

Replacement of Controller Server UCS C240 M4 - vEPC

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Introduction

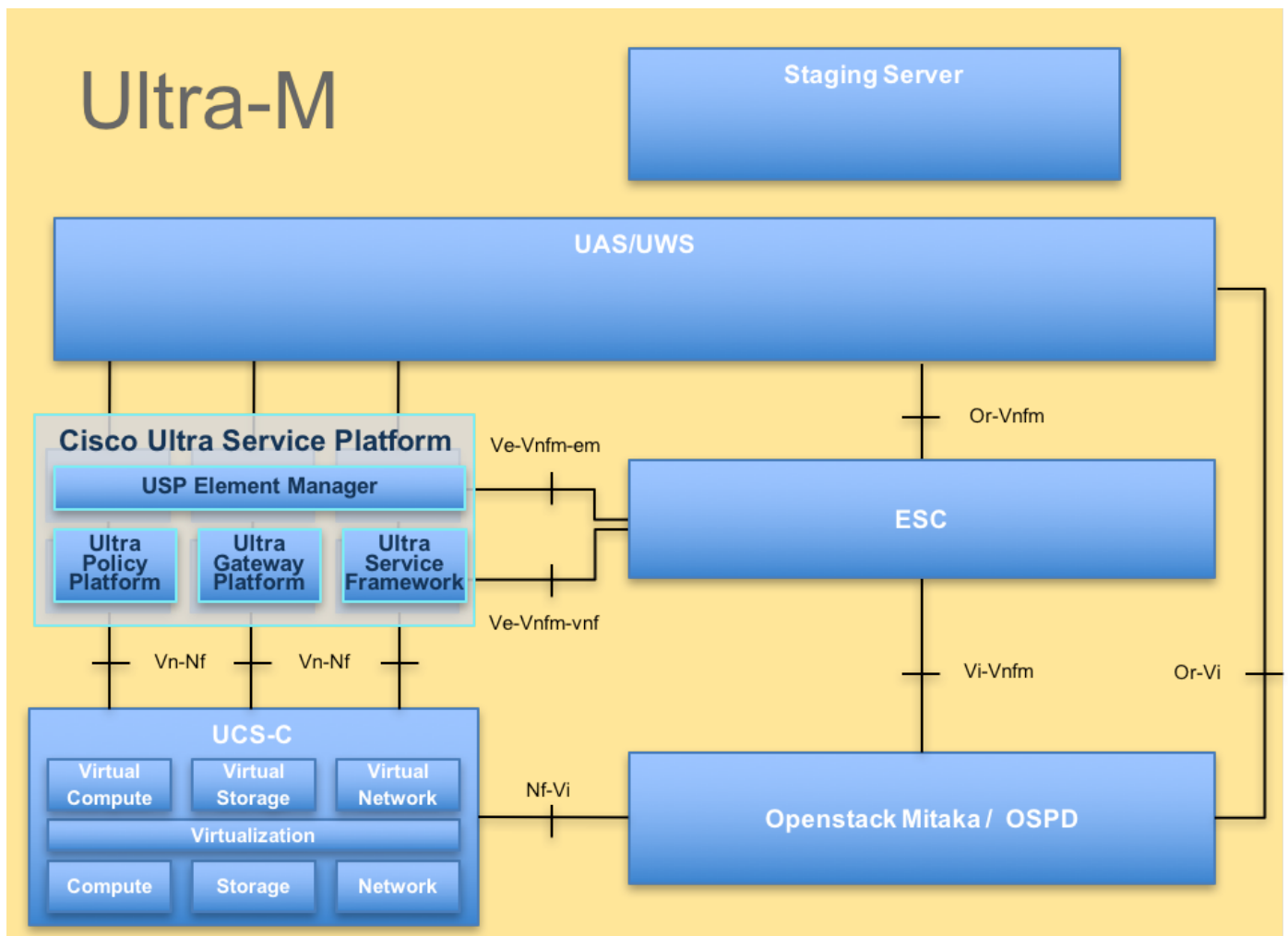
This document describes the steps required to replace a faulty controller server in an Ultra-M setup that hosts StarOS Virtual Network Functions (VNFs).

Background Information

Ultra-M is a pre-packaged and validated virtualized mobile packet core solution that is designed in order 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 depicted in this image:



UltraM Architecture

This document is intended for Cisco personnel who are familiar with Cisco Ultra-M platform and it details the steps that are required to be carried out at OpenStack and StarOS VNF level at the time of the Controller Server Replacement.

Note: Ultra M 5.1.x release is considered in order to define the procedures in this document.

Abbreviations

VNF	Virtual Network Function
CF	Control Function
SF	Service 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

