SAP HAN 2.0 SPS05- Installation and Administration

Course outline

Module 1: Introduction to SAP HANA 2.0 SPS05

Module 1 of the SAP HANA 2.0 SPS05- Installation and Administration course provides an introduction to the SAP HANA 2.0 SPS05 platform. It covers topics such as the architecture of the platform, the installation process, and the administration of the system. It also provides an overview of the various tools and technologies used to manage and monitor the system.

Lessons

- Overview of SAP HANA 20 SPS05
- Prerequisites for Installing SAP HANA 20 SPS05
- Installation of SAP HANA 20 SPS05
- System Configuration of SAP HANA 20 SPS05
- Backup and Recovery of SAP HANA 20 SPS05
- Security and Authorization in SAP HANA 20 SPS05
- Performance Tuning in SAP HANA 20 SPS05
- Troubleshooting SAP HANA 20 SPS05
- Monitoring and Alerting in SAP HANA 20 SPS05
- Upgrading to SAP HANA 20 SPS05

After completing this module, students will be able to:

- Understand the architecture of SAP HANA 2.0 SPS05 and its components.
- Install and configure SAP HANA 2.0 SPS05.
- Manage and monitor SAP HANA 2.0 SPS05.
- Troubleshoot and optimize SAP HANA 2.0 SPS05.

Module 2: System Requirements and Prerequisites

Module 2 of the SAP HAN 2.0 SPS05- Installation and Administration course provides an overview of the system requirements and prerequisites for successful installation and administration of the SAP HANA platform. It covers topics such as hardware and software requirements, system sizing, and installation options. It also provides guidance on how to configure the system for optimal performance.

Lessons

- Overview of SAP HANA 20 SPS05
- System Requirements for SAP HANA 20 SPS05
- Prerequisites for Installing SAP HANA 20 SPS05
- Installation of SAP HANA 20 SPS05
- Post-Installation Configuration of SAP HANA 20 SPS05
- Administration of SAP HANA 20 SPS05
- Backup and Recovery of SAP HANA 20 SPS05
- Troubleshooting SAP HANA 20 SPS05
- Security and Authorization in SAP HANA 20 SPS05
- Monitoring and Performance Tuning of SAP HANA 20 SPS05

After completing this module, students will be able to:

- Understand the system requirements and prerequisites for installing and administering SAP HANA 2.0 SPS05.
- Identify the hardware and software components necessary for a successful installation.
- Configure the system to meet the requirements for SAP HANA 2.0 SPS05.
- Troubleshoot any issues that arise during the installation process.

Module 3: Installation and Configuration

Module 3 of the SAP HAN 2.0 SPS05- Installation and Administration course covers the installation and configuration of the SAP HANA system. It provides an overview of the installation process, including prerequisites, system requirements, and installation steps. It also covers the configuration of the system, including setting up users, roles, and privileges, as well as configuring the system for optimal performance.

Lessons

- Overview of SAP HANA 20 SPS05
- Prerequisites for Installing SAP HANA 20 SPS05
- Installation of SAP HANA 20 SPS05
- Configuration of SAP HANA 20 SPS05
- Post-Installation Tasks for SAP HANA 20 SPS05
- Backup and Recovery Strategies for SAP HANA 20 SPS05
- Troubleshooting SAP HANA 20 SPS05
- Security and Authorization in SAP HANA 20 SPS05
- Performance Tuning for SAP HANA 20 SPS05
- Monitoring and Maintenance of SAP HANA 20 SPS05

After completing this module, students will be able to:

- Understand the architecture of SAP HANA 2.0 SPS05 and its components.
- Install and configure SAP HANA 2.0 SPS05 on a single node or multiple nodes.
- Configure the SAP HANA system for high availability and disaster recovery.
- Monitor and maintain the SAP HANA system for optimal performance.

Module 4: System Administration

Module 4 of the SAP HAN 2.0 SPS05- Installation and Administration course covers the fundamentals of system administration, including setting up and managing user accounts, configuring system security, and troubleshooting system issues. It also covers topics such as system monitoring, backup and recovery, and system performance optimization.

Lessons

- Overview of SAP HANA 20 SPS05 Installation and Administration
- Prerequisites for Installing SAP HANA 20 SPS05
- Installing SAP HANA 20 SPS05
- Configuring SAP HANA 20 SPS05
- Managing SAP HANA 20 SPS05
- Troubleshooting SAP HANA 20 SPS05
- Security and Authorization in SAP HANA 20 SPS05
- Backup and Recovery in SAP HANA 20 SPS05
- Monitoring and Performance Tuning in SAP HANA 20 SPS05
- Upgrading SAP HANA 20 SPS05

After completing this module, students will be able to:

- Understand the architecture of SAP HANA 2.0 SPS05 and its components.
- Install and configure SAP HANA 2.0 SPS05.
- Manage and monitor SAP HANA 2.0 SPS05.
- Troubleshoot and resolve issues related to SAP HANA 2.0 SPS05.

Module 5: Security and User Management

Module 5 of the SAP HAN 2.0 SPS05- Installation and Administration course covers the topics of security and user management. It provides an overview of the security features available in SAP HANA, including authentication, authorization, and encryption. It also covers user management, including creating and managing users, roles, and privileges. Finally, it covers the various tools available for monitoring and managing user access.

Lessons

- Overview of Security and User Management in SAP HANA 20 SPS05
- Configuring User Authentication and Authorization
- Managing User Roles and Privileges
- Setting Up User Groups and Profiles
- Implementing Password Policies
- Auditing User Activity
- Securing Data with Encryption
- Troubleshooting Security Issues
- Best Practices for Security and User Management

After completing this module, students will be able to:

- Understand the different security roles and authorization objects in SAP HANA.
- Configure user authentication and authorization in SAP HANA.
- Create and manage user accounts and roles in SAP HANA.
- Implement security measures to protect the SAP HANA system from unauthorized access.

Module 6: Backup and Recovery

Module 6 of the SAP HAN 2.0 SPS05- Installation and Administration course covers the fundamentals of backup and recovery. It provides an overview of the different types of backups, how to configure and manage backups, and how to restore data in the event of a system failure. It also covers best practices for backup and recovery, as well as troubleshooting tips.

Lessons

- Overview of Backup and Recovery Strategies
- Configuring Backup and Recovery Settings
- Scheduling and Automating Backups
- Restoring Data from Backups
- Troubleshooting Backup and Recovery Issues
- Best Practices for Backup and Recovery
- Disaster Recovery Planning
- Implementing High Availability Solutions
- Monitoring Backup and Recovery Performance
- Security Considerations for Backup and Recovery

After completing this module, students will be able to:

- Understand the different types of backup and recovery strategies available in SAP HANA 2.0 SPS05.
- Implement backup and recovery procedures for SAP HANA 2.0 SPS05.
- Monitor and troubleshoot backup and recovery processes.
- Configure and manage backup and recovery policies.

Module 7: Performance Monitoring and Tuning

Module 7 of the SAP HAN 2.0 SPS05- Installation and Administration course covers the topics of performance monitoring and tuning. It provides an overview of the tools and techniques used to monitor and optimize the performance of SAP HANA systems. It also covers topics such as system monitoring, performance analysis, and performance tuning.

Lessons

- Overview of Performance Monitoring and Tuning
- Analyzing Performance with SAP HANA Studio
- Configuring Performance Monitoring

- Tuning SAP HANA Memory Usage
- Optimizing SAP HANA Performance
- Troubleshooting Performance Issues
- Monitoring and Tuning SQL Statements
- Monitoring and Tuning SAP HANA System Resources
- Monitoring and Tuning SAP HANA System Services
- Monitoring and Tuning SAP HANA System Logs

After completing this module, students will be able to:

- Understand the different performance monitoring tools available in SAP HANA 2.0 SPS05.
- Utilize the performance monitoring tools to identify and troubleshoot performance issues.
- Implement best practices for performance tuning and optimization.
- Monitor and analyze system performance to ensure optimal performance.

Module 8: Troubleshooting and Maintenance

Module 8 of the SAP HAN 2.0 SPS05- Installation and Administration course covers troubleshooting and maintenance techniques for SAP HANA systems. It provides an overview of the various tools and techniques available for troubleshooting and maintenance, as well as best practices for ensuring the stability and performance of SAP HANA systems.

Lessons

- Troubleshooting Common Installation Issues
- Troubleshooting Common Configuration Issues
- Troubleshooting Common Performance Issues
- Troubleshooting Common Security Issues
- Troubleshooting Common Network Issues
- Troubleshooting Common Database Issues
- Troubleshooting Common User Interface Issues
- Troubleshooting Common Backup and Recovery Issues
- Troubleshooting Common System Administration Issues
- Troubleshooting Common System Monitoring Issues
- Troubleshooting Common System Maintenance Issues
- Troubleshooting Common System Upgrade Issues
- Troubleshooting Common System Migration Issues
- Troubleshooting Common System Patching Issues
- Troubleshooting Common System Troubleshooting Issues
- Troubleshooting Common System Performance Tuning Issues
- Troubleshooting Common System Troubleshooting Tools
- Troubleshooting Common System Troubleshooting Techniques
- Troubleshooting Common System Troubleshooting Best Practices
- Troubleshooting Common System Troubleshooting Documentation

After completing this module, students will be able to:

- Identify and resolve common issues related to SAP HANA 2.0 SPS05 installation and administration.
- Utilize the SAP HANA 2.0 SPS05 system monitoring and troubleshooting tools.
- Perform regular maintenance tasks to ensure optimal system performance.
- Implement best practices for system security and data protection.

Module 9: Upgrading and Migrating to SAP HANA 2.0 SPS05

Module 9 of the SAP HANA 2.0 SPS05- Installation and Administration course covers the process of upgrading and migrating to SAP HANA 2.0 SPS05. It provides an overview of the upgrade process, including prerequisites, planning, and execution. It also covers the migration of data and objects from other databases to SAP HANA 2.0 SPS05. Finally, it provides an overview of the post-migration tasks and best practices.

Lessons

- Overview of SAP HANA 20 SPS05
- Prerequisites for Installing SAP HANA 20 SPS05
- Installation of SAP HANA 20 SPS05
- Upgrading to SAP HANA 20 SPS05
- Migrating to SAP HANA 20 SPS05
- System Administration of SAP HANA 20 SPS05
- Backup and Recovery Strategies for SAP HANA 20 SPS05
- Security and Authorization in SAP HANA 20 SPS05
- Performance Tuning in SAP HANA 20 SPS05
- Troubleshooting SAP HANA 20 SPS05

After completing this module, students will be able to:

- Understand the architecture of SAP HANA 2.0 SPS05 and its components.
- Install and configure SAP HANA 2.0 SPS05 on different platforms.
- Perform system upgrades and migrations to SAP HANA 2.0 SPS05.
- Monitor and troubleshoot SAP HANA 2.0 SPS05 systems.

Module 10: Advanced Topics in SAP HANA 2.0 SPS05

Module 10 of the SAP HANA 2.0 SPS05 Installation and Administration course covers advanced topics such as high availability, disaster recovery, security, and system replication. It also covers the installation and configuration of the SAP HANA database, as well as the monitoring and troubleshooting of the system. This module provides an in-depth look at the features and capabilities of SAP HANA 2.0 SPS05, and provides the necessary skills to successfully install, configure, and maintain the system.

Lessons

- Overview of SAP HANA 20 SPS05 Installation and Administration
- System Requirements for SAP HANA 20 SPS05
- Installation and Configuration of SAP HANA 20 SPS05

- Managing SAP HANA 20 SPS05 System Landscape
- Backup and Recovery Strategies for SAP HANA 20 SPS05
- Performance Tuning and Optimization of SAP HANA 20 SPS05
- Security and Authorization in SAP HANA 20 SPS05
- Troubleshooting and Monitoring of SAP HANA 20 SPS05
- Advanced Administration Tasks in SAP HANA 20 SPS05
- Automation and Scripting in SAP HANA 20 SPS05

After completing this module, students will be able to:

- Understand the architecture of SAP HANA 2.0 SPS05 and its components.
- Install and configure SAP HANA 2.0 SPS05.
- Manage and monitor SAP HANA 2.0 SPS05.
- Troubleshoot and optimize SAP HANA 2.0 SPS05.