■ NetApp

Deployment procedures

FlexPod

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Deployment procedures

This document provides details for configuring a fully redundant, highly available FlexPod Express system. To reflect this redundancy, the components being configured in each step are referred to as either component A or component B. For example, controller A and controller B identify the two NetApp storage controllers that are provisioned in this document. Switch A and switch B identify a pair of Cisco Nexus switches.

In addition, this document describes steps for provisioning multiple Cisco UCS hosts, which are identified sequentially as server A, server B, and so on.

To indicate that you should include information pertinent to your environment in a step, <<text>> appears as part of the command structure. See the following example for the vlan create command:

Controller01>vlan create vif0 <<mgmt_vlan_id>>

This document enables you to fully configure the FlexPod Express environment. In this process, various steps require you to insert customer-specific naming conventions, IP addresses, and virtual local area network (VLAN) schemes. The table below describes the VLANs required for deployment, as outlined in this guide. This table can be completed based on the specific site variables and used to implement the document configuration steps.



If you use separate in-band and out-of-band management VLANs, you must create a layer- 3 route between them. For this validation, a common management VLAN was used.

AN Name	VLAN Purpose	ID Used in Validating This Document
Management VLAN	VLAN for management interfaces	3437
Native VLAN	VLAN to which untagged frames are assigned	2
NFS VLAN	VLAN for NFS traffic	3438
VMware vMotion VLAN	VLAN designated for the movement of virtual machines from one physical host to another	3441
Virtual machine traffic VLAN	VLAN for virtual machine application traffic	3442
iSCSI-A-VLAN	VLAN for iSCSI traffic on fabric A	3439
iSCSI-B-VLAN	VLAN for iSCSI traffic on fabric B	3440

The VLAN numbers are needed throughout the configuration of FlexPod Express. The VLANs are referred to as <<var xxxx vlan>>, where xxxx is the purpose of the VLAN (such as iSCSI-A).

The table below lists the VMware virtual machines created.

Virtual machine description	Host name
VMware vCenter Server	

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