# SAP HANA Admin Curriculum

## SAP HANA TECHNOLOGY OVERVIEW

- Introduction to SAP HANA SAP
- In-Memory Strategy
- In-Memory Computing
- Hardware-Innovations
- Software-Innovations
- SAP HANA simplified Architecture
- SAP HANA Extended Architecture
- Business Intelligence Clients with HANA
- HANA Columnar Store
- SAP HANA row store vs Columnar Storage
- SAP HANA VERSIONS

## Learn different versions of SAP HANA in this module

- HANA 1.0 SPS1
- HANA 2.0 SPS 2 – New Features

## SAP HANA EDITIONS

- SAP HANA Platform Edition
- SAP HANA Enterprise Edition
- SAP HANA Enterprise Extended Edition

## SAP HANA SIZING

## SAP HANA In-Memory Database Sizing elements

- RAM, Disk, CPU
- Memory Sizing CPU Sizing
- SAP HANA Scale Out

## SAP HANA PRE AND POST INSTALLATIONS

- Preparing SAP HANA Installation
- Reviewing SAP HANA Installation
- Post-Installation steps
- Understand about Memory computing studio, Switching between different views and about system monitor in HANA.
- In-Memory Computing Studio
- Administration view
- HANA Navigator View
- System Monitor in HANA
- Information Modeler

## HANA ARCHITECTURE

- Architecture Overview
- IMCE and Surroundings
- HANA Row Store
- Column Store
- Loading data into HANA
- Data Modeling in HANA
- Persistent Layer in HANA
- Backup & Recovery

## SAP HANA HARDWARE AND SOFTWARE REQUIREMENTS

- Prepare HANA Installation parameters
- Users created during HANA Installation
- HANA Required Installation media
- Prepare Installer Configuration file

## INSTALLING SAP HANA

- HANA Components installed by Installer
- Command based Installation
- GUI based HANA Installation

## SAP HANA TOOL OVERVIEW

- SAP HANA Studio
- DBA Cockpit
- HDBSQL Command Line Tool

## INSTALL HANA STUDIO

- Know the system requirements and supported
- Platforms to install SAP HANA studio.
- System Requirements
- Supported Platforms
- Install SAP HANA Studio

## HANA POST-INSTALLATION STEPS

- Starting and Stopping SAP HANA System
- Displaying Process List
- Logging on to HANA system using HANA studio
- HANA User Security
- Monitoring HANA Landscape

## SAP HANA OPERATION

- Starting & Stopping SAP HANA
- Starting SAP HANA Database
- Stopping SAP HANA Database
- Displaying Process List
- Monitoring HANA Landscape
-  Periodic Manual Tasks

## DATA PROVISIONING USING SLT

- Positioning and benefit of SLT for SAP HANA
- Key benefits of Trigger-Based Approach
- Architecture and building Blocks
- Architecture for SAP Source Replication
- Architecture for NON-SAP Source Replication
-  Set-up of LT replication server
- Installation Aspects
- Configuration Steps for SLT replication server
- Setup Data Replication
- Database-Supportability
- Landscape strategy of SLT replication server
-  SLT replication server Installation Options
- Technical Requirements and system setup

## BODS

- Creating Data sources

## SAP HANA DIRECT EXTRACTOR CONFIGURATION

- Introduction to SAP HANA Direct Extractor
- CONNECTION (DXC)
- Learn, how to enable the services, setup, configuration, and also to provide connections for SAP HANA.
- Limitations of DXC
- Setup and Configurations
- Enabling Services
- HTTP Connection and Test Connection

## MAINTAINING USERS & AUTHORIZATIONS (SAPHANA SECURITY)

- Create Users
- User and Role Concept
- Creating Roles
- Assigning Privileges to Roles
- Privileges
- SQL Privileges
- System Privileges
- Analytic Privileges
- Reporting and Privileges
- Modelling required Privileges

## SAP HANA DB BACKUP AND RECOVERY

- System Configuration Parameters
- Monitoring and system state parameters
- Backup & Recovery SAP HANA
- Need of Backup
- Backup Types
- Data Backup
- Log Backup
- Recovery Options
- Recovery in Replication Scenarios
- Backup to External Backup Destinations
- Recovery Scenarios
- Power Failure
- Disk Failure

## MONITORING AND TROUBLESHOOTING

- Configuring Remote Support
- Solution Manager Integration
- Remote Service Connection
- Availability Monitoring
- Setting up Monitoring
- System Monitoring Setup
- Status Overview
- Services Overview
- System Load History
- Disk Usage Details
- Checking System Configuration, Alerts

## SAP HANA LOGS & TRACES

- Regular administration tasks
- Troubleshooting
- Analyzing performance

## REPLICATION

- Configure System Replication for System
- Enable System Replication
- Registering Secondary System
- Unregistering Secondary System
- Perform Takeover

## HANA TABLE Administration

- Table partitioning (Hash/Range)

## MULTI DATABASE CONTAINERS

- Single System DB to MDC
- Creating Tenant DB
- Dropping Tenant DB
- Cross Tenant DB access

## SAP HANA COCKPIT 2.0

- Introducing SAP HANA Cockpit 2.0
- Installing SAP HANA Cockpit 2.0
- Install SAP HANA Cockpit 2.0
- Configuring SAP HANA Cockpit 2.0
- Configure and Open SAP HANA Cockpit 2.0



**KEY FEATURES**

- Instructor-led Sessions
- Learn from Experts
- Assignments
- 24 x 7 Support
- Real-time Case Studies
- Get Certified

## For More Info:

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