System Administration of Windchill

Training Course Description

3 day course

Summary

In this course, you will gain an understanding of how to perform routine Windchill system administration tasks, including how to manage Windchill services and optimize Windchill components for performance. You will focus on daily, weekly, and monthly system maintenance tasks required by the Windchill system administrators. You will also learn how to implement file vaulting and content replication. Other topics that will be reviewed include managing the Windchill database, troubleshooting background queues, improving workflow performance, optimizing visualization publishing process, managing users licenses and setting up the client environment.

This course is intended for System Administrators and Application Developers.

Software: Windchill Base, Advanced or Premium

Course Topics:

Day 1
Module 1 Introduction to the Windchill System Environment
Module 2 Managing Windchill Services
Module 3 Managing Windchill Properties
Module 4 File Vaulting and Replication Overview
Module 5 Implementing File Vaults
Module 6 Implementing Content Replication

Day 2
Module 7 Tuning Windchill Server
Module 8 Managing Background Queues
Module 9 Managing Your Visualization Publishing System
Module 10 Tuning Workflow Processes
Module 11 Windchill Backup and Recovery
Module 12 Managing Log Files and Alerts

Day 3
Module 13 Windchill License Management
Module 14 Daily System Monitoring Tasks
Module 15 Weekly System Monitoring Tasks
Module 16 Monthly System Monitoring Tasks
Module 17 Setting Up the Client Environment
Module 18 Miscellaneous System Enhancements

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Details

Introduction to the Windchill System Environment
i. Client Requirements
ii. The Windchill Server
iii. The Windchill Database
iv. Optional Servers
v. Role of the System Administrator
vi. Understanding Windchill Contexts
vii. Windchill Product Characteristics
viii. Windchill Library Characteristics
ix. Using Folders
x. Data Management Objects
xi. Iteration and Revision Controls
xii. Access Controls
xiii. Process Controls
xiv. Understanding the Windchill User Interface
xv. Using the Navigator
xvi. Navigating Products and Libraries
xvii. Locating Information
xviii. Understanding Information Pages
xix. Accessing Help
Knowledge Check Questions
Managing Windchill Services
i. Identifying Major Windchill Services
ii. Starting/Stopping Apache Web Server
iii. Starting and Stopping Windchill Directory Server
iv. Starting/Stopping Oracle
v. Starting/Stopping SQL Server
vi. Starting/Stopping Windchill
vii. Running Apache as a Windows Service
viii. Windchill Directory Server Control Panel
ix. Running Windchill Directory Server as a Service
x. Running Windchill as a Windows Service
xi. Automating Windchill Startup
xii. Automating Windchill Shutdown

Managing Windchill Properties
i. System Administration Utilities
ii. The Windchill Command
iii. The Windchill Shell
iv. Windchill Configuration Properties Files
v. The site.xconf File
vi. The JMX Clients
vii. Using JConsole to Modify Property Values
viii. The xconfmanager Utility
ix. The xconfmanager - Options
x. The xconfmanager - Example
xi. The xconfmanager - Validate Changes
xii. Properties Managed by Windchill Configuration Assistant

xiii. Creating a Custom XCONF File
File Vaulting and Replication Overview
i. File Vaulting
ii. File Storage Options
iii. Local File Vaulting Architecture
iv. Content Replication
v. Content Replication Architecture
vi. Windchill File Servers
vii. Centrally Vaulted Content
viii. Remotely and Centrally Vaulted Content
ix. File Vaulting Strategies
x. Types of File Vaults
xi. Checking an Object into a Windchill Main Server
xii. Requesting Objects That Have Not Yet Been Replicated
xiii. Requesting Objects from File Servers That Are Not Preferred
xiv. Server to Server Replication
xv. Content Synchronization and Replication
xvi. Local Replication for File Servers
xvii. Configuring Windchill File Vaults to Use Amazon S3 Storage

Implementing File Vaults
i. Planning External File Storage
ii. Multiple Vaults Configuration
iii. Vaulting Rules
iv. Single Vault Configuration
v. Implications of Forcing Contents into a Single Vault
vi. Single Vault versus Multi Vault Configuration
vii. Vaults with Automatic Folder Creation
viii. The Central Cache Vault
ix. Setting Up External Storage
x. Specifying File Threshold Value for Vaults
xi. Managing Revaulting
xii. Maintaining Vaults
xiii. Changing the Location of Files in Vaults
xiv. The Default System Target Vault

Implementing Content Replication
i. Installing the File Server - Requirements
ii. Enabling Remote File Server Support
iii. Generating the Security Key
iv. Using the File Server Management Utility
v. Registering the File Server
vi. Configuring Replica Vaults
vii. Creating Replication Rules
viii. Creating Replication Schedules
ix. Replication Performance and Scalability

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