

OMNCPI (OPERATION MANAGEMENT NETWORK WITH CISCO PRIME INFRASTRUCTURE 3.X) 3.x

Objetivo

Esse curso proporciona aos administradores e engenheiros de rede os conhecimentos necessários para realizar as atividades em operação e suporte em uma rede corporativa cabeada e sem fio, utilizando o produto Cisco Prime Infrastructure 3.X. Ao término deste treinamento, você deverá ser capaz de:

- Descrever os conceitos fundamentais em gerenciamento de redes, e as características e funcionalidades do Cisco Prime Infrastructure;
- Gerenciar e operar a gestão do inventário de rede com o Cisco Prime Infrastructure;
- Gerenciar e operar a gestão da rede utilizando as ferramentas do Cisco Prime Infrastructure;
- Gerenciar, monitorar e configurar equipamentos através dos arquivos de configurações no Cisco Prime Infrastructure;
- Monitorar e realizar atividades de suporte na rede com o Cisco Prime Infrastructure;
- Realizar tarefas administrativas de sistema no Cisco Prime Infrastructure.

Público Alvo

O público primário inclui os indivíduos os profissionais que demandam conhecimentos para operação e monitoramento em uma solução Cisco Prime Infrastructure 3.x.

Pré-Requisitos

Para maior aproveitamento é recomendado que o aluno possua conhecimentos básicos e suas terminologias em redes cabeadas (referência CCNA Routing & Switching) e sem fio (CCNA Wireless). Conhecimentos e práticas em processos de administração e suporte em redes são desejáveis.

Carga Horária

24 horas (3 dias).

Conteúdo Programático

Cisco Prime Infrastructure Overview

- Defining Network Management
- FCAPS Model
- Benefits of Network Management

Network Management Process

- Performing Network Management
- Management: Protocol & Standards
- Defining MIB
- SNMP Protocol

- SNMP GET Request and Response
- SNMP SET Request
- SNMP Version and Security Levels
- Using SNMP Polling
- Using SNMP Traps

Cisco Prime Infrastructure Architecture

- CPI & Networks Management
- Cisco Prime Infrastructure Features
- Cisco Prime Infrastructure Tools
- Benefits & Advantages
- Preparing Device Integration
- CPI & MSE Integration
- CPI & ISE Integration
- Cisco Prime Infrastructure Licensing Model

Getting Started with Cisco Prime Infrastructure

- CLI Interface Overview
- CLI Interface Commands
- Stop and Start the Server
- Password Reset
- Repository Creation
- Backup Operation
- Restore Operation
- Patch Installation
- Cisco Prime Infrastructure GUI Overview
- Using Started Guide
- Cisco Prime Infrastructure Menus
- User Preferences
- Change Password of Logged in User

Monitoring CPI Server Settings

- Basic Server Settings
- Alarms and Events Settings
- Data Retention Settings
- Mail Server Configuration
- Server Settings
- License Management
- Monitoring Network Inventory
- Different Types of Credentials
- Add Devices to the Inventory
- View Device Status
- Device Details Page
- Monitoring the Network Inventory
- Using Device 360° Views
- View Network Device Reports
- Monitoring Using Devices Groups

Monitoring Devices Software Images

- CPI Software Images Repository
- Distribute Software Images
- View Software Image Recommendations
- Perform an Image Upgrade Analysis
- Distribute Image
- Verify Image Upgrade

Operating Cisco Wireless Networks

- Wireless Site Maps Overview
- Manage Wireless Sites Maps
- Add and monitoring APs to the Floor Buildings
- Monitoring Floor View Settings

CPI & Network Topology Maps

- Using Network Topology
- Topology Maps Management
- Drill Down vs. Expand

CPI & Configuration Management

- Configuration Archives
- Archive Management Overview
- Configuration Archive Management Options
- Configuration Templates for Wired Devices
- Features and Technologies Folder
- CLI Templates
- System-Defined CLI Templates
- User-Defined CLI Templates
- Configurations for Wireless Devices
- Wireless Devices Support
- Wireless Configuration Templates and Tools

CPI & Monitor and Troubleshoot

- Monitoring Devices and Interfaces
- Device Data Collection: Polling vs. Traps
- Dashboards and Dashlets
- Alarms and Events
- Device and Interface Reports
- Monitoring the Wireless Network
- Wireless Data Collection
- Wireless Dashboards and Dashlets
- Cisco MSE Services
- Cisco CleanAir
- Finding Interference Sources
- Wireless Alarms and Events
- Wireless Reports
- Application Data Collection: NetFlow and NAM
- Application Dashboards and Dashlets

- Application Baseline and Service Health
- Health Rules
- Service Health Dashboard
- Application Reports

CPI & Managing Clients and Users

- Monitor Clients and Users
- Client Troubleshooting
- Other Troubleshooting Tools
- User 360° View
- Client Profiling
- Client Profiling With Cisco ISE
- Client Profiling Without Cisco ISE

Generating Reports

- Report Launch Pad Overview

CPI & System Administration

- Operation CPI Server
- Admin Dashboard
- Device Details
- Statistics
- Reports

Laboratórios

- Lab 1: Access Cisco Prime Infrastructure
- Lab 2: Populate the Network Inventory
- Lab 3: Manage the Network Inventory
- Lab 4: Manage Groups
- Lab 5: Manage Device Software Images
- Lab 6: Manage Wireless Maps
- Lab 7: Manage Network Topology Services
- Lab 8: Manage the Configuration Archive
- Lab 9: Manage Wired Device Templates
- Lab 10: Manage Wireless Device Configurations
- Lab 11: Monitor Devices and Interfaces
- Lab 12: Monitor the Wireless Network
- Lab 13: Track Clients, Users and Applications
- Lab 14: Generate Reports