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

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