Planning and Administering Microsoft Azure for SAP Workloads

Online Course

Zetlan Technologies

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Planning and Administering Microsoft Azure for SAP Workloads

Course Modules

1. Migrate SAP workloads to Azure

Identify requirements for target infrastructure
- Estimate target sizing for SAP workloads
- Identify supported scenarios for SAP deployments on Azure
- Identify compute, storage, and network requirements
- Assess constraints imposed
- Identify software licensing requirements for target workloads
- Identify cost implications for target workloads
- Specify an Azure support plan for the target infrastructure
- Lift and shift, lift-shift-migrate, and lift-shift-migrate to HANA
- Appropriate SAP workload migration strategy & tools

Design and implement an Azure environment
- Design and implement authorization and access control
- Design and implement governance and compliance
- Design and implement authentication for SAP workloads
- Design and implement authentication
- Management hierarchy
- Design Azure landing zones for SAP

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2. Design and implement an infrastructure

Design and implement a compute solution for SAP workloads
- Choose an SAP-certified Azure virtual machine
- Configure the Azure VM extension for SAP solutions
- Deploy an operate system by using an Azure Marketplace image
- Create and deploy a custom image to an Azure virtual machine
- Automate a deployment of Azure virtual machines
- Automate a deployment by using the SAP
- Automate deployment by using Azure Center for SAP solutions

Design and implement network for SAP on Azure virtual machines
- Design and implement virtual networks and subnets
- Implement Accelerated Networking for Azure virtual machines
- Design and configure proximity placement groups
- Design networking to meet SAP workload latency requirements
- Design and implement network flow control
- Design and implement network security
- Design and implement service endpoints and private endpoints
- Design name resolution for integration with Azure DNS
- Design and configure ExpressRoute for hybrid connectivity
- Design and configure load balancing for a reverse proxy

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Design a storage solution for SAP on Azure virtual machines

- Choose a storage type
- Specify when to use disk striping and simple volumes
- Design for storage security considerations
- Design and implement data protection
- Design and implement caching for disks
- Configure Write Accelerator
- Configure encryption for storage, disks, and data
- Design and implement disks by using Azure NetApp Files
- Design and implement disks by using Azure Files

3. Design and implement HA/DR

Design and implement a high availability solution

- Design for service-level agreement (SLA) considerations
- SAP workloads into availability sets and availability zones
- Design and implement load balancing for high availability
- Configure clustering for HANA and SAP Central Services (SCS)
- Configure clustering for SQL
- Configure Pacemaker and STONITH
- Configure an Azure fence agent or STONITH Block Device (SBD)
- Design and configure storage-level replication for SAP workloads
- Configure virtual machine restart

Design and implement a disaster recovery solution

- Design and implement an Azure Site Recovery strategy
- Design a disaster recovery solution with regional considerations
- Specify network configurations for disaster recovery
- Design a backup strategy to meet SLA requirements
- Implement policies for backups and snapshots
- Configure and validate snapshots and backups for SAP workloads
- Perform backup and restore
- Test disaster recovery

4. Maintain SAP workloads on Azure

Optimize performance and costs

- Optimize performance and costs for an SAP workload
- Analyze and optimize network performance
- Costs by configuring snoozing and deploying reserved instances
- Performance and costs by resizing Azure virtual machines
- Optimize storage costs
- Performance and costs of SAP application servers and databases

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