

AZ-1006: Migrate and Modernize SAP in the Microsoft Cloud

Course Details

Course Code: AZ-1006

Duration: 1 day

Notes:

- This course syllabus should be used to determine whether the course is appropriate for the students, based on their current skills and technical training needs.
- Course content, prices, and availability are subject to change without notice.
- Terms and Conditions apply

Elements of this syllabus are subject to change.

About this course

This 1-day course teaches IT professionals who have experience with SAP solutions how to use Azure resources that include setting up and configuration of SAP environments in Azure for virtual machines, virtual networks, storage accounts, and Microsoft Entra ID. Learners will also explore backup, disaster recovery, and monitoring of SAP systems in Azure. Learn through the application of concepts, scenarios, and procedures through hands-on labs using Azure Center for SAP solutions.

Audience Profile

Administrators of SAP systems that run on Azure should take this course. Before taking this course, candidates should pass the Azure Administrator (AZ-104) or Azure Infrastructure Solutions (AZ-305) exam and have completed training in SAP HANA or SAP NetWeaver.

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Modernize and explore Azure for SAP workloads

Explore the expanded partnership between Microsoft and SAP. This partnership allows you to run fully supported SAP applications across development, test, and production scenarios in Azure alongside other Microsoft components.

Learning objectives

After completing this module, you will be able to:

- Discover the SAP and Microsoft partnership.
- Explore your options with SAP on Azure.
- Discover common terms and meanings

Modernize and identify SAP-certified configurations

Learn to identify prerequisites, deployment options, and SAP-certified configurations that are available to you when deploying SAP products in Microsoft Azure.

Learning objectives

After completing this module, you will be able to:

- Explore general prerequisites for SAP support in public cloud environments.
- Discover SAP certifications and configurations running on Microsoft Azure.

Modernize and examine SAP S/4HANA on Azure Virtual Machines

Examine the Microsoft Azure architecture, and components used, when deploying SAP S/4HANA workloads and in-memory SAP HANA databases, running on Azure Virtual Machines infrastructure.

Learning objectives

After completing this module, you will be able to:

- Explore SAP S/4HANA on Azure virtual machines and learn to recognize the architecture's components.
- Examine a sample functional workflow.

Modernize and explore Azure for SAP compute

This module explores the planning and design of scalable, performant, and resilient compute components for SAP certified deployments in Microsoft Azure.

Learning objectives

After completing this module, you will be able to:

- Plan for implementing SAP solutions.
- Explore Azure virtual machines.
- Examine constrained vCPU capable virtual machine sizes.
- Examine Azure virtual machine scaling considerations.
- Explore data flows

Modernize and explore Azure network for SAP

This module explores the use of Azure network components to design Virtual networks with other networking components for scalable, performant, and resilient SAP deployments in Azure.

Learning objectives

After completing this module, you will be able to:

- Explore Azure virtual networks.
- Consider IP addressing.
- Explore name resolution.
- Explore Azure load balancer.
- Examine Azure virtual machine networking considerations.
- Explore Azure Traffic Manager.
- Explore Azure Front Door.
- Explore virtual network connectivity.
- Explore SAProuter.

Modernize and explore Azure for SAP storage

This module explores the use of Azure storage components to design scalable, performant, and resilient certified SAP deployments in Azure.

Learning objectives

After completing this module, you will be able to:

- Explore Azure Storage types.
- Explore Azure Files.
- Examine Azure virtual machine disks.
- Explore managed and unmanaged disks.
- Examine Azure virtual machine storage considerations.
- Explore Azure virtual machine NFS storage.
- Examine SAP HANA Azure virtual machine storage configurations.
- Explore NFS v4.1 volumes on Azure NetApp Files.

Modernize and explore identity services for SAP on Azure

This module explores using identity services to design multiple authentication and authorization scenarios Azure facilitates, that includes support for a range of identity providers.

Learning objectives

After completing this module, you will be able to:

- Explore Azure Virtual Machine authentication, authorization, and access control.
- Explore Microsoft Entra ID.
- Explore SAP Cloud Platform Identity authentication.
- Add SAP Cloud Platform Identity Authentication from the gallery.
- Integrate Microsoft Entra ID with SAP HANA.
- Integrate Active Directory with SAP single sign-on (Kerberos-SPNEGO).
- Integrate Linux with Active Directory Domain Services.
- Discover Microsoft Entra Domain Services.
- Explore Azure Bastion.

Modernize and explore governance and manageability for SAP on Azure

This module explores using the Azure Governance collection of concepts and services that are designed to enable management of Azure resources at scale.

Learning objectives

After completing this module, you will be able to:

- Explore Azure Resource Manager and Azure Resource Manager templates.
- Examine role-based access control.
- Explore Azure Policy.
- Explore security and compliance services.

Modernize and deploy single-instance implementations of SAP on Azure (2-tier and 3-tier)

SAP professionals need to evaluate deploying SAP solutions on Azure. This module explores the preparation for single-instance SAP HANA deployment on Azure.

Learning objectives

After completing this module, you will be able to:

- Explore deployment methodologies.
- Prepare Azure virtual machines for a manual installation of SAP HANA.
- Discover key steps for SAP HANA installation when you use SAP SWPM.
- Discover key steps for SAP HANA installation using HDBLCM.
- Implement SAP HANA scale-out.

Modernize and implement high availability in SAP NetWeaver with AnyDB on Azure Virtual Machines

SAP professionals need to evaluate deploying SAP solutions on Azure. This module explores the preparation for SAP NetWeaver high availability AnyDB deployment on Azure.

Learning objectives

After completing this module, you will be able to:

- Examine single-SID 3-tier SAP NetWeaver high availability AnyDB deployment.

Modernize and explore Azure Center for SAP solutions

Explore how Azure Center for SAP Solutions (ACSS) offers secure, scalable, and reliable deployment and management of SAP workloads on Azure.

Learning objectives

After completing this module, you will be able to:

- Discover Azure Center for SAP Solutions (ACSS) and its services.
- Learn how to deploy SAP workloads on Azure or register existing SAP workloads with ACSS.
- Use ACSS to manage new and existing SAP workloads on Azure.
- Monitor and troubleshoot SAP workloads on Azure.

Modernize and implement high availability for SAP workloads in Azure

This module explores high availability and disaster recovery support of Azure for SAP workloads, such as SAP application servers, SAP ASCS-SCS instances, DBMS instances, and SAP HANA.

Learning objectives

After completing this module, you will be able to:

- Explore high availability and disaster recovery support of Azure for SAP workloads.
- Explore high availability of SAP workloads.
- Examine failover clustering.
- Explore deployment scenarios.
- Explore high availability of SAP application servers.
- Explore high availability of SAP ASCS-SCS instances.
- Explore SAP HANA availability.
- Explore SQL Server high availability for SAP in Azure.
- Explore Oracle high availability for SAP in Azure.
- Examine high availability capabilities of Azure infrastructure.
- Explore Availability Zones.

Modernize and implement disaster recovery for SAP workloads in Azure

This module explores disaster recovery support of Azure for SAP workloads, including deployments within single and multiple Azure regions, multi-tier SAP NetWeaver app deployment in Azure, and Azure services, such as Active Directory and DNS.

Learning objectives

After completing this module, you will be able to:

- Explore disaster recovery of SAP workloads.
- Explore simple availability between two Azure regions.
- Combine availability within one region and across regions.
- Explore site recovery.
- Implement disaster recovery for SAP deployments across Azure regions with Azure Site Recovery.
- Set up site recovery for virtual machines in proximity placement groups - Azure to Azure.
- Set up disaster recovery for Active Directory and DNS.

Modernize, perform backups and restores for SAP workloads on Azure

This module explores backup and restore of Azure virtual machines and examines the steps and important considerations involved in backing up and restoring SAP workloads on Azure.

Learning objectives

After completing this module, you will be able to:

- Explore backup and restore of Azure virtual machines.
- Examine application-consistent backup of Azure Linux virtual machines.
- Explore application backup.
- Explore SAP HANA backup.
- Explore SAP HANA file-level backups.
- Create SAP HANA snapshot-based backups.

Modernize, use the planning and deployment checklist for SAP workloads on Azure

This module uses the SAP workload planning and deployment checklist to guide SAP deployment teams through each phase of the SAP on Azure migration process. It also includes a brief introduction to very large database (VLDB) migration.

Learning objectives

After completing this module, you will be able to:

- Examine the SAP workload planning and deployment checklist.
- Explore the project preparation and planning phase.
- Explore the production preparation phase.
- Explore very large database migration.

Modernize and explore monitoring requirements of Azure for SAP workloads

This module covers monitoring of data from several Azure systems and to support SAP on Azure workloads with logging, analysis and reporting using the Azure Extension for SAP.

Learning objectives

After completing this module, you will be able to:

- Explore the monitoring requirements of Azure for SAP workloads.
- Examine monitoring, logging, and alerting services.

- Explore Azure VM monitoring considerations.
- Troubleshoot the Azure Extension for SAP.
- Explore the Azure Extension for SAP.