KochaSoft

SAP on Azure Training: 4-Day Workshop

www.Kochasoft.com/contact-us

KochaSoft™

Gold Microsoft Partner

Microsoft

Who We Are

- Approved Training partner for SAP on Azure
- Our hands-on training labs are the most advanced realistic customer scenarios for SAP on Azure
- Our Microsoft approved LMS solution is designed to guide leaners through specialized certification
- Headquartered in North America with presence in Asia, Africa, Europe and LATAM

KochaSoft Learning Journey – SAP on Azure

Foundation

Azure Fundamentals

- Cloud architectural components
- Core cloud products/services
- Security, privacy, compliance, and trust
- Pricing and support
- Service Level Agreements/Lifecycle
- Network Connectivity
- Data Storage Fundamentals
- Cloud Management Tools
- Identity Services
- Monitoring and Reporting
- Industry Compliance
- Type of cloud services
- Cloud deployment models
- Understanding DC, Regions, Geographies in Azure
- Links to free course material and recordings

Beginner

Azure Administrator

- Manage Azure subscriptions and resources
- Implement and manage storage
- Deploy and manage virtual machines (VMs)
- Configure and manage virtual networks
- Manage identities
- Manage resource groups
- Managed role bases access control
- Import/Export data to Azure
- Manage VM backups
- Configure name resolution
- Manage Azure Active Directory(AD)
- Implement multi-factor authentication (MFA)
- Links to free course material and recordings

Intermediate

SAP Basic to Azure

- Configure SAP NetWeaver with Any DB on Azure VMs
- SAP NetWeaver on Azure workflow
- Configure SAP S4 HANA on Azure VMs
- SAP HANA on Azure workflow
- Azure Large Instances for SAP HANA
- Identity services for SAP workloads
- Prerequisites for SAP workloads in the public cloud
- OS support of Azure for SAP workloads
- Azure VM security considerations for SAP workloads
- Create an inventory of existing SAP landscapes
- Manage access and authentication on Azure
- Links to free course material and recordings

Intermediate

Architecting SAP on Azure Boot Camp

- Introductions and Azure foundations for SAP
- Azure Core infrastructure for SAP
- Key design aspects for SAP on Azure
- Resiliency on Azure
- SAP deployments on Azure availability Zones
- SAP automation deployments
- SAP HANA Large instances
- SAP data protection – backup
- Security/SSO
- Azure NetApp Files for enterprise
- SAP deployment architecture examples and closing
- SAP Cloud Platform on Azure
- Microsoft Power Platform for SAP
- Azure Data & AI on Azure
- PaaS integration

Cloud Comparisons

Overview of Public Clouds

- Advantages of 3 major Cloud Platforms
- Differences between Clouds
- Implementation Guidance
- Challenges and dependencies

AZ-120 Certification Training / Prep

- Inventory of SAP Landscapes
- Data migration strategy
- SAP workloads on Azure
- Azure Infrastructure design
- Virtual Machines/HLI
- Hands on labs
- ASR for SAP
- HSR for SAP

Prerequisites

Advanced Technical Development

AZ-900 Microsoft Azure Fundamentals

AZ-103 – Administrator
AZ-300 - Architect

AZ-120 Planning and Administering Microsoft Azure for SAP Workloads

Certification Exams

SAP on Azure Bootcamp

- Advanced SAP on Azure is for Bootcamp attendees who have completed the following:
  - Foundation
  - Beginning
  - Intermediary sessions
- Four-day bootcamp with content presented in the morning session and hands on lab exercises available in the afternoon.
- Bootcamp will be delivered through virtual live sessions by two or more experienced trainers.
- Hands on Labs available during dedicated lab times with full lab support staff available to answer questions and help troubleshoot any issues.
- Remote assistance capabilities to allow support team direct assistance.
- Question and Answer test bank – accumulated questions from various sessions over the years.

Sample SAP on Azure Bootcamp Agenda*

Day One - Topics	Duration
Kick Off / Introductions	15
Introduction to Azure Foundations for SAP	30
Azure Core Infrastructure for SAP Certified Compute Engine	45
HLI	30
Break	15
Azure Storage Accounts with NetApp Files for the Enterprise	45
Networking	30
Wrap Up - Use Case Scenario	30
Lab 1 - Data Encryption Using Azure Key Vault	

Day Two - Topics	Duration
Review	15
Networking - Continued	30
Resiliency on Azure with Availability Sets and Zones	60
Break	15
SAP Data Protection	90
Wrap Up - Use Case Scenario	30
Lab 2 - Hana Backup with Azure	

Day Three - Topics	Duration
Review	15
HA / DR for SAP on Azure	60
Key Design Aspects for SAP on Azure	60
Break	15
Security / SSO Integration with SAP	60
Wrap Up - Use Case Scenario	30
Lab 3 - SSO with SAP HANA and Azure	

Day Four - Topics	Duration
Review	15
SAP Automation Deployments - SME Speaker	45
SAP Cloud Platform on Azure	30
Azure Data & AI on Azure	30
Break	15
Microsoft Power Platform for SAP	30
Case Study	75
Lab 4 - How to Script using Ansible and Terraform	
Lab 5 - SAP HANA and Azure Data Factory	

**Agenda is subject to change as continually update based on new technologies*

Learning Outcomes

By the end, training attendees will be able to…

- Migrate SAP to Azure
- Azure solution design for SAP
- Build and Deploy SAP on Azure
- Validate Azure Infrastructure for SAP
- Azure operations for SAP

Azure Solution Design for SAP

AZURE CORE INFRASTRUCTURE FOR SAP

- Network Topology Requirements
- Security Requirements
- Virtual or Bare Metal
- Operating System Requirements
- Support SAP Version
- Storage Requirements
- Proximity Placement Group
- Infrastructure Requirements

AZURE INFRASTRUCTURE DESIGN FOR SAP

- Backup and Restoration Requirements
- SLA/High Availability
- Data Protection (EFS, LRS/GRS, Availability Zones)
- Compliance
- Monitoring
- Licensing
- Application Interfaces
- Dependencies

DESIGN RESILENCE FOR SAP

- HA models supported in HANA (N+N, N+0 and N+1)
- Application servers
- SAP Central services
- Availability sets
- Availability Zones
- DR with Hero Regions
- Database HA

Sample SAP on Azure Labs: Azure Bootcamp Labs

**Labs are subject to change as continually updated based on new technologies*

DATA ENCRYPTION USING AZURE KEY VAULT

Objective

- The objective of this hands-on lab is to show how to implement data encryption to secure your data and how you can leverage Azure Active Directory for authentication.
- In this lab, you will implement data encryption using Azure Key Vault. You will utilize Azure resources including Azure Key Vault, Storage Account and integrating the authentication mechanism to leverage Azure Active Directory.

SAP HANA BACKUP WITH AZURE

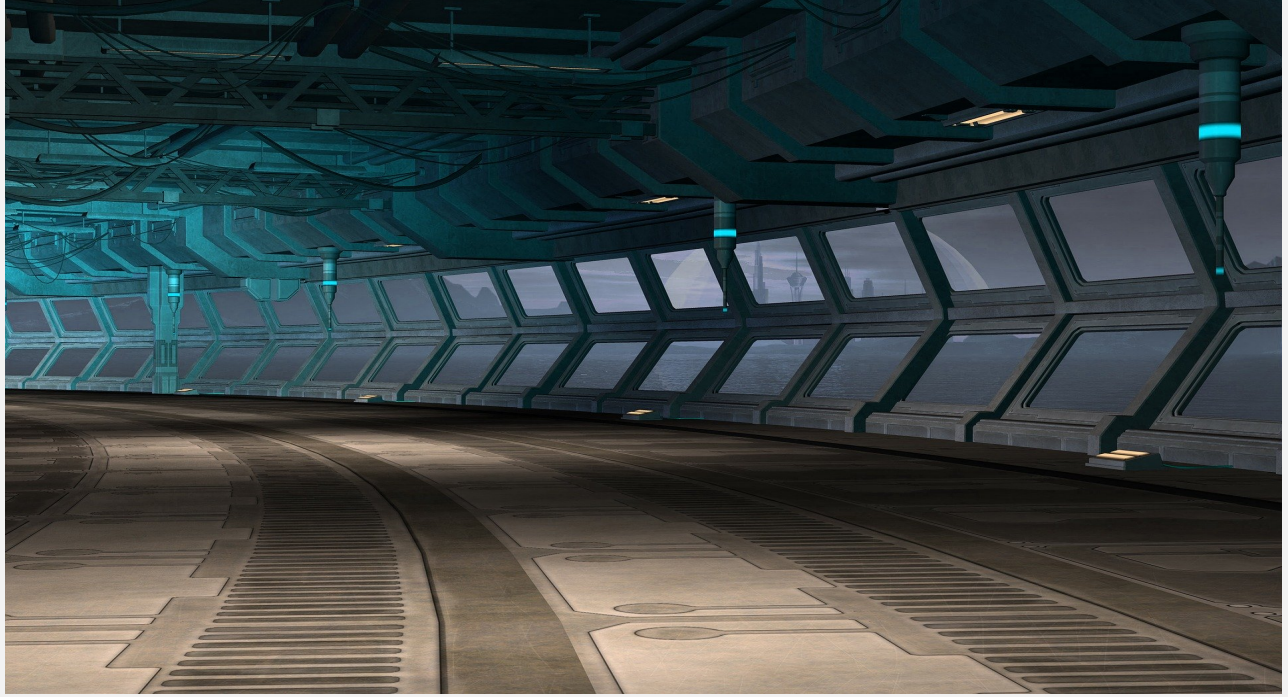
Objective

- The objective of this hands-on lab is to showcase the importance of a good reliable backup and how we can leverage Azure backup as a service.
- This lab will demonstrate how to configure Azure Backup Vault to support SAP HANA backups. You will discover the SAP HANA DB and configure the backups through backup policy. Then you will enable, run and confirm the results of the backup.

HANA HA (HA SCALE OUT)

Objective

- The objective of this hands-on lab is how to implement a High Availability configuration to support your HANA database.
- This lab will demonstrate how to enable HA by first creating three virtual machines for the scale out environment. Then you will utilize Azure NetApp Files service and create a volume accessible by the new VM's. Once you have attached to the new volume, you will install SAP into the Highly Available environment.



SAP on Azure Labs (Contd.): Azure Bootcamp Labs*

**Labs are subject to change as continually updated based on new technologies*

SSO WITH SAP HANA AND AZURE
Objective

- The objective of this hands-on lab is to show how to implement SSO with HANA and Azure by leveraging Active Directory and SAML.
- The lab will demonstrate how to access SAP HANA IDE to use SAML for your application while integrating with Azure Active Directory. You will also be setting up a Service Provider in HANA and Identity Provider in Azure to ensure HANA is using SAML authentication to provide SSO capabilities.

.

HOW TO SCRIPT USING JSON, ANSIBLE & TERRAFORM
Objective

- The objective of this hands-on lab is to give the user a introduction to the power of scripting and deploying SAP virtual machines at scale.
- The lab will demonstrate how to connect to the KochaSoft public repository on GitHub to view and download preconfigured scripts. You will then connect to a Terraform server and supply the configuration details for the VM's you want to automate. Once completed you will monitor the deployment process to validate the expected configuration.

SAP HANA AND AZURE DATA FACTORY
Objective

- The objective of this hands-on lab is to show how to take data located in different SQL cloud databases in Microsoft Azure Cloud and merge the data with SAP HANA to create a single view of the combined data.
- The lab will demonstrate how to execute this process by leveraging Azure SQL Data Warehouse as a common source where tables from the Azure SQL cloud database will be brought over and stored by using Azure Data Factory. This data will be merged with SAP HANA using SAP HANA Smart Data Access to create virtual tables.