



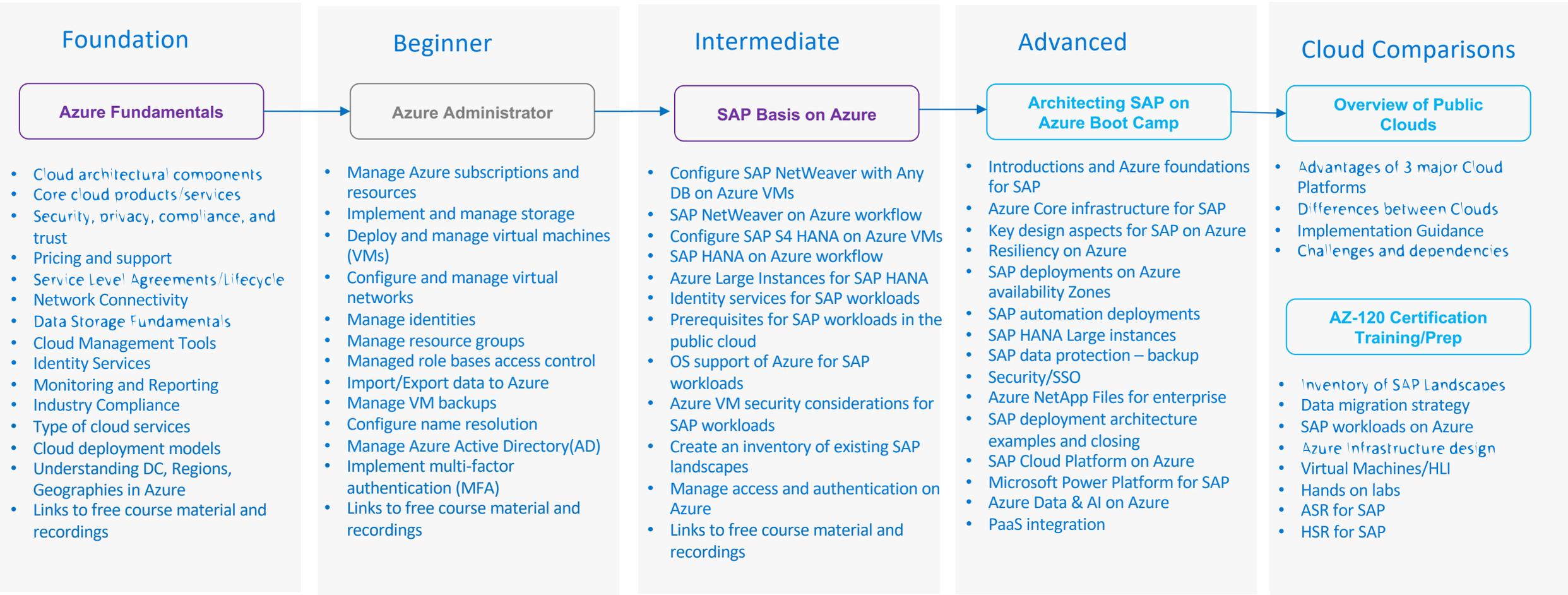
SAP on Azure Training

Kochasoft – 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 approved training instructors have delivered over 200 sessions globally and all our trainers have work on customer projects to bring in implementation expertise to training room
- Our Microsoft approved LMS solution is designed to guide learners through specialized certification
- Headquartered in North America with presence in Asia, Africa, Europe and LATAM

Kochasoft's Learning Journey – SAP on Azure



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

Advanced

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

SAP on Azure Virtual Bootcamp Agenda

Day	Topic	Duration
First Day	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	Topic	Duration
Third Day	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	Topic	Duration
Second Day	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	Topic	Duration
Fourth Day	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	

Skills Measured

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

Migrate SAP to Azure

SAP Landscape inventory

- Network Inventory
- Security Inventory
- Computing Inventory
- Operating System Inventory
- Resiliency and Availability Inventory
- SAP Landscape architecture
- SAP performance SLA and metrics

Design a migration Strategy

- Certified SAP Hana Hardware Directory
- TDI v4 and v5 solutions
- DataBox with Import/Export
- SAP Homogeneous migration
- ASR for SAP
- Backup and restore (methods and solutions)
- Infrastructure optimization for migration

Azure Solution design for SAP



Azure Core Infrastructure for SAP

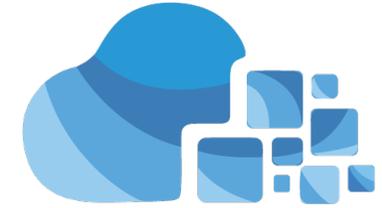
- Network Topology Requirements
- Security Requirements
- Virtual or Bare Metal
- Operating System Requirements
- Support SAP Version
- Storage Requirements
- Proximity Placement Group
- Infrastructure Requirements

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 resilience 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



KochaSoft™

SAP on Azure

Hands on Lab



SAP on Azure Labs

Azure Bootcamp Labs	Objective
Data Encryption using Azure Key Vault	<p>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.</p> <p>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.</p>
SAP HANA Backup with Azure HANA HA (HA Scale Out)	<p>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.</p> <p>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.</p> <p>The objective of this hands-on lab is how to implement a High Availability configuration to support your HANA database.</p> <p>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.</p>

SAP on Azure Labs

Azure Bootcamp Labs	Objective
SSO with SAP HANA and Azure	<p>The objective of this hands-on lab is to show how to implement SSO with HANA and Azure by leveraging Active Directory and SAML.</p> <p>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.</p>
How to script using JSON, Ansible and Terraform	<p>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.</p> <p>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.</p>
SAP HANA and Azure Data Factory	<p>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.</p> <p>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.</p>