

VCE Vblock Systems Administration and Management

Course Outline

LAB 1. Capturing the Vblock System Configuration Baseline

Establish a Vblock System Configuration Baseline

UCS Manager GUI: Capture Compute Resource Configuration

UCS Manager CLI: Capture Compute Resource Configuration

EMC Unisphere for VNX: Capture VNX Storage Configuration Information Navisphere CLI: Capture VNX Storage Configuration using

Solutions Enabler CLI: Capture VMAX Storage Configuration (Optional)

NX-OS CLI for MDS Switch: Capture Storage Area Network (SAN) Configuration NX-OS CLI for Nexus 5548: Capture Network Configuration

vSphere Web Client: Explore vCenter Configuration

Collecting Support Information with VCE Vision and vSphere

LAB 2. VCE Vision: Administration

VCE Vision Intelligent Operations Utilization Vision System Library Administration

LAB 3. VCE Vision Plug-in for vCenter Install VCE Vision Plug-in for vCenter

LAB 4. Additional UCS Configuration Options

Modifying the time zone setting using UCS Manager

Adding a network time protocol server using UCS Manager

LAB 5. Monitoring for Component Errors or Failures

Vblock System Events Log Browser

UCS Fault Detection Storage Alerts

LAB 6. Vblock System Assurance

Running Compliance Scans Installing New Certification Matrixes Installing Optional components in a Compliance Scan

Installing the latest VMware vSphere ESXi

5.1 patch

LAB 7. Proactive Monitoring

Validating SNMP Setting within the UCS Validating SNMP on the MDS switches Validating SNMP on Nexus 5K Switches Validating SNMP on VNX

Validating SNMP trap forwarding in EMC Unisphere

Configure UCS Threshold Policies Syslog Management

Using VCE Vision SNMP in Network Management Systems

Testing System Library Configuration

LAB 8. Service Profile Templates and Service Profiles

Modifying an Initial Service Profile Template

Modifying the Service Profile by Bind to an Initial Service Profile Template Cloning a Service Profile to an Updating Service Profile Template

Modifying an Updating Service Profile Template and the Bound Service Profile

LAB 9. UCS Manager: Expanding Address and ID Pools

UUID Pool

Expand MAC Address Pool Expand WWNN Address Pools Expand the WWPN Pool

LAB 10. Managing Boot Devices and Paths

MDS NX-OS CLI: WWPN Verification UCS Manager: New Boot Policy (VNX) Unisphere for VNX: Connecting to VNX Storage - New Initiators

Unisphere for VNX: Connecting to VNX Storage – Storage Groups

Unisphere for VNX: Connecting to VNX Storage - Creating a boot LUN

LAB 11. UCS Manager: Create a Service Profile from Scratch

Creating a New Service Profile Associate a new service profile Installing ESX-i

Restore Original Service Profile LAB 12. Deploying Virtual Machines

Creating a New Datastore Provision an Additional LUN Create a New Data Store Creating a Virtual Machine

Creating a New VM in vSphere Web Client

Accessing the VM Capacity Management

VMware Capacity Monitoring

LAB 13. Creating NFS Stores

Configuring advanced settings for VMware vSphere ESXi 5.1

Configure File System and NFS Exports ESXi NFS Configuration

VM Access to the NFS File System Finding the NFS VLAN

Adding a New Interface To VNX Create new network in vSphere Create new NIC the Application VM Create The NFS Mount on the VM

LAB 14. Managing CIFS

Creating a CIFS Server Create a Volume

Creating a File System Pool Creating a CIFS file system

Mount a File System on the CIFS Server in VNX

Test the CIFS File System on your Management Workstation

Mount CIFS on VM

LAB 15. Protecting Vblock System Metadata VCE Vision Configuration Backup

VCE Vision Configuration Restoration VCE Vision Interface to Vblock System Configuration

Backup of UCS Manager Backup of the Nexus 5k Switch Backup of the MDS Switch

LAB 16. Protecting Vblock System Production Data

Protection in Unisphere

LAB 17. Securing the Vblock System Security

vCenter Password Retention

VCE Vision Appliance and Central Authorization

Adjusting Syslog maximum log file size Securing a New VLANs with Roles Creating a QoS Policy on the Nexus 1000v

LAB 18. Trusted Multi-tenant in a Vblock System

Trusted Multi-Tenancy Create Admin Account Create Sub-Organization Segregated Storage

Create a Segregated Storage Pool on EMC VNX

Segregate UCS Compute Environment Segregate vSphere Access

Monitoring Storage Monitor a Storage Pool Monitoring a RAID group Capacity Expansion Expand A Storage Pool

Expand an Existing LUN Expand a Data Store

Template Creation and Usage

Creating a VM Template in vSphere Web Client

Creating a VM from a Template Accessing the VM

VLAN Creation

Add a VLAN on UCS

Adding a VLAN to the Cisco Nexus 5000 Adding a VLAN to the Cisco Nexus 1000V

Adding the VLAN to VMware Virtual Switch

Changing the VLAN for the Application VMs