



SAP S4 HANA ADMINISTRATION



About Course

Experience in monitoring, tuning, and troubleshooting of SAP HANA systems. HANA system administration using SAP HANA Cockpit and HANA Studio. Experience in managing users and roles in SAP HANA system.

SAP S/4 HANA ADMINISTRATION

CURRICULUM

1 SAP HANA Technology Overview

SAP HANA Introduction

Understanding the need of In Memory Technologies

Understanding High performance Analytics

In-Memory Computing

SAP HANA row store vs Columnar store

2 SAP HANA Edition

Software Packaging

SAP HANA Platform Edition

SAP HANA Enterprise Edition

3 SAP HANA Deployment Scenarios

HANA as DataMart

Non-Native HANA Applications

Native HANA Applications

SAP HANA Archticture

Simplified Architecture of SAP HANA

SAP HANA Memory Management and Data Persistence

4

Preparing Installation

Sizing of SAP HANA

Quick sizer

Sizing Requirements and assumptions

Experiencing HANA Appliance Models

5

Operating Systems

Operating Systems Supported (SLES&RHEL)

Linux Operating System Requirements

File System Preparation

6

Installation

Introduction SAP HANA Lifecycle Management Tools

Install a Single-Host SAP HANA System

7

Post Installation

Post-Installation Steps

SAP HANA Studio installation

SAP HANA Client Installation

Admin Tools for SAP HANA

SAP HANA Studio and SAP HANA Cockpit

Connect to the SAP HANA Database Using SAP HANA Studio

DBA Cockpit

HDBSQL Command Line Tool

8

Database Administration

Starting and Stopping SAP HANA

Use Different Methods to Start and Stop the SAP HANA Database

HANA database services and their significance

Understanding Service Instances

Understanding the Run level parameter

Configuring the SAP HANA Database

Change SAP HANA Configuration Parameters

9

Backup And Recovery

Concept of Backup and Recovery

Need of Backup

Data Area Backup

Understanding Backup Destinations

Understanding BACKINT

Performing Data backup using HANA Studio,

Sql Commands, DBA

Cockpit, HANA Cockpit

Scheduling backups using DBA Cockpit,

HANA Cockpit, Backup script

Log Area Backup

Understanding the concept of Log area backup

Handling LOGFULL situations

10

Security

Security Overview

Understanding levels of security

Understanding security in different scenarios

Authentication and Authorization

Encryption

Auditing and audit policy

11

Maintaining Users And Authorization

User Management

Creating users using HANA Studio and Web IDE

Types of Privileges

Working with Analytic privileges

Roles

Creating runtime Roles

Creating Repository Roles using Web IDE

Administrative Tasks

Information Sources for Administrators

12

Hana Application Life Cycle Management

Concept of HANA Development

Understanding Catalog and Content objects

Transporting using Export and Import

Concept of Deliver Unit

Setting up Transportation landscape
Configuring Transport Routes
Concept of CTS in SAP HANA

13 Multi Tenant Database Containers

Architecture and Technology
Installing MDC
Creating and Configuring Tenant Databases
Administration of Multi tenant Database Containers
Backup and Recovery of Multi tenant Database Containers
Convert a Single container to a multitenant System

14 Higher Availability And Disaster Tolerance

Need of Scalability
SAP HANA Scale up and Scale Out
Understanding Distributed database
High availability concept
Disaster Recovery
Configuring system replication

15 Database Operations

SAP HANA Table Administration
Periodic Tasks
Housekeeping activities

**Delta Merge
SQL Console**

16

Monitoring And Troubleshooting

Memory Monitoring

Understanding the Processing

Analyzing Queries

Working with Plan Visualizer

Load Monitoring

Alert Configuration

Configuring Traces

Working with Diagnosis Information and Diagnosis Files

Troubleshooting unresponsive system

17

Monitor And Administration Of SAP HANA Using

Installing SAP HANA Cockpit 2.0

Working with Cockpit Manager

Creating Resource Groups and adding Resources

Monitoring activities using Cockpit 2.0

Understanding new features of Cockpit 2.0



www.softcrayons.com



(+91) 854 501 2345



@softcrayons



info@softcrayons.com



693, Sector 14-A, Vasundhara,
Ghaziabad (U.P.), 201012