Replacement of OSPD Server UCS 240M4 - CPS

Contents

Introduction
Background Information
Abbreviations
Workflow of the MoP
Prerequisites
Status Check
Backup
Install the New OSPD Node
UCS Server Installation

Redhat Installation
Restore the Undercloud
Prepare Undercloud Installation Based on Backup
Complete the Redhat Registration
Undercloud Restoration
Reconnect the Restored Undercloud to the Overcloud
Validate the Completed Restore
Check Identity Service (Keystone) Operation
Upload Images for Future Node Introspection
Restarting Fencing
Related Information

Introduction

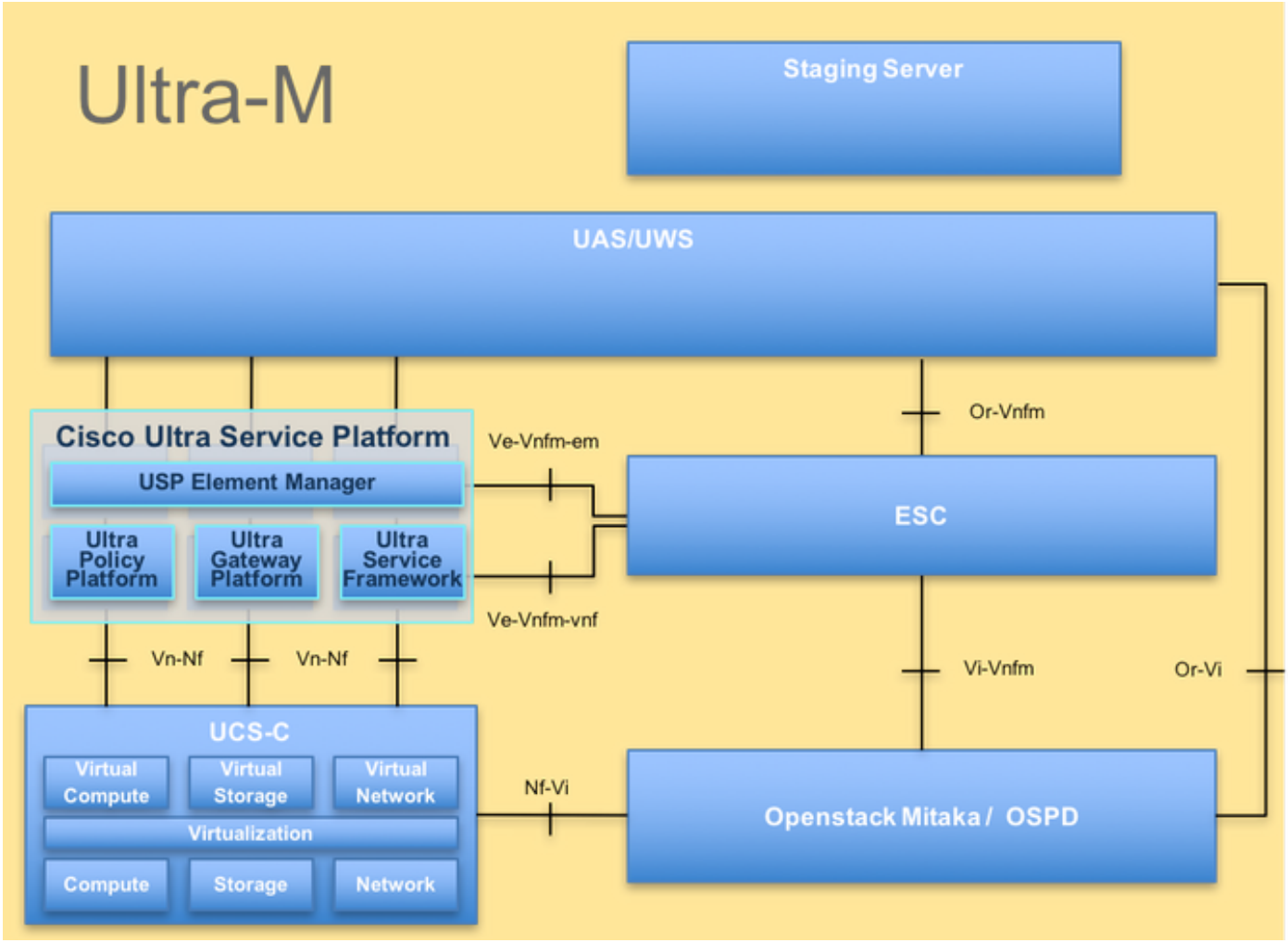
This document describes the steps required to replace a faulty server that hosts the OpenStack Platform Director (OSPD) in an Ultra-M setup.

Background Information

Ultra-M is a pre-packaged and validated virtualized mobile packet core solution designed to simplify the deployment of VNFs. OpenStack is the Virtualized Infrastructure Manager (VIM) for Ultra-M and consists of these node types:

- Compute
- Object Storage Disk - Compute (OSD - Compute)
- Controller
- OpenStack Platform - Director (OSPD)

The high-level architecture of Ultra-M and the components involved are as shown in this image.



UltraM Architecture

Note: Ultra M 5.1.x release is considered for defining the procedures in this document. This document is intended for the Cisco personnel familiar with Cisco Ultra-M platform and it details the steps required to be carried out at OpenStack level at the time of the OSPD Server replacement.

Abbreviations

VNF	Virtual Network Function
ESC	Elastic Service Controller
MOP	Method of Procedure
OSD	Object Storage Disks
HDD	Hard Disk Drive
SSD	Solid State Drive
VIM	Virtual Infrastructure Manager
VM	Virtual Machine
EM	Element Manager
UAS	Ultra Automation Services
UUID	Universally Unique IDentifier

Workflow of the MoP