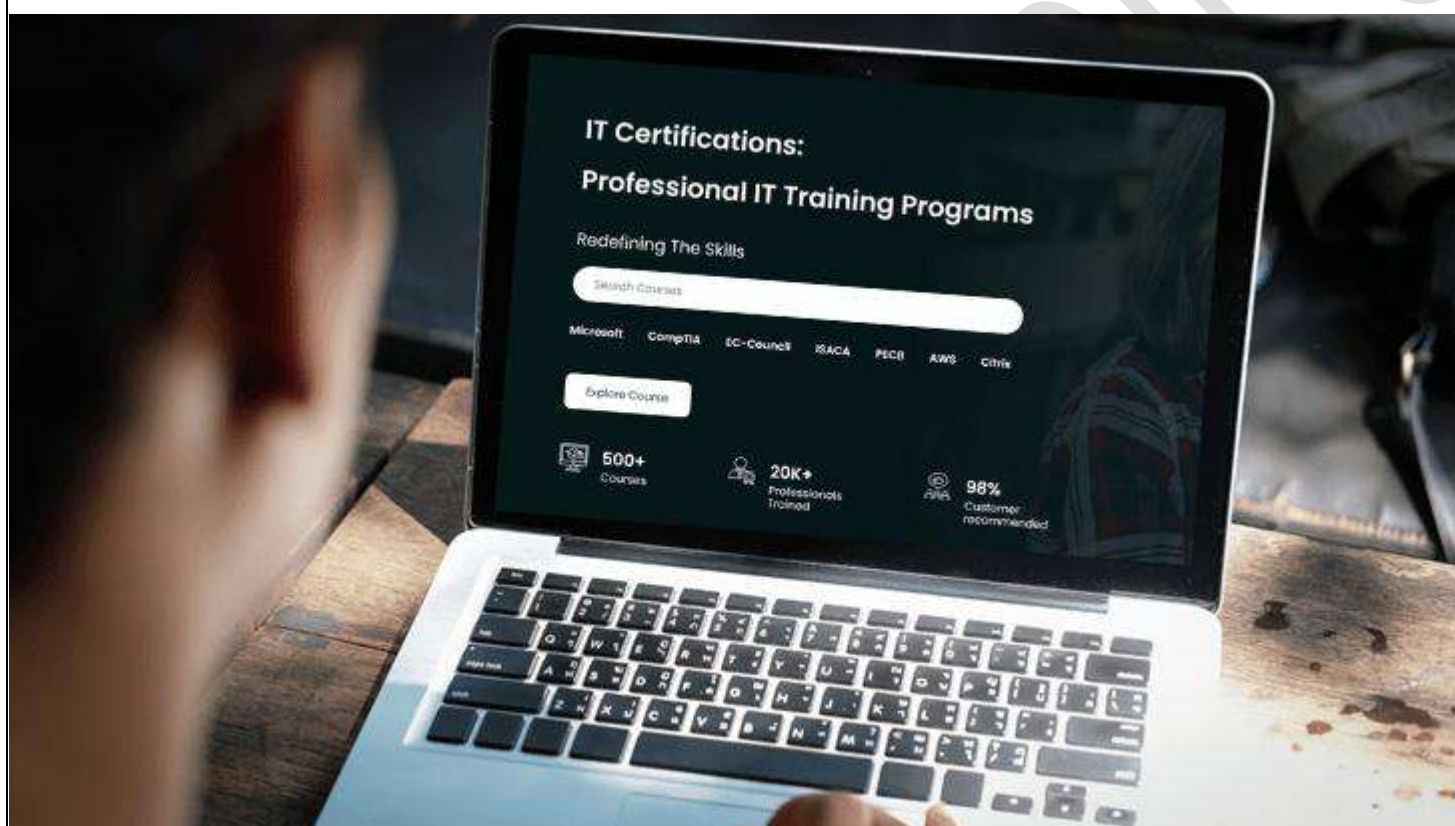




Redefining The Skills



AZ-120T00: PLANNING AND DEPLOYING SAP ON AZURE TRAINING

Duration: 3 Days

Course Description

AZ-102T00: Planning and Administering Microsoft Azure for SAP workloads Training is primarily for IT professionals. This program is a technical course that teaches them to leverage Azure resources and implement the operation and migration of an SAP solution on Azure.

Students in this program will learn to build and scale digital machines, configure digital networking, and implement storage solutions.

Our Enterprise Training Program is perfect for organizations & companies. It guides individuals to operate with Azure Active Directory and Azure AD Connect while utilizing inter-site connectivity features, that includes VNet-to-VNet connections and VNet Peering.

The training is designed based on the objectives of the course variant AZ-120T00-A.

Who should attend this course?

- Any professional aiming to gain a deep understanding of managing and migrating SAP solutions on Azure.
- Professionals planning to learn in-depth about managing cloud services that span networking, storage, and computing cloud capabilities.
- Given below are professionals who can use Planning and Administering Microsoft Azure for SAP Workload Training to upskill their current positions:
 - IT Project Managers
 - Performance Engineers
 - Cloud Solution Architects
 - Infrastructure Architects
 - Database Administrators
 - SAP Basis Administrators and Consultants
 - Cloud Architect
 - SAP Architect

What you will learn

- Migration and SAP NetWeaver, S/4HANA, SAP HANA to Azure
- Using Azure Portal, CLI, Azure PowerShell, Cloud Shell, and Resource Manager
- Using intersite connectivity features including VNet-to-VNet and VNet Peering connections
- Working with Azure AD Connect and Azure Active Directory (AAD)
- Explore the foundations of IaaS for SAP on Azure
- Deploy SAP on Azure
- Migrate SAP workloads to Azure
- Monitor and troubleshoot Azure for SAP workloads

Prerequisites

Recommended:

- AZ-104T00: Microsoft Azure Administrator
- AZ-305: Azure Solutions Architect Expert

- Familiarity with Azure IaaS, PaaS solutions that should also include VM, VNet, and Load Balancers.
- Understanding of active directory concepts
- Understanding of DNS, VPNs, and encryption technologies.
- Hands-on experience with SAP HANA administration.

Curriculum

Module 1: Explore Azure for SAP workloads

- Explore Azure for SAP workloads
 - Discover the SAP and Microsoft partnership.
 - Explore your options with SAP on Azure.
- Discover common terms and meanings for SAP on Azure
 - Discover common terms and meanings for SAP, Azure, and SAP deployments on Azure.
- Identify SAP-certified configurations
 - Explore general prerequisites for SAP support in public cloud environments.
 - Discover SAP certifications and configurations running on Microsoft Azure.
- Examine SAP NetWeaver with AnyDB on Azure virtual machines
 - Explore SAP NetWeaver with AnyDB on Azure virtual machines and learn to recognize the architecture's components.
 - Examine a sample functional workflow.
- 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.

Module 2: Explore the foundations of IaaS for SAP on Azure

- Explore Azure for SAP compute
 - Plan for implementing SAP solutions.
 - Explore Azure virtual machines.
 - Examine Azure virtual machine compute considerations.
 - Implement and verify high availability SAP HANA on Azure virtual machines.
- Explore Azure for SAP networking
 - Explore Azure virtual networks.
 - Examine Azure virtual machine networking considerations.
 - Examine load balancing considerations.
 - Explore virtual network connectivity.
 - Explore cross-premises connectivity.
- Explore Azure for SAP storage
 - Explore Azure Storage types.
 - Examine general database sizing.
 - Examine SAP HANA Azure virtual machine storage configurations.
 - Explore solutions with Premium Storage and Azure Write Accelerator for Azure M-Series virtual machines.
 - Examine sizing for HANA databases on Azure NetApp Files.
- Explore Azure for SAP databases
 - Explore database support of Azure for SAP workloads.
 - Explore storing database files directly on Azure Blob Storage.
 - Explore Azure virtual machine and blob storage security.
 - Examine SQL Server and Oracle recommendations.

- Explore Azure networking for SAP RISE
 - Differentiate the responsibilities of the SAP RISE team, Azure support, and the customer.
 - Connect to SAP RISE with Azure virtual private network (VPN) peering.
 - Connect to SAP RISE with VNet-to-VNet.
 - Connect SAP RISE with an on-premises network.
 - Connect SAP RISE with the internet.

Module 3: Explore the foundations of identity and governance for SAP on Azure

- Explore identity services for SAP on Azure
 - Define Active Directory Domain Services
 - Define Microsoft Entra ID
 - Discuss Microsoft Entra Domain Services
- Explore remote management for SAP on Azure
 - Consider remote management of Azure virtual machines.
 - Set up the Azure connector for SAP Landscape Management.
 - Explore access management.
- Explore governance and manageability for SAP on Azure
 - Explore Azure Resource Manager and Azure Resource Manager templates.
 - Examine role-based access control and Azure Policy.
 - Explore security and compliance services.

Module 4: Deploy SAP on Azure

- Deploy single-instance implementations of SAP on Azure (2-tier and 3-tier)
 - Explore deployment methodologies.
 - Deploy via Azure Resource Manager templates.
 - Prepare Azure virtual machines for a manual installation of SAP HANA.
 - Implement SAP HANA scale-out.
- Implement high availability in SAP NetWeaver with AnyDB on Azure virtual machines
 - Examine single SID 3-tier SAP NetWeaver high availability AnyDB deployment.
 - Examine multi-SID 3-tier SAP NetWeaver high availability AnyDB deployment.
 - Set up a Windows Server failover cluster for an SAP ASCS-SCS instance.
 - Examine Installation of SIOS DataKeeper Cluster Edition for the SAP ASCS-SCS cluster shared disk.
- Explore Azure Center for SAP solutions
 - Explain Azure Center for SAP Solutions (ACSS) and its services.
 - 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.

Module 5: Ensure business continuity and implement disaster recovery for SAP solutions on Azure

- Implement high availability for SAP workloads in Azure
 - Explore high availability and disaster recovery support of Azure for SAP workloads.
 - Examine principal architectures.
 - Determine latency between Azure virtual machines across Availability Zones.
- Implement disaster recovery for SAP workloads in Azure
 - Explore disaster recovery of SAP workloads.
 - Combine availability within one region and across regions.
 - Explore site recovery.
 - Implement disaster recovery for SAP deployments across Azure regions with Azure Site Recovery.

- Perform backups and restores for SAP workloads on Azure
 - Explore backup and restore of Azure virtual machines.
 - Explore application backup.
 - Explore SAP HANA backup.
 - Explore Oracle backup.
 - Explore SQL Server backups.

Module 6: Migrate SAP workloads to Azure

- Use the planning and deployment checklist for SAP workloads on Azure
 - Examine the SAP workload planning and deployment checklist.
 - Explore the phases from project preparation and planning, and through the Go Live and post production phases.
- Explore migration options for SAP on Azure
 - Analyze strategies for migrating SAP systems to Microsoft Azure.
 - Compare classical migration options.
 - Explore downtime-optimized migration.
- Migrate very large databases (VLDB) to Azure for SAP
 - Explore very large database migration.
 - Learn best practices for optimizing the source system, network upload, and the target system.
 - Examine very large database migration best practices.

Module 7: Monitor and troubleshoot Azure for SAP workloads

- Explore monitoring requirements of Azure for SAP workloads
 - Examine monitoring, logging, and alerting services.
 - Explore Azure Monitor and Log Analytics.
 - Explore operating system and workload updates for Azure virtual machines.
- Configure the Azure Enhanced Monitoring Extension for SAP
 - Explore the Azure Enhanced Monitoring Extension for SAP.
 - Configure the Azure Enhanced Monitoring Extension for SAP.
- Explore licensing, pricing, and support for SAP on Azure virtual machines
 - Learn how to price Azure virtual machine-based solutions.
 - Explore licensing, pricing, and support of Azure for SAP workloads.

LAB Outline

- Implement Linux clustering on Azure VMs
- Implement Windows clustering on Azure VMs
- Implement SAP architecture on Azure VMs running Linux
- Implement SAP architecture on Azure VMs running Windows
- Automate deployment by using Azure Center for SAP solutions
- Overview of prerequisites for deployment of Azure Center for SAP solutions (ACSS)
- Overview of deployment and maintenance of Azure Center for SAP solutions (ACSS)
- Overview of deployment Azure Center for SAP solutions

For any query Contact Us – Microtek Learning
