









VMworld 2014 Hands-on Labs Guide

Listed below are the Hands-on Labs that will be available at VMworld 2014 in Barcelona. The labs are divided into four focus areas, Software Defined Datacenter Labs, Hybrid Cloud Labs, Mobility Labs, and Partner Solution Labs. Under each lab, you will find several modules available for you to test drive a VMware product.

Key to deciphering the Lab Module table:

#	This is the Module number
Title	The title of the Module
Time	This is the estimated time in minutes to complete this Module
 Lightning Lab	Lab Modules that are 15 or 30 minutes in duration
 Full Length	Lab Modules that are 45 or 60 minutes in duration
Level	
 Beginning	These Modules are designed to introduce you to a product or solution
 Advanced	These Modules cover more Advanced topics
Type	
 Feature Modules	These are focused on the features of a single product.
 Use Case Modules	These are narrative Modules that demonstrate the interaction between multiple products in a hypothetical scenario.

Modules with an estimated time of 15 or 30 minutes are classified as Lightning Labs. These Modules offer a great way to quickly become familiar with a specific topic or technology.

























For more information, please visit our site at <http://hol.vmware.com>

Software Defined Datacenter Labs

HOL-SDC-1401 - Cloud Management with vRealize Operations

VMware vCenter Operations Management suite delivers intelligent operations management across physical, virtual, and cloud infrastructures — from vSphere and Hyper-V to Amazon Web Services. It correlates data from applications to storage in a unified management tool that is easy-to-use and can provide control over performance, capacity, and configuration, with predictive analytics driving proactive action, and policy-based automation.



















Lab Modules

#	Title	Time	Level	Type
1	Introduction to vRealize Operations	 15		
2	Intro and Overview of the new vRealize Operations UI	 30		
3	Virtual Infrastructure Performance Monitoring and Guided Remediation	 30		
4	Capacity Optimization and Scenario Modeling for the Virtual Infrastructure	 30		
5	Custom Dashboards, Views and Reports	 30		
6	Virtual Infrastructure Performance Correlation with OS	 30		
7	vSphere Configuration and Compliance Management	 30		
8	Application Discovery and Dependency Mapping	 30		

HOL-SDC-1402 - vSphere Distributed Switch from A to Z

This is an ideal lab to learn the basics and advanced virtual network configuration options on vSphere using the vSphere Distributed Switch (VDS). We will cover configuration through migration from a vSphere Standard Switch (VSS) to VDS, Quality of Service, Monitoring with Layer 3 SPAN, High Availability with LACP and some troubleshooting steps. The lab will also help build a basic knowledge of VDS, which is a foundation to NSX deployments.




Lab Modules

#	Title	Time	Level	Type
1	Migrating from a vSphere Standard Switch to the vSphere Distributed Switch	 15		
2	Implementing Quality of Service (QoS) Tagging & Traffic Filtering on the VDS	 15		
3	Monitoring the vSphere Distributed Switch with Encapsulated Remote Mirroring	 15		
4	Manage network traffic with NIOC (Network I/O Control)	 15		
5	Implementing LACP on the vSphere Distributed Switch	 15		
6	Network Troubleshooting Using The ESXCLI	 15		

HOL-SDC-1403 - VMware NSX Introduction

VMware NSX is the platform for Network Virtualization. You will gain hands-on experience with Logical Switching, Distributed Logical Routing, Dynamic Routing, Distributed Firewall and Logical Network Services. This lab introduces the core capabilities of VMware NSX in vSphere environments used to enable Network and Security virtualization.



















Lab Modules

#	Title	Time	Level	Type
1	Component Overview & Terminology	 15		
2	Logical Switching	 30		
3	Logical Routing	 30		
4	Distributed Firewall	 60		
5	Edge Services Gateway	 30		

HOL-SDC-1404 - vSphere Performance Optimization

This Lab covers vSphere performance best practices and features. You will work with a broad array of solutions, including VMware Labs "Flings," to gauge and diagnose performance in a VMware Environment, including vFRC, vNUMA and Latency Sensitivity.













Lab Modules

#	Title	Time	Level	Type
1	Basic vSphere Performance Concepts and Troubleshooting	 60		
2	Performance Feature: vSphere Flash Read Cache	 45		
3	Performance Feature: Latency Sensitivity Setting	 45		
4	Performance Feature: vNUMA	 30		
5	Performance Feature: Power Policy Setting	 15		
6	Using esxtop	 60		

HOL-SDC-1405 - IT Outcomes – High Availability and Resilient Infrastructure

VMware Business Continuity and Disaster Recovery (BC/DR) solutions drive automation, efficiency, data protection, and validation of an organization's enterprise-level BC/DR strategy. Learn how to reduce downtime and increase availability for your applications and services with Site Recovery Manager (SRM) and VMware Data Protection Advanced (VDP-A).










Lab Modules

#	Title	Time	Level	Type
1	Use Site Recovery Manager to Test Disaster Recovery and Execute Datacenter Migrations	 60		
2	Site Recovery Manager and vSphere Replication Features	 30		
3	Data Backup and Recovery with VMware vSphere Data Protection	 30		
4	Automating Site Recovery Manager Tasks Using PowerCLI	 30		

HOL-SDC-1406 - vCloud Suite 101

This introductory lab demonstrates the first steps in the journey to a Software Defined Enterprise by implementing all components of vCloud Suite Standard, which focuses on the core features and functions of vSphere, vCenter, vCenter Operations Manager and vCloud Automation Center. This is an excellent place to begin your Software Defined Data Center (SDDC) experience by moving from the world of traditional templates to blueprints that enable Automated Infrastructure Delivery.
















Lab Modules

#	Title	Time	Level	Type
1	Review Infrastructure in the vSphere Web Client	 15		
2	Using vCenter Operations Manager to check Cluster Capacity for New Workloads	 15		
3	Enabling Automated Provisioning by configuring vCloud Automation Center	 60		

HOL-SDC-1407 - VMware Automation Solutions

VMware vCloud Automation Solutions accelerate the journey to a lights-out, fully automated, and efficient Software-Defined Datacenter. Explore vCenter Orchestrator, PowerCLI, VSAN, and Auto Deploy working together to solve real-world problems.



















Lab Modules

#	Title	Time	Level	Type
1	From Beginner to the Latest Features with PowerCLI	 60		
2	VSAN Automation with PowerCLI	 45		
3	Automating Tasks through vCO Workflows	 45		
4	Customizing vCO Workflows for Advanced Automation	 45		
5	Automating vSphere Hosts Deployments with vSphere Auto Deploy	 60		

HOL-SDC-1408 - VMware Virtual SAN 101

Experience VMware Virtual SAN for the first time. Learn how to deploy, configure, and manage VMware's latest hypervisor-converged storage solution. Includes new and updated modules for the 2014 catalog.



















Lab Modules

#	Title	Time	Level	Type
1	Virtual SAN Setup and Enable	 30		
2	Virtual SAN with vMotion, Storage vMotion and HA Interoperability	 60		
3	Virtual SAN Storage Level Agility	 60		
4	Useful CLI Commands	 30		
5	Virtual SAN Monitoring	 30		
6	Virtual SAN Troubleshooting	 60		

HOL-SDC-1409 - vSphere Big Data Extensions

vSphere Big Data Extensions (BDE) makes Hadoop virtualization-aware, improves performance in virtual environments and enables deployment of highly available Hadoop clusters in minutes. You can choose from introductory to advanced modules in this exciting lab topic.










Lab Modules

#	Title	Time	Level	Type
1	Hadoop POC In Under an Hour	 45		
2	Fast And Easy Deployment Of Hadoop Clusters	 15		
3	Compute Only and No Distro Clusters on Shared HDFS	 15		
4	Highly Available Hadoop	 15		
5	Fast And Easy Deployment of HBase Cluster	 15		
6	Elastic Scaling of Hadoop Clusters	 45		

HOL-SDC-1410 - Virtualization 101

This introductory lab demonstrates the core features and functions of vSphere and vCenter. This is an excellent place to begin your experience with VMware vSphere.









Lab Modules

#	Title	Time	Level	Type
1	Introduction to Management with vCenter Server	 60		
2	Introduction to vSOM Networking And Security	 60		
3	Introduction to vSOM Storage	 60		

HOL-SDC-1411 - IT Cost Transparency with ITBM

Gain transparency into and proactively manage the costs, quality, and performance of IT services, vendors, and contracts through insightful dashboards, analytics, and capabilities that helps align IT to the demands of the business.
















Lab Modules

#	Title	Time	Level	Type
1	ITBM Standard	 45		
2	ITBM Advanced	 45		
3	ITBM Enterprise	 30		

HOL-SDC-1412 - IT Outcomes – Data Center Virtualization and Standardization

This lab will focus on taking the traditional benefits of vSphere and extending it further into your Software-Defined Data Center (SDDC) through Software-Defined Storage using Virtual SAN and network virtualization using NSX for vSphere. This will enable organizations to see how to deliver the same efficiency and agility for the datacenter as it does right now for the VM.
















Lab Modules

#	Title	Time	Level	Type
1	Lab Overview	 15	101	
2	Overview of vCenter and VSAN Configuration	 15	101	
3	Overview of NSX Configuration	 15	101	
4	vCenter Operations Capacity Reporting	 15		
5	Increase Compute Cluster Capacity	 15		
6	Expand 3-Tier Application Capacity	 15		

HOL-SDC-1413 - IT Outcomes – App and Infrastructure Delivery Automation

Reduce time to deliver applications and infrastructure with automated provisioning and policy-based governance throughout the service delivery lifecycle using vCloud Automation Center and Application Director. Integration points with VMware's NSX for vSphere will be shown, as well as external service integration (such as vCloud Hybrid Services, IP, and service management), and extensibility through additional automation.







Lab Modules

#	Title	Time	Level	Type
1	Extending vCloud Automation Center	 30		
2	Integrating with vCAC and NSX	 30		
3	Third Party Integration: Service Desk	 45		
4	vCloud Application Director Integration	 30		
5	Managing vCAC with Log Insight	 30		

HOL-SDC-1415 - IT Outcomes – Security Controls Native to Infrastructure

Learn how several VMware technologies work together to implement policy-based network control, configuration and compliance management, and intelligent operations management. You will use NSX for vSphere to isolate, protect, and apply security policies across virtual network workloads. Use vCenter Configuration Manager to continuously identify, assess, and remediate out-of-compliance virtual machines. Finally, you will use vCenter Operations Manager for operational insight into the health, risk, and efficiency of the virtual infrastructure.













Lab Modules

#	Title	Time	Level	Type
1	Policy-Based Compliance	 60		
2	Policy-Based Network Security	 30		

HOL-SDC-1416 - IT Outcomes – Streamlined and Automated Data Center Operations

Use the VMware vCloud Suite to manage Business Critical Applications (BCA). See how applications such as Microsoft SQL and Exchange can be managed using vCenter Operations Manager (vCOPs) with data from vCenter Infrastructure Navigator (VIN), vCenter Hyperic, and vCloud Hybrid Service (vCHS). See demonstrations of monitoring, capacity and performance management, application grouping, super metrics and more.













Lab Modules

#	Title	Time	Level	Type
1	vCenter Operations Policies and Groups for Applications	 30		
2	Hybrid Cloud Monitoring with vCenter Operations	 15		
3	Managing Business Critical Applications with vCenter Operations	 30		
4	Super Metrics – Making it your own!	 30		

HOL-SDC-1420 - OpenStack with VMware vSphere and NSX

Are you interested in learning more about OpenStack? OpenStack is a cloud API framework that enables self-service cloud provisioning and automation. You will take a basic tour of OpenStack and use it with vSphere and NSX to provision compute, storage and networking resources.

























Lab Modules

#	Title	Time	Level	Type
1	OpenStack Compute and Storage with vSphere	 60		
2	OpenStack Networking with NSX	 60		
3	VMware Integrated OpenStack (Beta) - Installation and Deployment	 15		
4	VMware Integrated OpenStack - Python APIs	 60		

HOL-SDC-1421 - Brokering IT Services and Applications with vCloud Automation Center

This lab will demonstrate the ability to use vCloud Automation Center 6 to rapidly automate the deployment and management of a variety of IT services and applications. It covers key features of vCloud Automation Center 6, including use cases from the perspectives of the consumers, business managers and administrators. You will explore the integrations between vCloud Automation Center and vCloud Application Director, vCenter Orchestrator and ITBM Standard, and develop new service offerings through the Advanced Service Designer.










Lab Modules

#	Title	Time	Level	Type
1	Consuming IT Services via Self-Service Catalog with Policy Based Governance	 45		
2	Creating Policy Based Governance for Self-Service	 30		
3	Automating Infrastructure Provisioning with vCloud Automation Center	 30		
4	Automating Any Service with vCloud Automation Center and vCenter Orchestrator	 45		
5	Deploying Application Environments with vCloud Automation Center Enterprise	 45		
6	Tenant Configuration and Management with vCloud Automation Center	 30		
7	Cost Transparency and Public Cloud Comparison with ITBM Standard	 45		
8	What's New in vCAC 6.1, App Services 6.1 and ITBM Standard 1.1	 45		

HOL-SDC-1422 - VMware Development Tools and SDKs

This introductory lab will get you up and running building cloud infrastructure solutions with VMware development tools and SDKs. These are developer focused modules and some familiarity with programming in Java or Python is expected. But don't worry, no coding is required. Complete sample code has been provided.
















Lab Modules

#	Title	Time	Level	Type
1	Developer Center, Workbench IS, and the vSphere Management SDK	 30		
2	pyvmomi - The Python SDK for VMware vSphere API	 30		
3	Workbench IS Tools	 15		

HOL-SDC-1423 - vCloud Suite Networking

This is an excellent lab to begin learning about vCloud Networking. You will use vCloud Networking and Security to deploy a DMZ network segment, a multi-tier application and a virtual distributed firewall for micro-segmentation.













Lab Modules

#	Title	Time	Level	Type
1	VCNS Component Overview	 15		
2	Prepare Clusters for VXLAN Logical Network Deployment	 30		
3	Configuring Edge Services for a 3-Tier Application	 45		
4	Configuring Additional Edge Services	 15		
5	App Firewall	 30		

HOL-SDC-1424 - VMware NSX in the SDDC

This NSX lab covers integration of NSX with components of the vCloud Suite to deliver on the Software Defined Datacenter. Integration of NSX with Management components like vCloud Automation Center (vCAC), vCenter Operations Manager (vC Ops) and Log Insight is covered in this lab. In addition, the lab also demonstrates how NSX is a platform built for automation by using vCO and the NSX API.
















Lab Modules

#	Title	Time	Level	Type
1	Create Network Profiles	 45	101	
2	Create a Multi-Machine Blueprint	 60	101	
3	Configure a Catalog Item and Deploy	 45	101	
4	vCenter Orchestrator and the NSX API through vCloud Automation Center Advanced Designer	 45	101	
5	Using vCenter Operations with the NSX Management Pack	 60	101	
6	Using vCenter Log Insight with NSX	 45	101	

HOL-SDC-1425 - VMware NSX Advanced

This lab covers advanced NSX topics and builds on the basics learned in the "VMware NSX Introduction (SPL-SDC-1403)" lab. Attendees will gain hands-on experience on advanced NSX features like DHCP Relay, L2VPN, ECMP and Service Composer. This lab will also cover Third party integration with NSX by highlighting Networking Management, Load Balancing and End-Point Security Partners to demonstrate how NSX provides a comprehensive platform for Network and Security Virtualization.










Lab Modules

#	Title	Time	Level	Type
1	DHCP Relay	 30		
2	Scale Out L3	 45		
3	L2VPN	 45		
4	Trend Micro Integration	 45		
5	Riverbed Integration	 15		

HOL-SDC-1426 - Log Insight in the Real World!

In this lab you will learn how to use Log Insight to troubleshoot common issues. You will also learn how Log Insight can detect issues in your virtual infrastructure and server environments. This lab will also cover all of the Log Insight basics like configuration, log collection setup, how to use Content Packs, and integration with vCenter Operations Manager.
















Lab Modules

#	Title	Time	Level	Type
1	Getting started with Log Insight	 30		
2	Troubleshooting and Problem Detection in vSphere	 30		
3	Troubleshooting and Problem Detection in Windows	 15		

HOL-SDC-1427 - VMware Software Defined Storage

Software Defined Storage is here today. See how VMware can deliver a complete set of storage capabilities, on-demand and dynamically created, using exciting new solutions such as Storage Policy Based Management (SPBM), Virtual SAN, and Virtual Volumes. Learn how to manage policies in this new model and offer storage services to users on a self-service basis.





Lab Modules

#	Title	Time	Level	Type
1	Create Storage Policies using vCenter Storage Policy Based Management	 15		
2	Integrate vCenter Storage Policies into VCAC Service Catalog	 15		
3	Provision New VM from Service Catalog using Software Defined Storage Policies	 30		
4	Assign New Storage Policy To Existing VM	 30		
5	Advanced Software Defined Storage With SPBM and PowerCLI	 30		

HOL-SDC-1428 - VMware EVO:RAIL Introduction

VMware EVO:RAIL™ combines compute, networking, and storage resources into a hyper-converged infrastructure appliance to create a simple, easy to deploy, all-in-one solution offered by VMware qualified partners.





Lab Modules

#	Title	Time	Level	Type
1	Exploring EVO:RAIL Configuration	 30	101	
2	Exploring EVO:RAIL Management	 30	101	

HOL-SDC-1429 - Virtual Volumes Tech Preview

This Hands-on Lab gives a closer look at Virtual Volumes in order to become familiar with the concepts and some of the data path workflows. Virtual Volumes are VMware's new storage paradigm to facilitate per VM/VMDK data services on the storage array. This allows the storage to move away from a LUN centric storage representation to a granular form of representation. In this lab, you will learn how to setup and enable Virtual Volumes and understand how to enable storage policies utilizing Virtual Volumes.

Lab Modules









#	Title	Time	Level	Type
1	Virtual Volumes (VVOLs) Setup and Enablement	 30	101	
2	Storage Based Policy Management	 30	101	

Hybrid Cloud Labs

HOL-HBD-1481 - vCloud Air - Jump Start for vSphere Admins

Learn how to use VMware vCloud® Air™. Deploy a virtual machine, migrate from your existing vSphere environment, and explore basic networking and security principles.







Module Listing

#	Title	Time	Level	Type
1	VMware vCloud® Air™ : Architecture and Consumption Principles	 15	101	
2	Identifying and Deploying Workloads in VMware vCloud® Air™	 30	101	
3	Administer VMware vCloud® Air™ resources from vSphere Client	 30	101	
4	Networking and Security Basics	 30	101	

HOL-HBD-1482 - vCloud Air - Networking & Security

VMware vCloud® Air™ facilitates advanced networking features. You will experience vCloud Air through the eyes of a systems administrator facing such issues as IP address mobility and security.













Lab Modules

#	Title	Time	Level	Type
1	Introduction to VMware vCloud Air Networking and Security	 15	101	
2	IP Address Portability Between Customer and VMware vCloud® Air™ Data Centers (Data Center Extension)	 45	101	
3	Public and Private Cloud Multi-Tiered Application Networking	 45	101	

HOL-HBD-1483 - vCloud Air - Manage Your Cloud

VMware vCloud® Air™ is VMware's Infrastructure as a Service offering. You will manage users and role-based access, deploy from the Service Catalog, and use a host of VMware solutions with both vSphere and VMware vCloud® Air™.

Lab Modules




















#	Title	Time	Level	Type
1	Automate IT Service delivery on VMware vCloud® Air™ with vCloud Automation Center	 60		
2	Monitor resources on VMware vCloud® Air™ with vCenter Operations Manager	 45		
3	Migrate workloads to VMware vCloud® Air™ with vCloud Connector	 45		
4	Automate resource management in VMware vCloud® Air™ with PowerCLI	 45		

Mobility Labs

HOL-MBL-1451 - Horizon 6 with View from A to Z

Complete a guided tour of Horizon 6 with View features with a focus on new technologies such as Cloud Pod Architecture, Hosted Applications, and vSAN, learn how to Optimize Horizon View for your environment, and learn steps to Troubleshoot a View environment while avoiding common issues.






















Lab Modules

#	Title	Time	Level	Type
1	Guided Tour of Horizon 6 with View	 60	101	
2	Hosted Applications and Desktops (RDSH)	 60		
3	Horizon 6 support for Virtual SAN (vSAN)	 30	101	
4	Cloud Pod Architecture	 30		
5	Optimize Horizon 6 with View	 45		
6	Troubleshooting Horizon 6 with View	 30		
7	SSL Certificates in Horizon 6 with View	 30		

HOL-MBL-1452 - Horizon View - Use Cases

You will experience the Horizon View use cases of Business Process Desktop, Branch Office Desktop and Mobile Secure Workplace (with focus on Fed Secure Desktop and Always-On Point of Care). Additional modules include Mirage Controlled View Static Desktops and A Guided Tour of vCenter Operations for View.




























Lab Modules

#	Title	Time	Level	Type
1	Build and Operate the Mobile Secure Workplace	 60		
2	Build and Operate the Call Center Desktop	 60		
3	Build and Operate the Branch Office Desktop	 60		
4	Take a Guided Tour of vCOPS for View	 60		
5	Understanding use cases for Application Remoting	 15		
6	Understanding use cases for Cloud Pod Architecture	 15		
7	Mirage-Controlled View Static Desktops	 30		

HOL-MBL-1453 - VMware Workspace Portal - Explore and Deploy

VMware Workspace Portal securely delivers your applications any device. Gain hands-on experience in the Application Catalog, SAML integration and Desktop brokering.



















Lab Modules

#	Title	Time	Level	Type
1	Introduction to VMware Workspace Portal	 15		
2	Published Horizon 6 Applications in VMware Workspace Portal	 30		
3	A Day in the Life of VMware Workspace Portal	 45		
4	VMware Workspace Portal and Web/SaaS application	 45		
5	VMware Workspace Portal and ThinApp Integration	 45		
6	Install and configure VMware Workspace Portal using external database	 60		
7	VMware Workspace Portal and SSL Certificates and Kerberos SSO	 60		
8	How to deploy Workspace in a High Availability cluster	 60		
9	Update from Workspace 1.8.2 to Workspace 2.1	 60		

HOL-MBL-1454 - Applied ThinApp with the Horizon Suite

VMware ThinApp accelerates and simplifies application deployment and migration. You will learn what's new in ThinApp, build ThinApp packages, and integrate ThinApp with Horizon Mirage, Horizon Workspace and Horizon View.
















Lab Modules

#	Title	Time	Level	Type
1	ThinApp Overview	 60		
2	ThinApp and Horizon 6 with View	 30		
3	ThinApp and Mirage	 30		
4	ThinApp and Horizon Workspace Portal	 45		
5	ThinApp and BYOD	 30		
6	ThinApp 5.1 New Features	 30		

HOL-MBL-1455 - Managing Desktops with VMware Mirage

VMware Mirage enables efficient and unified image management of physical, virtual and BYO desktops using layering technology. You will capture layers and use them to address three common use cases that trouble desktop administrators today.










Lab Modules

#	Title	Time	Level	Type
1	Capture Base Layer	 30		
2	Capture Application Layer	 30		
3	Use Cases	 60		
4	Mirage Edge Gateway	 30		
5	Tour Mirage Web Admin	 30		

HOL-MBL-1456 - Horizon DaaS - Explore and Deploy

This lab will introduce you to desktop as a service (DaaS). Through hands-on exercises, you will learn how DaaS goes beyond typical virtual desktop infrastructure (VDI), and work closely with VMware Horizon DaaS, the market leading offering.










Lab Modules

#	Title	Time	Level	Type
1	DaaS Overview	 15		
2	Desktop Provisioning	 60		
3	Desktop Management	 30		

HOL-MBL-1457 - AirWatch - Explore and Deploy

How do you plan to simplify enterprise mobility in your organization? You will use the AirWatch Enterprise Mobility Management platform with your own phone or tablet, or borrow a device from the labs team.

Lab Modules










#	Title	Time	Level	Type
1	Basic Enrollment and Basic MDM	 45		
2	Advanced MDM Using the AirWatch Cloud Connector	 45		
3	Single Device/Multiple Users (Check In/Check Out)	 45		

Partner Solution Labs

HOL-PRT-1461 - Policy Based Storage Management with EMC ViPR and VMware Integrations

You will explore how EMC ViPR with VMware integrations can easily map your classes-of-services to vCenter storage profiles and provision block, file, and object storage. Monitor and report capacity usage across your enterprise in a single view. Includes the ViPR plug-ins for vCAC, vCOPS, vCenter and VCO.










Lab Modules

#	Title	Time	Level	Type
1	ViPR Overview	 15		
2	ViPR integration with VMWare	 30		
3	Optional - ViPR Monitoring and Reporting	 15		

HOL-PRT-1462 - Virtualized Data Center Security: VMware NSX and Palo Alto Networks Next Generation Virtual Firewall

In this lab, learn how to configure Palo Alto Networks virtualized next-generation firewall with VMware NSX to secure VM to VM communications from today's advanced threats.










Lab Modules

#	Title	Time	Level	Type
1	Palo Alto Networks VM-Series and VMware NSX dynamic security policy configuration	 30		
2	Deploying Palo Alto Networks VM-Series with VMware NSX to protect a multi-tier application	 45		
3	Using Distributed FireWall (DFW) to Protect Intra-tier Traffic	 30		

HOL-PRT-1464 - Secure your SDDC built on VMware NSX & vSphere with Symantec Data Center Security: Server

Learn how Symantec Data Center Security: Server integrates with VMware NSX Service Composer and leverages Security Groups to orchestrate and provision security policies on your virtual workloads. Data Center Security:Server provides agent-less malware protection and Guest Network Threat Protection with automated workflows.










Lab Modules

#	Title	Time	Level	Type
1	Configuring policies, Test Virtual Machine and NSX Security Group	 15		
2	Demonstrate Symantec's Virtual Machine Threat Protection and Quarantine Features	 45		
3	Demonstrate Symantec's Virtual Machine Network Security Introspection	 45		

HOL-PRT-1465 - Atlantis USX Data Services and VSAN: Software-defined Storage Infrastructure for Tier-1 Apps

Get hands-on experience with Atlantis USX: Deliver dramatically higher-performance for your production workloads, including tier 1 apps and VDI at a fraction of the capacity and cost of traditional storage. Deploy Atlantis USX with VSAN to build hyper-converged infrastructure.













Lab Modules

#	Title	Time	Level	Type
1	Deploying together with VMware VSAN to deliver optimized local storage	 45		
2	Build In Memory Storage	 45		
3	Using the USX API Browser to drive automation and orchestration to scale a software-based storage infrastructure	 30		

HOL-PRT-1466 - Bridge the gap between Virtualization and IT Service Management

Integrate BMC Remedy ITSM Change Management approval and Atrium CMDB CI creation into the vCAC provisioning processes. Create, read and update a BMC Remedy Change ticket, BMC Remedy Incident (Help Desk) ticket, BMC Remedy Task and BMC Atrium CMDB Configuration Item (CI) using vCenter Orchestrator.







Lab Modules

#	Title	Time	Level	Type
1	Interacting with BMC Remedy Change Management	 60		
2	Interacting with BMC Remedy Incident Management	 45		
3	Interacting with BMC Atrium CMDB	 60		
4	Closed Loop Provisioning with vCAC and BMC Remedy Suite	 60		

HOL-PRT-1467 - Virtual Volume with Dell EqualLogic

In this lab, you will learn more about Virtual Volumes and how they integrate with Dell EqualLogic Storage. You will get to see how day to day tasks, like snapshots and cloning are accelerated by the Virtual Volume integration with Dell EqualLogic and how the work flows involved remain similar.













Lab Modules

#	Title	Time	Level	Type
1	Working with Dell EqualLogic and VVOLs	 60		
2	Dell Virtual Storage Manager, more then just a VASA Provider	 30		

HOL-PRT-1468 - Automating your cloud with vCloud Automation Center 6.0 and the Infoblox vCO IPAM Plug-in

One key challenge facing Cloud Administrators is the amount of time needed to obtain an IP address for a virtual machine. Automate your IP Address assignment and DNS registration so that this critical process does not slow the deployment of your Cloud.







Lab Modules

#	Title	Time	Level	Type
1	Configuring vCloud Automation Center 6.0 for Integration with Infoblox Trinziic DDI	 30		
2	Verifying Proper Configuration of the Infoblox IPAM Plug-in and the Trinziic DDI VirtualAppliance	 15		
3	Using vCAC Self Service Web Portal to Provision/Deprovision a VM and using the Infoblox IPAM-DNS services	 15		
4	Customizing vCAC 6.0 to Enable Network Selection Before Provisioning a VM	 15		

HOL-PRT-1469 - Puppet Labs – Automating Your Virtual Datacenter with Puppet Enterprise

Puppet Enterprise enables IT teams to automate VM lifecycle management and scale services quickly, reliably, and efficiently. In these modules, you will go hands-on with Puppet Enterprise and deploy a multi-tier managed application with vCAC 6 and Puppet Enterprise.










Lab Modules

#	Title	Time	Level	Type
1	Learning More About Puppet Enterprise	 30		
2	vCAC Puppet Enterprise Integration	 45		

HOL-PRT-1470 - Storage Management and troubleshooting using Insight Control and VCOPS and HP StoreFront Analytics for vCenter Operations Manager

Test drive the new unified VMware Storage Management with this lab. Experience single-click data store deployment, visualization of complex configurations all from within vCenter. As a bonus, learn how to effectively troubleshoot performance situations using HP StoreFront Analytics for vCenter Operations Manager.







Lab Modules

#	Title	Time	Level	Type
1	HP OneView - Deploy VSA	 30		
2	Troubleshoot a VM & Storage performance problem	 30		
3	Use Super Metrics to see what's important to you!	 30		

HOL-PRT-1471 - NetApp VSC and VASA for Clustered Data ONTAP – Policy-Based Mgmt & VVOLS Tech Preview

This lab will focus on highlighting the latest innovations for storage provisioning and management, and will bring our VASA Provider for clustered Data ONTAP into the lab to demonstrate how pre-defined policies make provisioning and compliance even easier than before.








Lab Modules

#	Title	Time	Level	Type
1	Policy-Based Management and VASA in the VSC	 45		
2	Virtual Volumes (VVOLs) & NetApp storage	 30		

HOL-PRT-1472 - Juniper Virtual Security for the Enterprise and Service Provider Environment

So, you have decided to incorporate a cloud and/or virtualization into your business. This lab will show you how to secure and operate a software defined datacenter with Juniper's virtual security capabilities for your Enterprise or Service Provider environment.

Lab Modules

#	Title	Time	Level	Type
1	Juniper Junos Space 101	 15		
2	Managing Your Physical and Virtual Infrastructure with Juniper Junos Space	 45		
3	Juniper DDoS Secure	 45	