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SAP HANA ADMINISTRATION

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

Architecture

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

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

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

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

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

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
- Auditing SAP HANA
- Global Audit Configuration
- Manage Audit Policies
- Audit Events
- Audit Trail

Updating SAP HANA STUDIO Software Lifecycle Management