Planning and Administering Microsoft Azure for SAP Workloads

Duration: 3 Days   Course Code: M-AZ120   Delivery Method: Virtual Learning

Overview:

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. Your 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.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target 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.

Objectives:

- After completing this course, students will be able to:

- Migrate and manage SAP applications (SAP HANA, S/4HANA, SAP NetWeaver) on Azure

- Leverage Azure Portal, Cloud Shell, Azure PowerShell, CLI, Resource Manager, and Resource Manager Te

- Use intersite connectivity features including VNet Peering, VNet-to-VNet connections, Site-to-Site C

- Work with Azure Active Directory (AD), Azure AD Connect, and Azure AD Join, and Azure AD Identity Pr

Prerequisites:

- Administrators and architects of Azure solutions for SAP should possess solid knowledge of SAP Applications, SAP HANA, S/4HANA, SAP NetWeaver, SAP BW, OS Servers for SAP Applications and Databases.
- Prior to taking this course, it is recommended that students to have taken the Azure Administrator (AZ-104) or Azure Solutions Architect (AZ-303) training, as well as SAP HANA and Linux training.

Testing and Certification

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Content:

Module 1: Introduction

Contains an overview of the SAP and Microsoft partnership.

Module 2: Foundations of SAP on Azure

Contains brief lessons on:

- Azure Compute
- Azure Storage
- Azure Networking
- SAP HANA on Azure (Large Instances)
- Identity services
- Governance and manageability
- Backup and data protection services
- Resiliency and increased availability services
- Migration Services

Module 3: SAP Certified Offerings on Azure

Contains lessons on:

- General prerequisites (SAP support in public cloud environments)
- Deployment options of SAP solutions on Azure
- SAP product-specific support on Azure
- Operating System support for SAP on Azure
- Storage support for SAP on Azure
- Networking support for SAP on Azure
- Database support for SAP on Azure
- High availability and disaster recovery support for SAP on Azure
- Monitoring requirements for SAP on Azure
- SAP NetWeaver with AnyDB on Azure VMs
- SAP S4 HANA on Azure VMs
- SAP HANA on Azure (Large Instances)
- Azure VM compute, network, and storage considerations
- Azure VM high availability and disaster recovery
- Azure VM backup considerations
- Azure VM monitoring considerations
- Azure VM security considerations
- Azure VM authentication and access control considerations
- SAP HANA on Azure (Large Instances) compute, network, and storage
- SAP HANA on Azure (Large Instances) HA and DR considerations
- SAP HANA on Azure (Large Instances) backup considerations
- SAP HANA on Azure (Large Instances) security
- Strategies for migrating SAP systems to Microsoft Azure
- SAP workload planning and deployment

Contains lessons on:

- General prerequisites (SAP support in public cloud environments)
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- Strategies for migrating SAP systems to Microsoft Azure
- SAP workload planning and deployment checklist
- Azure VM deployment methodologies
- Single-instance implementations (2-tier or 3-tier)
- Implementing HA SAP NetWeaver with AnyDB on Azure VMs
- Implementing HA SAP HANA on Azure VMs
- Configure the Azure Enhanced Monitoring Extension for SAP
- Implementing AD and Azure AD-based authentication
- Migration options
- DMO Methodology
- Cloud migration options
- Very Large Database Migration to Azure
- Remote management
- Performing backups and restores
- Networking changes
- OS and workload updates
- Vertical and horizontal scaling
- Disaster Recovery
- Monitoring Azure VMs

Implementing HANA Large Instances

Module 9: Migrating SAP Workloads to Azure

Contains lessons on:

- General prerequisites (SAP support in public cloud environments)
- Deployment options of SAP solutions on Azure
- SAP product-specific support on Azure
- Operating System support for SAP on Azure
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- Remote management
- Performing backups and restores

checklist

- Azure VM deployment methodologies
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- Disaster Recovery
- Monitoring Azure VMs
- Monitoring SAP HANA on Azure (Large Instances)
- Integrating SAP solutions with Microsoft cloud services

Lab : Online Lab: Implementing Linux clustering on Azure VMs

Lab : Online Lab: Implementing Windows clustering on Azure VMs

Module 4: SAP on Azure Reference Architecture

- Monitoring SAP HANA on Azure (Large Instances)
- Integrating SAP solutions with Microsoft cloud services

Module 5: Planning for Implementing SAP Solutions on Azure

Contains lessons on:

- General prerequisites (SAP support in public cloud environments)
- Deployment options of SAP solutions on Azure
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- Monitoring SAP HANA on Azure (Large Instances)
- Integrating SAP solutions with Microsoft cloud services

Lab : Online Lab-Implement SAP architecture on Azure VMs running Linux

Lab : Online Lab-Implement SAP architecture on Azure VMs running Windows

Module 10: Maintaining SAP on Azure

Contains lessons on:

- General prerequisites (SAP support in public cloud environments)
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- Vertical and horizontal scaling
- Disaster Recovery
- Monitoring Azure VMs
- Monitoring SAP HANA on Azure (Large Instances)
- Integrating SAP solutions with Microsoft cloud services

Module 6: Planning for Migrating SAP Workloads to Azure

Contains lessons on:

- General prerequisites (SAP support in public cloud environments)
- Deployment options of SAP solutions on Azure
- SAP product-specific support on Azure
- Operating System support for SAP on Azure
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Module 11: Monitoring and Troubleshooting SAP on Azure

Contains lessons on:

- General prerequisites (SAP support in public cloud environments)
- Deployment options of SAP solutions on Azure
- SAP product-specific support on Azure
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- Integrating SAP solutions with Microsoft cloud services

Module 7: Implementing Azure VM-based SAP Solutions

Contains lessons on:

- General prerequisites (SAP support in public cloud environments)
- Deployment options of SAP solutions on Azure
- SAP product-specific support on Azure
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Module 8: Module 8-Deploying HANA Large Instances (HLI)

Contains a lesson on:

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

training@globalknowledge.com.eg

www.globalknowledge.com/en-eg/

Global Knowledge, 16 Moustafa Refaat St. Block 1137, Sheraton Buildings, Heliopolis, Cairo