

Control-M 22: Fundamentals Administering

[Learning Path >](#)

Course Code: AUTO-CMFA-9220

Modality

Instructor-Led Training (ILT)

Duration

4 Days

Applicable Versions

Control-M 9.0.22.000

Target Audience

- Administrators

Course Overview

This course provides instruction and hands-on practice in the administration and customization options of the distributed systems Control-M solution. Control-M is a monitoring and management tool for the enterprise batch-scheduling environment. It allows users to manage job processing across all distributed systems platforms supported by instances of Control-M/Server and Control-M/Agent.

Prerequisites

- Control-M 22: Concepts Overview (WBT)
- Control-M 21.x: Comparing Web Interface with Client Interface (WBT)

Recommended Training

- Control-M 22: Concepts for Operators and Schedulers (WBT)
- Control-M 22: Fundamentals Operating (ILT)

Learning Objectives

- Explain the Control-M architecture tiers
- Identify the contents of Control-M/EM and Control-M/Server databases
- List Control-M users, roles, and authorizations
- Outline steps to configure a new Control-M environment
- Understand the job lifecycle and the New Day Process
- Access Control-M Web, open Viewpoints, and define basic OS jobs
- Manage the Control-M/EM, Control-M/Server and Control-M/Agents via Control-M Web and the CLI
- Explain the Control-M/EM, Control-M/Server and Control-M/Agent processes and their purpose
- Start, stop, and monitor Control-M/EM, Control-M/Server and Control-M/Agent processes using the CLI
- Troubleshoot Control-M/Server to Control-M/Agent connectivity
- Configure Run As Users and related OS security settings (Windows & UNIX/Linux)
- Explain Agentless Hosts, configure SSH/WMF
- Define and manage Host Groups
- Update system parameters and time zone settings
- Configure alerts, notifications, and email integration
- Install and configure Application Plug-ins and Connection Profiles
- Set up External Vault integration
- Implement High Availability for the Control-M/EM and Control-M/Server
- Monitor, backup and restore the Control-M databases
- Enable Audit and Annotations
- Define and generate Reports
- Troubleshoot using debug mode, health checks, and log analysis

Course Modules

Module 1: Control-M Architecture

- Explain the Control-M architecture tiers
- List the contents of the Control-M/Enterprise Manager and Control-M/Server databases
- List the Control-M users and roles
- List the high-level configuration steps for a new Control-M environment
- Understand the lifecycle of a job
- Explain the New Day Process
- Access the Control-M Web interface
- Open a Viewpoint
- Define basic OS jobs

Module 2: Control-M/EM Components

- Manage the Control-M/EM in Control-M Web
- Sort, filter and group tables in Control-M
- Explain each Control-M/EM process and its purpose
- Startup, shutdown and check the status of Control-M/EM processes using the command line interface
- Utilize the ctl command
- Explain and use the Control Shell
- Add a Control-M/EM component

Module 3: Control-M/Server Components

- List and explain the Control-M/Server processes
- Manage the Control-M/Server using the Control-M Web interface
- Start, stop, monitor and manage the Control-M/Server using the Command Line Interface

Module 4: Control-M/Agent Components

- Manage Control-M/Agents from Control-M Web
- List and explain the Control-M/Agent processes
- Update Control-M/Agent properties
- Explain and set the Control-M/Agent connection modes
- Start and stop Control-M/Agents
- Troubleshoot Server to Control-M/Agent connectivity

Module 5: Control-M/Agent Security

- Explain what Run As Users are and why they are needed
- Add Run As Users
- Describe and set the Windows parameter "Logon as User"
- Configure Windows Local Security Policies for Control-M Run As Users
- Change the Control-M Agent Windows Service account
- Describe and set the Linux/UNIX Agent Modes

Module 6: Agentless Hosts

- Explain what Agentless Hosts are and their advantages and disadvantages
- Understand how to configure a Java-Based Agentless Host on UNIX
- Define and manage SSH and WMI Agentless Hosts
- Generate SSH Keys
- Define WMI Agentless Host requirements

Module 7: Host Groups

- Define and manage Host Groups
- Create host Participation Rules
- Create Agent Restrictions

Module 8: System Parameters

- Update EM, Server and Agent system parameters
- Update commonly modified EM, Server and Agent system parameters
- Manually update time zones
- Configure Automatic Time Zone Management

Module 9: Notifications

- Explain the purpose of Alerts and Exception Alerts
- Access Exception Alerts
- Send Alerts and Exception Alerts via SNMP
- Configure Alert and Exception Alert system parameters
- Configure Notification Destinations
- Configure email integration

Module 10: Application Plug-ins

- Explain what Application Plug-ins are and how they function
- Download and install an Application Plug-in
- Create Centralized Connection Profiles
- Configure External Vault integration using CyberArk

Module 11: High Availability

- Describe the role and function of EM and Server software managed high availability
- Failover and fallback an EM or Server
- Configure the Failover Mode
- Configure database replication for a Server installation with a dedicated PostgreSQL database

Module 12: Authorizations

- Explain how Authorizations work in Control-M
- Define a User and a Role
- Integrate Control-M with an External Authentication provider
- Define a User View

Module 13: Database Maintenance

- Monitor EM and Server databases
- Manage Control-M databases using command line utilities
- Backup and restore the Control-M databases

Module 14: Auditing and Reporting

- Explain and enable Audit and Annotation
- Define the Audit and Annotation Categories
- Access and run Control-M Reports
- Run a Usage Report
- Configure Usage Alerts

Module 15: Troubleshooting

- Explain the troubleshooting process in Control-M
- Place Control-M processes into debug mode
- Run the Health Check Utility
- Identify and parse process logs
- Access and use BMC Support Central

Discount Options

Have multiple students? Contact us to discuss hosting a private class for your organization.

Contact us for additional information 