

ESC300 (CISCO ELASTIC SERVICES CONTROLLER) 2.0

Objetivo

After taking this course, you should be able to: Describe the Cisco ESC architecture and the VNF lifecycle Explain how to install and maintain Cisco ESC in an OpenStack or VMware environment Explain how to manage VM resources in Cisco ESC Explain how to deploy and configure new VNFs Explain how to monitor, scale, and heal VNFs Describe Cisco ESC integration with Cisco NSO and how to create a VNF solution

P blico Alvo

System installers System integrators System administrators Network administrators Solutions designers

Pr -Requisitos

Before you take this course, we recommend that you have the knowledge and skills that can be obtained by attending the Cisco Network Services Orchestrator Foundation (NSO201) class, which includes: Basic knowledge of the command line of UNIX-like operating systems Basic knowledge of Network Configuration Protocol (NETCONF) Basic knowledge of OpenStack Basic knowledge of Yet Another Next Generation (YANG) data modelling Basic knowledge of Python or Java software development

Carga Hor ria

8 horas (1 dias).

Conte do Program tico

Outline

Cisco ESC Architecture

Cisco ESC Architecture in the European Telecommunications Standards Institute (ETSI) Management and Orchestration (MANO) Framework

VNF Lifecycle in Cisco ESC

Cisco ESC Installation and Upgrade

Cisco ESC Installation on OpenStack

Cisco ESC Upgrade on OpenStack

Cisco ESC High Availability on OpenStack

Cisco ESC Installation on VMware and Kernel-based Virtual Machine (KVM)

Cisco ESC Post-Installation Tasks

Managing VM Resources in Cisco ESC

VM Resource Management Overview

Managing Tenants

Managing Networks and Subnets

Managing Images and Flavors

Deploying and Configuring Virtual Network Functions
Deployment Data Model
Day-Zero Configuration
Placement Rules
Deploying VNFs in OpenStack
Deploying VNFs in VMware
Deployment Notifications
Monitoring, Scaling, and Healing Virtual Network Functions
Cisco ESC Key Performance Indicator (KPI) and Rules Data Model
Monitoring VNF Health and Healing
Monitoring VNF Load and Scaling
Custom Metrics and Actions
Dynamic Mapping
VNF Operations
Cisco ESC Integration
Cisco ESC Northbound APIs
Cisco NSO Integration
Virtual Multiprotocol Label Switching (MPLS) VPN
Resource Manager
VM Management Service

Lab outline

Installing Cisco ESC on OpenStack
Managing VNFs on OpenStack with Cisco ESC
Deployment Scaling
Custom Metrics and Custom Actions
Cisco ESC Integration with Cisco NSO