

Planning and Deploying SAP on Azure (AZ-120T00)

Duration: 3 days

Audience: Professionnel TI

Who is this training for?

This course is intended for Azure administrators who migrate and manage SAP solutions to Azure.

Training objectives

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

Summary

This course teaches IT professionals experienced in SAP solutions on how to leverage Azure resources, which includes deploying and configuring virtual machines, virtual networks, storage accounts, and Azure AD, which includes implementing and managing hybrid identities. You'll learn concepts, scenarios, procedures, and hands-on labs on how to plan and implement the migration and operation of an SAP solution on Azure. You will receive guidance on registrations, creating and upgrading virtual machines, implementing storage solutions, configuring virtual networks, backing up and sharing data, connecting Azure and on-premises sites, managing network traffic, implementing Azure Active Directory, Securing identities and monitoring your solution.

Course outline

Module 1: Describe the fundamental concepts of Azure

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

Module 2: Azure Foundations for SAP workloads

Contains lessons on:

- Azure compute
- Azure storage
- Azure networks, identity services, and governance and management.

Module 3: SAP Certified Offerings on Azure

- Contains lessons on general prerequisites (support for SAP in public cloud environments),
- Azure deployment options for SAP workloads, specific support for SAP products for Azure
- Azure operating system support for SAP workloads
- Azure storage support for SAP workloads
- Networking support for SAP
- Database support for SAP, high availability and disaster recovery support for SAP, and requirements monitoring for SAP.

Lab : Implementing Linux Pooling on Azure VMs

Lab : Implementing Windows Bundle 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 to implement SAP solutions on Azure

Contains lessons on

- Azure VM compute
- Networking, and storage considerations
- Azure VM high availability and disaster recovery considerations
- Azure VM backup considerations
- Azure VM monitoring considerations
- Azure VM security considerations
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Azure VM authentication and access control considerations, and Azure VM licensing, pricing, and support considerations.

Module 6: Planning to Migrate SAP Workloads to Azure

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

Module 7: Implementing Azure VM-Based SAP Solutions

Contains lessons on

- Azure VM deployment methodologies
- Single-instance implementations (2 and 3 tiers)
- Implementing SAP NetWeaver HA with AnyDB on Azure VMs
- Implementing SAP HANA HA on Azure VMs
- Configuring the Azure Enhanced Monitoring Extension for SAP, and implementing AD and Azure AD-based authentication.

Lab : Online Lab

Lab : Implementing SAP Architecture on Azure Virtual Machines on Linux

Lab Online

Lab : Implementing SAP Architecture on Azure Virtual Machines on Windows

Module 8: SAP HANA on Azure (Large Instances) (HLI)

Contains lessons on

- the basics of SAP HANA on Azure (Large Instances) (HLI),
- HLI certified offerings,
- HLI architecture
- HLI planning considerations
- HLI high availability and disaster recovery planning
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HLI backup considerations

- HLI security considerations
- HLI licensing and support
- HLI implementation and deployment
- HLI management, and HLI monitoring and troubleshooting.

Module 9: Migrating SAP workloads to Azure

Contains lessons on

- Migration options
- DMO methodology
- Cloud migration options, and migrating very large databases to Azure.

Module 10: Maintaining SAP on Azure

Contains lessons on

- Remote management
- Performing backups and restores
- Network changes
- Operating system and workload updates
- Vertical and horizontal scaling, and disaster recovery.

Module 11: Azure Monitoring and Troubleshooting for SAP workloads

Contains lessons on monitoring and troubleshooting Azure VMs, and on support requests.

Approach and methodology

Practical and structured approach combining focused theory and guided workshops. Participants plan and progressively deploy SAP solutions in Azure through real-world exercises inspired by business scenarios, promoting immediate application of learnings. They learn how to design adapted architectures, migrate SAP environments and optimize performance, availability and security on Azure. Led by a Microsoft certified trainer, the training focuses on interactivity and the development

of directly transferable technical skills to deploy and administer SAP in the cloud in a professional context.

Prerequisites

Students should possess a strong knowledge of SAP application implementation, migration, and administration, with prior experience with Linux operating systems, virtualization, cloud infrastructure, storage structures, and networking.

Specifically: Previous experience:

- Hands-on experience with Azure IaaS and PaaS solutions, including VMs, VNets, Load Balancers, Storage (Blob, Files, Disks).
- Understanding of on-premises and cloud virtualization technologies, including: VMs, virtual networks, 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.
- Strong 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 administering SAP HANA
- AZ-900 Azure Fundamentals or equivalent content
- AZ-104 Azure Administrator or equivalent content

Recommendations

Review: SAP Architecture Basics Cloud Infrastructure (IaaS) Concepts Familiarize With: Microsoft Azure Portal Compute, Network, and Storage Services Identify

Your Goals: SAP Migration to the Cloud Optimization of Legacy High Availability and Performance
Environments