Microsoft Certified: Azure for SAP Workloads Specialty – Skills Measured

NOTE: The bullets that appear below each of the skills measured are intended to illustrate how we are assessing that skill. This list is not definitive or exhaustive.

NOTE: In most cases, exams do NOT cover preview features, and some features will only be added to an exam when they are GA (General Availability).

Migrate SAP Workloads to Azure

Create an inventory of existing SAP landscapes

- network inventory
- security inventory
- computing inventory
- operations system inventory
- resiliency and availability inventory
- SAP Landscape architecture
- SAP workload performance SLA and metrics
- migration considerations

Design a migration strategy

- certified and support SAP Hana hardware directory
- design criteria for Tailored Datacenter Integration (TDI) v4 and v5 solutions
- databox with import and export
- HANA System Replication (HSR)
- ASR for SAP
- backup and restore methods and solutions
- infrastructure optimization for migration

Design an Azure Solution to Support SAP Workloads

Design a core infrastructure solution in Azure to support SAP workloads

- network topology requirements
- security requirements
- virtual or bare metal

- compute
- operating system requirements
- support SAP version
- storage requirements
- proximity placement group
- infrastructure requirements

Design Azure infrastructure services to support SAP workloads

- backup and restoration requirements
- SLA/High Availability
- data protection (EFS, LRS/GRS, Availability Zones)
- compliance
- monitoring
- licensing
- application interfaces
- dependencies

Design a resilient Azure solution to support SAP workloads

- HA models supported in HANA (N+N, N+0 and N+1)
- application servers
- SAP Central services
- availability sets
- availability zones
- Disaster Recovery (DR)
- Database HA

Build and Deploy Azure for SAP Workloads

Automate deployment of Virtual Machines (VMs)

- Azure Resource Manager (ARM) template
- automated configuration of VM
- scripting with automation tools, including script development, script modification, and deployment dependencies

Implement and manage virtual networking

- IDS/IPS for Azure
- routing fundamentals

- subnetting strategy
- isolation and segmentation for SAP landscape

Manage access and authentication on Azure

- custom domains
- Azure AD Identity Protection
- Azure AD join
- enterprise state roaming
- conditional access policies
- Role-based access control (RBAC)
- service principal
- just in time access

Implement and manage identities

- Azure AD Connect
- AD Federation and single sign-on
- LDAP/Kerberos/SSH
- Linux VMs Active Directory domain membership mechanism

Monitor SAP workloads on Azure

- Azure Enhanced Monitoring Extension for SAP workloads
- Azure Monitors
- workspaces & metrics

Validate Azure Infrastructure for SAP Workloads

Perform infrastructure validation check

- JMeter, Avalanch, Load Runner
- test implementation for SAP workloads
- verify network performance and throughput
- verify storage
- HWCCT (Hana)
- FIO and/or DD (AnyDB)

Perform operational readiness check

- backup and restore
- high availability checks

- failover test
- DR test
- print test

Operationalize Azure SAP Architecture

Optimize performance

- SAP workloads on Azure using ABAPmeter
- storage structure
- SAP workloads on Azure support pre-requisites
- scheduled maintenance for planned outages
- recovery plan for unplanned outages
- SAP application and infrastructure housekeeping (i.e. snapshots on OS volumes)
- bandwidth adjustment for ExpressRoute
- IPtables and GlobalReach for HANA Large Instances (HLI)

Migrate SAP workloads to Azure

- migration strategy
- Azure Site Recovery (ASR)
- private and public IP addresses, network routes, network interface, subnets, and virtual network
- storage configuration
- source and target environments preparation
- backup and restore of data