failover cluster
- B. Creating and configuring a new failover cluster
- C. Maintaining a failover cluster
- D. Troubleshooting a failover cluster
- E. Implementing site high availability with stretch clustering
- F. Lab: Implementing failover clustering
 - a. Creating a failover cluster
 - b. Verifying quorum settings and adding a node
- G. Lab: Managing a failover cluster
 - a. Evicting a node and verifying quorum settings
 - b. Changing the quorum from disk witness to file-share witness and defining node voting
 - c. Verifying high availability