

McAfee® Drive Encryption Administration Course

Intel Security Education Services Administration Course



The McAfee Drive Encryption Administration course from McAfee Education Services provides attendees with hands-on training on the design, setup, configuration, and management of this application. In addition, students will understand how to effectively implement the software in a complex enterprise.

Course Goals

- Install Drive Encryption.
- Synchronize with Active Directory.
- Protect endpoints.

Agenda At A Glance

Day 1

- Security Connected
- Managing Dashboards and Monitors
- Using the Policy Catalog and Managing Policies
- McAfee Agent
- Overview of Encryption Technologies and Computer Boot Concepts

Audience

System and network administrators, security personnel, auditors, and/or consultants concerned with network and system security should take this course.



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Course Description

Agenda At A Glance Continued

Day 2

- Introduction to McAfee Drive Encryption
- ePO Installation of DE
- Active Directory Configuration
- Drive Encryption Users
- Installing DE onto Clients

Day 3

- Offline Activation
- Drive Encryption Policies
- DE Dashboards and Reports
- DE Administrative Users

Day 4

- Troubleshooting DE
- Recovery Configuration
- Disaster Recovery with DETech
- DE Scripting
- Uninstall

- Classroom Lab Topology Intro
- IP Addresses and Credentials Intro
- Using VMware Workstation Intro
- Using the Lab Guide Intro

Module 1: McAfee Security Connected and ePolicy Orchestrator Overview Security Evolution

- The 'Computer' Timeline
- McAfee Security Connected
- Breadth and Depth for Security
- ePO Solution Overview
- ePO Basic Solution Components
- Basic Solution Components
- How ePO Works
- Essential Features
- ePO Web Interface
- Interface: Menu Page
- Menu PageReporting
- Menu PageSystems
- Menu PagePolicy
- Menu PageSoftware
- Menu PageAutomation
- Menu PageUser Management
- Customizing the User Interface
- Architecture and Communication
- User Interface
- Functional Process Logic
- Data Storage
- Check Your Understanding

Recommended Pre-Work

It is recommended that students have a working knowledge of Microsoft Windows administration, system administration concepts, a basic understanding of computer security concepts, and a general understanding of Internet services.

Course Outline

About the Course

- Course Overview Intro
- Topics Intro
- Resources Intro
- Acronyms and Terms Intro
- McAfee Education Services Intro
- McAfee Technical Support Intro
- McAfee Security Content Release Notes Intro
- Product Enhancement Request Intro
- McAfee Community Intro
- Helpful Links Intro

Module 2: Managing Dashboards and Monitors

- Dashboards Overview
- Accessing the Dashboards Page
- McAfee Default Dashboards (Read-only)
- Other McAfee Dashboard Options
- Using Dashboards
- Duplicating a Dashboard
- Adding a Dashboard

Course Description

Assigning Dashboard Permissions
Dashboard Permissions Guidelines
Deleting a Dashboard
Adding Monitors to a Dashboard
Dashboards Server Settings
Editing the Automatic Refresh Interval
Assigning Default Dashboards
Configuring Dashboard Monitors
Moving and Resizing Dashboard Monitors
Moving a Dashboard Monitor
Resizing a Dashboard Monitor
Removing Monitors from a Dashboard
Concurrent Users (Console Connections)
Recommendations
Designing Dashboards
Changing the Default Session Timeout
Check Your Understanding

Module 3: Using the Policy Catalog and Managing Policies

What is a Policy?
Policy Catalog Page
Creating a New Policy
Editing a Policy
Duplicating a Policy
Renaming or Deleting a Policy
Policy Assignment and Inheritance
Viewing Policy Assignments
Locking Assignment and Enforcement
Assigning Policy to Group System Tree
Assigning Policy to Single System
Assigning Policy to Multiple

Managed Systems
Viewing and Resetting Broken Inheritance
Resetting Broken Inheritance
Copying and Pasting Assignments
When Policies are Enforced
Permission Set for Policies
Check Your Understanding

Module 4: McAfee Agent

New for McAfee Agent 4.8
McAfee Agent
Agent ComponentsAgent
Agent ComponentsScheduler
Agent ComponentsUpdater
How ePO Server Uses Agent GUID
Agent-to-Server Communication Interval
ASCI Communication Interruption Handling
Agent-to-Server Communication
Agent-Server Secure Communication Keys
Communication after Agent Installation
Typical Agent-to-Server Communication
McAfee Agent-to-Product Communications
Forcing Agent Activity from Server
Wake-up Calls and Wake-up Tasks
Configuring Agent Wake-up
Using System Tray Icon
Forcing McAfee Agent Activity from Client
Viewing McAfee Agent Log
Sorting McAfee Agent Log
Reviewing Agent Log Information
SuperAgents

Course Description

SuperAgent Communication
Agent Files and Directories
Sitelist.xml
McAfee Agent Log Files
Using Log Files
Installation Folders
Check Your Understanding
Lab Exercises

Module 5: Overview of Encryption Technologies and Computer Boot Concepts

Safeguarding Data
Protection from Data Loss
Data Privacy Laws
Safeguarding Data with Encryption
Difference Between Disk and File Encryption
Difference Between Disk and File Encryption
Common Enterprise Requirements
Check Your Understanding
Encryption Concepts
Basics of Encryption
Importance of Key Length
Symmetric Keys
Advanced Encryption Standards
Key Exchange
Asymmetric Keys
Cryptographic Hash Functions
Authentication Methods
The Computer Boot Process
The Computer Boot Process
Boot Process
Computer Boot
Check Your Understanding

Module 6: Introduction to McAfee Drive Encryption

Drive Encryption Defined

McAfee Data Protection Portfolio for Endpoint
Security Features of Drive Encryption
Check your Understanding
Drive Encryption Components
Drive Encryption Overview (from ePO Server)
Drive Encryption Overview (from Client)
DE Pre-Boot Environment
System Boot Sequence – No DE Encryption
System Boot Sequence – With DE Encryption
McAfee Drive Encryption
DE Keys
DE Tokens
DE Key Storage
User Logon Process
Authentication Security Models for Windows
GINA Logon Process with DE
Credential Provider Logon Process with DE
User Passwords
Resources
Check your Understanding

Module 7: Solidcore Client

Pre-Installation Considerations
Before Installing DE 7.1
Pre-Installation Considerations
Network Considerations – Open Ports
ePO Server Hardware Requirements
ePO Software Requirements
Client Requirements
Drive Encryption Software

Course Description

McAfee Download Site
Supported Tokens and Readers
Check your Understanding
Downloading the Software
DE Installation
DE Menus
DE Server Settings
General and PC Software Settings
Simple Passwords and Tokens
Non-compatible Software and Themes
Theme Modification
Check your Understanding
Lab Exercises

Module 8: Active Directory Configuration

Summary of the Installation Process
LDAP Authentication
Active Directory
Configuration Workflow
Populating the ePO System Tree with AD
Registering LDAP Servers in ePO
Registering LDAP Servers
Troubleshooting Registered LDAP Servers
Verifying AD Login in ePO
Check your Understanding
Mapping System Tree Structure with AD
System Tree – Managed Systems
Synchronizing AD with ePO System Tree
LDAP Synchronization Task for DE
LDAP Synchronization for DE
LDAP Synchronization
Lab Exercises

Module 9: DE Users

DE Users
DE User Menu
Adding a DE User to a System
View a DE User Added to a System
Adding DE Users – Automated
Blacklist Rule with ALDU
User Group Inheritance in ePO
Adding Group Users to Systems
Deleting a DE User From a System
Check your Understanding
Lab Exercises Only

Module 10: Installing DE onto Clients

Summary of the Installation Process
DE Client Deployment Process
Client Requirements Review
Pre-Installation Considerations Review
Pre-Installation Considerations
Pre-Installation – Drive Encryption Go
Deploying DE Agent and Software
Verifying EEPC Installation
Verifying Installation
Events on the Client
New Processes on the Client
System Details After Default Policies Deploy
Deployment
Check your Understanding
Lab Exercises

Module 11: Offline Activation

Offline Activation Overview
Offline Activation Walk-Through
Check your Understanding

Module 12: Drive Encryption Policies

Summary of the Installation Process

Course Description

Overview of Policies
Policy Application and Inheritance
Check your Understanding
DE Policies Overview
DE Product Settings Policy
User Experience
User Based Polices
Enforce UBP Configuration
Policy Scenario
Policy Assignment Rule
Policy Assignment Rule – User Based Example
Check your Understanding
Lab Exercises

Module 13: DE Dashboard and Reports

DE Reports and Queries
Default Reports
Example Report Output
Actionable Reports
Creating a New Query
Dashboards
DE Dashboard and Monitors
Managing a Dashboard
Check your Understanding
Lab Exercises Only

Module 14: DE Administrative Users

Purpose of Administrative Users
Automatic Administrative Users in ePO
Creating Automatic Administrative Users in ePO
Automatic Administrative Users in ePO
Permission Sets
Permission Sets Explained
Creating a DE Permission Set
Manually Creating a DE

Administrative User
ePO View with DE Permission Set
Check your Understanding
Lab Exercises

Module 15: Troubleshooting DE

Troubleshooting DE
Researching the Problem
Current Known Issues
Interaction between AntiVirus and DE
Knowledge Base Articles
Help Files
Machine Info Report
Minimum Escalation Requirements (MER)
Collect Additional Information
Log Files for ePO Server
Enabling Orion.log Debugging
Restarting SQL Processes on ePO Server
Log Files for McAfee Agent
Viewing the Agent Log File
Debug Logging on the Client
MfeEpe.log
DE Error Codes and Messages
LDAP Synchronization Issue
Agent Activation Issue
Check your Understanding
Lab Exercises

Module 16: Recovery Configuration

DE Recovery Options
Traditional Self Recovery Configuration
Self Recovery of User Password
Reset Self-Recovery
Smartphone Self-Recovery
Administrative Recovery

Course Description

Administrative Recovery – ePO
Administrator
Check your Understanding
Lab Exercises Only

Module 17: Disaster Recovery with DETech

Disaster Recovery Needs and Scenarios
Requirements for Disaster Recovery
Capabilities of each Disk Type
Creating DETech using Bart PE
EZPE Builder for Data Recovery
EZPE Builder for Data Recovery
Windows Assessment and Deployment Kit
Windows Assessment and Deployment Kit (Video)
Windows Assessment and Deployment Kit 8.1
Customize – Start with Phase
Phase EZPE Builder (Bit)
Customize – End with Phase
Make a Bootable USB/CDROM
EZSA Builder for Data Recovery
Exporting Recovery Information from ePO
Check your Understanding
Booting the EZPE Recovery USB\CD
Booting EETech Recovery CD
Operations
Authorization and Authentication
ActionsWorkspace
Emergency Boot
Decrypting with Remove EE
Crypt Sectors
Force Decrypt
Restore MBR
Edit Disk Crypt State

Repair Disk Information
Set Algorithm
Set Boot Disk
Check your Understanding
Lab Exercises

Module 18: DE Scripting

Scripting Overview
Python Client
ePO Scripting
DE Scripting
Check your Understanding
Lab Exercises

Module 19: Uninstalling DE & Upgrade Overview

Steps in Uninstall
Disable DE Policies – For All Systems
Modify Policy – Break Inheritance
Modify Policy – On Single System
View Decryption from Dashboard
View Policy Update in Agent Monitor
Decrypted Client System
Remove DE from Client
Check your Understanding
Manually Uninstalling from a Client
Check your Understanding
Migration
End User Experience
OS Refresh
Lab Exercises Only

Module 20: Endpoint Assistant

The Beginning – Starting with the UBP Policy
Product Settings – Companion Devices
User Based Policies – Companion Devices
New System – Register Smartphone

Course Description

PBFS – Default Password and
Logging on
PBFS – First Time Password Change
User Password Recovery Questions
Downloading the Endpoint
AssistiPhone
Scan QR Code with Endpoint Assist
Endpoint Assistant – The QR Code
Scenario: I forgot my password!
Administrator / Smartphone
Recovery
Smartphone time!
Enter the code into Line
Enter the code into Line
Finishing up!
Troubleshooting – Re-Register your
System on EA
Module 21: McAfee Data Protection
Self Service Portal (DPSSP)
What is the Self Service Portal?
Important
Software needed
Instructions
Server Settings
Edit DPSSP Settings
[https://mld-epo:dpssp/
selfRecovery](https://mld-epo:dpssp/selfRecovery)



To order, or for further information,
please contact McAfee Education
at:
1-866-210-2715.

NA, LTAM, and APAC:
education@mcafee.com

EMEA:
proserv@mcafee.com