

## SAP HANA ADMINISTRATION Course Content

### **SAP HANA Technology Overview**

- ❖ Introduction to SAP HANA
- ❖ SAP In-Memory Strategy
- ❖ HANA compare to BWA
- ❖ 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**

- ❖ HANA 1.0 SPS03
- ❖ HANA 1.0 SPS04—NEW Features
- ❖ HANA 1.0 SPS05—NEW Features
- ❖ HANA 1.0 SPS06—NEW Features
- ❖ HANA 1.0 SPS07—NEW Features
- ❖ HANA 1.0 SPS08—NEW Features
- ❖ HANA 1.0 SPS09—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

### **Look and Feel**

- ❖ In-Memory Computing Studio
- ❖ Administration view
- ❖ Navigator View
- ❖ System Monitor
- ❖ Information Modeler

### **SAP HANA Hardware and software Requirements**

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

### **Installing SAP HANA**

- ❖ SAP HANA unified Installer Tool
- ❖ Unified Installer to install the Sap HANA SERVER
- ❖ Components installed by Installer
- ❖ Command based Installation
- ❖ GUI based Installation
- ❖ SAP HANA Tool Overview
- ❖ SAP HANA Studio
- ❖ DBA Cockpit
- ❖ HDBSQL Command Line Tool
- ❖ Install HANA Studio
- ❖ System Requirements
- ❖ Supported Platforms
- ❖ Install SAP HANA Studio
- ❖ Post-Installation Steps
- ❖ Starting and Stopping SAP HANA System
- ❖ Displaying Process List
- ❖ Logging on to HANA system using HANA studio
- ❖ 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

### **SAP HANA Direct Extractor Configuration**

- ❖ Introduction to SAP HANA Direct Extractor
- ❖ Connection (DXC)
- ❖ Limitations of DXC
- ❖ Setup and Configurations
- ❖ Enabling Services
- ❖ HTTP Connection
- ❖ Test Connection

## Architecture

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

## 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 Information
- ❖ Configuring HANA Studio for importing Metadata
- ❖ Importing Metadata
- ❖ Mass Import
- ❖ Selective Import
- ❖ Load Data Via Data services into SAP HANA

## 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
- ❖ Modeling required Privileges

## 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
- ❖ Auditing SAP HANA
- ❖ Global Audit Configuration
- ❖ Manage Audit Policies
- ❖ Audit Events
- ❖ Audit Trail
- ❖ Updating SAP HANA STUDIO
- ❖ Software Lifecycle Management

## 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