

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

Course Outline

1) Modernize and explore Azure for SAP workloads

- Modernize and explore Azure for SAP workloads
 - Discover the SAP and Microsoft partnership
 - Explore your options with SAP on Azure
 - Discover common terms and meanings
- Modernize and identify SAP-certified configurations
 - 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
 - Explore SAP S/4HANA on Azure virtual machines and learn to recognize the architecture's components
 - Examine a sample functional workflow

2) Modernize and explore the foundations of IaaS for SAP on Azure

- Modernize and explore Azure for SAP compute
 - 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
 - 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
 - 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

3) Modernize and explore the foundations of identity and governance for SAP on Azure

- Modernize and explore identity services for SAP on Azure

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

4) Modernize and deploy SAP on Azure

- Modernize and deploy single-instance implementations of SAP on Azure (2-tier and 3-tier)
 - 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
 - Examine single-SID 3-tier SAP NetWeaver high availability AnyDB deployment
- Modernize and explore Azure Center for SAP solutions
 - 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

5) Modernize ensure business continuity and implement disaster recovery for SAP solutions on Azure

- Modernize and implement high availability for SAP workloads in Azure
 - 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
 - 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
 - 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

6) Modernize and migrate SAP workloads to Azure

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

7) Modernize monitor and troubleshoot Azure for SAP workloads

- Modernize and explore monitoring requirements of Azure for SAP workloads
 - 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