

VMware 2012 Hands-On Labs



What's Brewing in the Labs?

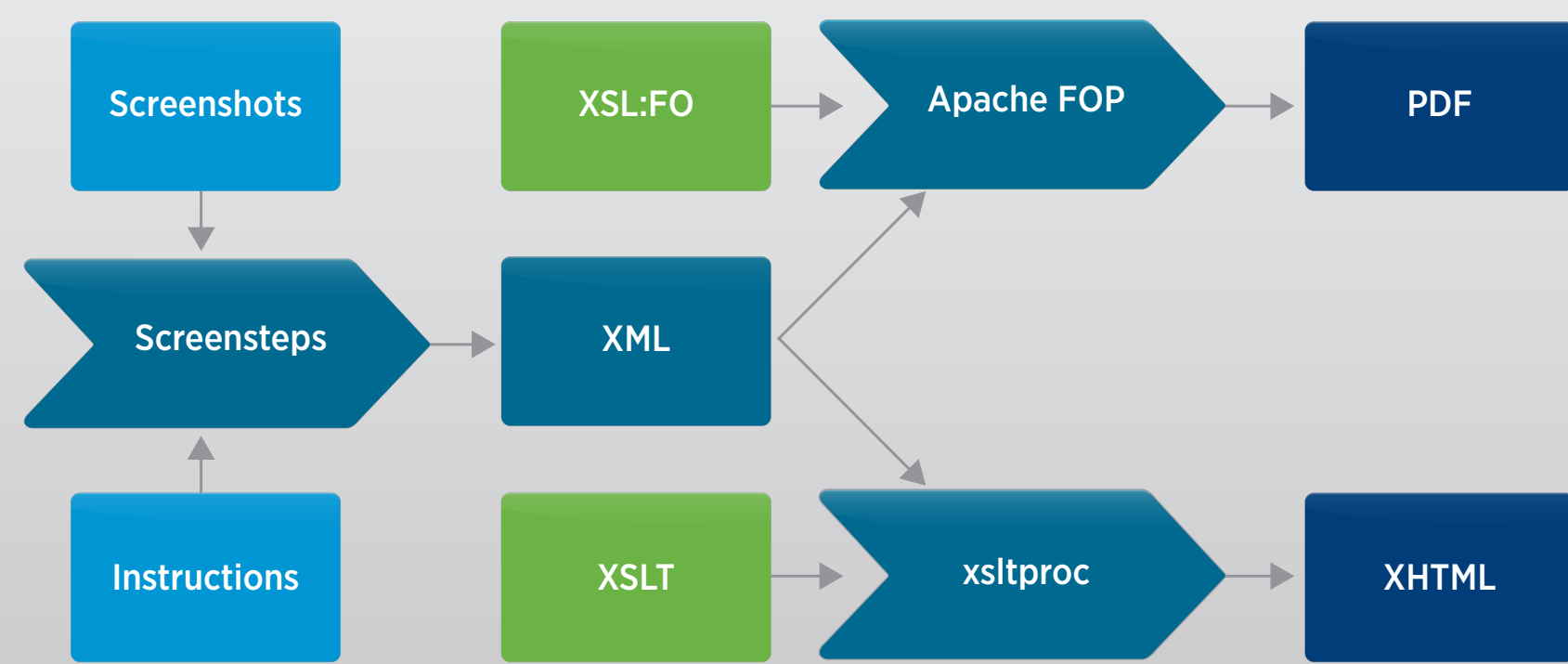
Operations

- HOL-OPS-01** **Manage Your vCloud Suite Deployment with VMware vCenter Operations Manager Enterprise**
This lab covers automated performance, capacity and configuration management with VMware vCenter Operations Manager Enterprise. Key concepts of health, risk and efficiency will be presented via hands-on activities. The lab will explore VM memory stress, datastore I/O constraint and cluster capacity risk. Product highlighted: VMware vCenter Operations Manager Enterprise.
- HOL-OPS-02** **Secure Your Cloud with VMware vCenter Configuration Manager**
Learn how VMware vCenter Configuration Manager (vCM) can be used to harden your cloud infrastructure and help monitor, assess and remediate to ensure configuration consistency and compliance. Product highlighted: VMware vCenter Configuration Manager.

- HOL-OPS-03** **Build an IT Cost Model with the VMware IT Business Management Suite**
This lab covers the process of working with an "out-of-the-box" IT Business Management (ITBM) financial cost model to drive intelligent ITBM dashboards. Key concepts will be presented via hands-on activities demonstrating ITBM financial management and interaction with actionable ITBM dashboards and reporting. Product highlighted: VMware IT Business Management suite.
- HOL-OPS-04** **DynamicOps by VMware - Rapidly Deliver Private and Hybrid Clouds Across Multi-Vendor Environments**
This lab will demonstrate the ability to use DynamicOps Cloud Automation Center to rapidly deploy private and hybrid clouds across complex multi-vendor environments. Product highlighted: DynamicOps Cloud Automation Center.

- HOL-OPS-05** **Explore VMware vCenter Operations Manager Enterprise New Features**
In this lab you will use new features of VMware vCenter Operations Manager Enterprise Edition for performance monitoring, troubleshooting and optimization of VMware vSphere infrastructure. Hands-on activities will showcase key features in daily datacenter operations. Product highlighted: VMware vCenter Operations Manager Enterprise.
- HOL-OPS-06** **Manage the Financial Aspects of Your IT Service Portfolio with the VMware IT Business Management Suite**
Learn how to simplify and automate the business and financial aspects of your entire IT service portfolio. You will utilize cost models and CIO dashboards to gain cost visibility and provide cost transparency; utilize what-if scenarios to identify ways to optimize IT service costs; and produce a "Bill of IT" to report IT service costs and consumption via showback and/or chargeback. Product highlighted: VMware IT Business Management suite.

- HOL-OPS-07** **VMware vCenter Orchestrator - "The Undiscovered Country"**
This lab is for IT professionals that are looking to automate repetitive tasks as well as learn how to integrate their cloud with third-party systems using VMware vCenter Orchestrator. Product highlighted: VMware vCenter Orchestrator.



Hands-on Labs - Content Management Engine (HOL-CME)

The 2012 VMware Hands-on Labs Content Catalog is the most exciting yet! There are 36 lab topics totaling more than 5,000 pages, 180,000 words and 2,000 minutes of lab time. An XML-based system has been created to manage this extensive content catalog and handle publishing to multiple end points. The Hands-on Labs Content Management Engine (HOL-CME) is diagrammed above so that you can see how open technologies such as XML, XHTML, XSLT and XSL-FO work together to simplify the content authoring and publishing process.

topic or move on to other topics as you see fit. It is our hope that Lightning Labs will make the entire Hands-on Labs Content Catalog more flexible and accessible to all HOL users.

For the first time, at VMworld 2012, you can bring your own device (BYOD) to the Hands-on Labs. The BYOD delivery model will demonstrate a new way to access and complete Hands-on Lab content on your own tablet or laptop. A separate area will be provided for you to connect to wireless, log in to the portal and take labs from your own device. After the conference the new Hands-on Labs Online portal will go live, enabling you to take labs from anywhere in the world. Be sure to register your interest at



Be sure to look for Lightning Labs, signified by the orange lightning bolt badge. Lightning Labs contain multiple modules that are only 15 or 30 minutes in length. If you only have a short amount of time, you can drop in, take a Lightning Lab and get a complete story in a bite-sized format. You can come back later and complete the other modules in the same lab

Partner

- HOL-PRT-01** **Automate IP Address Assignment and DNS Registration with Infoblox**
Automate IP address assignment and DNS registration with Infoblox so that this critical process does not slow the deployment of your cloud. This is an exciting lab for all cloud administrators. Products highlighted: Infoblox and vCloud Director.
- HOL-PRT-02** **Manage VMware vSphere and EMC Unified Storage Integration**
Become an expert and gain hands-on experience integrating VMware vSphere with EMC Unified Storage. You will configure the VSI plug-in and Storage Viewer component, view the underlying storage details of an EMC VNX array and provision iSCSI and NFS datastores from an EMC VNX array. Products highlighted: VMware vSphere and EMC Unified Storage.
- HOL-PRT-03** **Implement VMware Site Recovery Manager Using the HP Virtual Storage Appliance (VSA)**
This lab will demonstrate how an HP Virtual Storage Appliance (VSA) can be utilized as a supported storage device with VMware Site Recovery Manager (SRM) without having to use a physical SAN. You will set up two separate vCenter Server environments with hosts, deploy a VSA to each environment and configure them to use storage. Products highlighted: HP Virtual Storage Appliance and VMware vCenter Site Recovery Manager.

- HOL-PRT-04** **Deploy VMware vCloud Director with Cisco Nexus 1000V and VXLAN**
Cisco Nexus 1000V interoperates with VMware vCloud Director, thus extending the benefits of rich Cisco NX-OS features, feature consistency and Cisco's non-disruptive operational model to enterprise private clouds and service provider-hosted public clouds managed by VMware vCloud Director. Products highlighted: Cisco Nexus 1000v and VMware vCloud Director.
- HOL-PRT-05** **Enable Tenant Backup and Recovery in vCloud Director with NetApp Snap Creator**
In this lab, you will assume the role of a consumer of a service provider's hosted environment where your mission-critical applications are running. Products highlighted: vCloud Director and NetApp Snap Creator.
- HOL-PRT-06** **Security and Compliance in Virtualized Environments with Trend Micro**
Learn how Trend Micro solutions help secure virtual machines in a datacenter that is undergoing changes such as consolidation, new-service delivery models or cloud computing. This hands-on scenario involves examining server and cloud-protection software from Trend Micro. Products highlighted: Trend Micro integration with vShield Endpoint and VMware security APIs.

Infrastructure

- HOL-INF-01** **Essential IT Management with VMware vCenter Protect**
Gain hands-on experience with VMware vCenter Protect, VMware's unified IT management platform for Microsoft-based machines. You will complete essential IT management functions in a modern infrastructure. Product highlighted: VMware vCenter Protect.
- HOL-INF-02** **Explore vSphere 5.1 Distributed Switch (vDS) New Features**
This lab explores new features of the vSphere Distributed Switch (vDS) in vSphere 5.1. You will use the Health Check facility, which reports on mis-configurations between the vDS and the underlying physical network. Product highlighted: vSphere 5.1 Distributed Switch (vDS).

- HOL-INF-03** **Automate Your vSphere 5.1 Deployment with Auto Deploy**
Learn how to use VMware Auto Deploy to scale and manage ESXi deployments or upgrades. With these hands-on exercises, you will learn how Auto Deploy can be used by your organization to manage vSphere upgrades in an automated fashion and improve internal standards and compliance.
- HOL-INF-04** **Deliver Optimal Performance with VMware vSphere 5.1**
This lab will step you through performance monitoring, troubleshooting and optimization options in VMware vSphere 5.1. You will explore how to identify and manage storage bottlenecks, CPU contention, memory overcommitment and other common performance issues using the vSphere Web Client and vCenter Operations Manager. Product highlighted: VMware vSphere 5.1.

- HOL-INF-05** **Implement Disaster Recovery for the Cloud with VMware Site Recovery Manager (SRM)**
In this lab you will leverage various VMware technologies to implement disaster recovery (DR) protection for a vCloud Director-managed infrastructure. You will implement an automated DR plan and then initiate a live failover of a private cloud infrastructure to a recovery site. Upon completion of the failover, you will verify the recovery of both the vApp workloads and cloud-management services.
- HOL-INF-06** **Deploy and Operate Your Cloud with the VMware vCloud Suite**
Learn how to build and use the virtual datacenter with the vCloud suite as introduced by Steve Herrod. First, you will configure and provision the necessary resources and set up an Organization within vCloud Director. Next, you will gain hands-on experience consuming resources from a provided infrastructure and use some of the new features of vCloud Director 5.1, including Snapshots and VXLAN.

- HOL-INF-07** **Secure the VMware vCloud Suite with vCloud Networking and Security (vCNS)**
Learn the fundamentals of software-defined networking using vCloud Networking and Security (vCNS). You will engage in a hands-on scenario to secure a network segment by deploying a virtual distributed firewall for microsegmentation. This lab is a must if you would like to learn the networking principles of the vCloud suite. Product highlighted: VMware vCloud suite - vCloud Networking and Security (vCNS).
- HOL-INF-08** **Drive PCI Compliance with VMware vCenter Configuration Manager (vCM) and vShield App**
Learn how to achieve PCI compliance in a virtual cloud environment. This lab will demonstrate VMware vCenter Configuration Manager and VMware vShield App working together to achieve network segmentation. Products highlighted: VMware vCenter Configuration Manager (vCM) and vShield App.

- HOL-INF-09** **Deliver Your IT Services in the Cloud**
Learn how VMware products from varying solution suites can integrate to deliver IT services quickly and efficiently. Discover the "Mega vPOD." Products highlighted: vCenter Orchestrator, vFabric Application Director, vCloud Director and vSphere.
- HOL-INF-10** **Script and Develop Your Cloud Solution with PowerCLI and the vSphere Web Client SDK**
This is a two-part lab that explores using PowerCLI and vSphere Web Client SDK. Products highlighted: vSphere PowerCLI and vSphere Web Client SDK.

- HOL-APP-01** **Manage Your vCloud Suite Applications with VMware vFabric Application Director**
See how the VMware vCloud suite can simplify your application management workflows. In this lab you will create an application blueprint for Nanotrader, a three-tier Web application based on the vFabric suite of products. Next, you will deploy the blueprint to the cloud with VMware vFabric Application Director. Finally, you will scale out to Server app servers and load balance them in vFabric Web Server.

- HOL-APP-02** **Deploy Applications in a Platform-as-a-Service (PaaS) World with Cloud Foundry**
Gain hands-on experience with VMware Cloud Foundry by deploying an application and elastically scaling the application infrastructure. You will configure the development environment to deploy applications to a VMware Micro Cloud Foundry server. If you want to learn more about Platform as a Service (PaaS) or if you are building custom applications, then this lab is a must! Product highlighted: Cloud Foundry.

- HOL-APP-03** **Enable Database as a Service (DBaaS) in Your Cloud with VMware vFabric Data Director**
Experience how VMware vFabric Data Director simplifies Oracle and vPostgres management when they are running on vSphere. You will gain hands-on experience with Database-as-a-Service (DBaaS) capabilities such as self-service provisioning, cloning and database upgrades. This lab is ideal for both database and vSphere administrators.

- HOL-APP-04** **Implement Cloud Ready Databases with VMware vFabric SQLFire**
In this lab you will gain hands-on experience with modern scale-out database design concepts, distributed SQL queries, dynamic and elastic horizontal scalability, continuous high availability and synchronization with existing databases. Product highlighted: VMware vFabric SQLFire.

- HOL-APP-05** **Scale Your Applications with VMware vFabric**
Learn how easy it is to scale your applications with VMware vFabric solutions. You will walk through the application-scaling capabilities of the vFabric suite. The lab highlights the dynamic nature of the vFabric runtime services, including vFabric Administration Server, tc Server, vFabric Web Server and GemFire.

- HOL-EUC-01** **Build and Operate the Mobile Secure Desktop**
Provide a secure workspace for your full-time staff and part-time contractors. Today's users demand access to corporate resources from multiple devices and operating systems, as well as the flexibility to work from home and remote offices. Products highlighted: VMware ThinApp and VMware vShield App.

- HOL-EUC-03** **Troubleshoot and Optimize VMware View**
This lab covers new performance features in View 5.1. You will touch all of the components of View, vSphere and Active Directory GPOs to troubleshoot the VDI desktop and conduct PCoIP tuning. Product highlighted: VMware View 5.1.

- HOL-EUC-05** **Never Lose an Email, or a Sense of Security, with VMware Zimbra**
Users today are mobile and leverage more devices than ever before. This lab will take you through a scenario where a user (Alice) has just had her laptop stolen. She had recently archived all of her email locally and is now nervous that she will have a compliance issue to deal with. Thankfully the IT team had recently upgraded their email to Zimbra version 8. Product highlighted: VMware Zimbra.

- HOL-EUC-07** **Social Collaboration for Your Enterprise with VMware Socialcast**
Learn VMware Socialcast, the market-leading enterprise social network. Socialcast enables your company to collaborate easily on ideas, documents and projects. Product highlighted: VMware Socialcast.

- HOL-EUC-02** **Build and Operate the Business Process Desktop**
Learn how VMware solutions add value to the business desktop through an improved end-user experience, Persona Management and universal communications.

- HOL-EUC-04** **Discover VMware Horizon Application Manager**
Gain hands-on experience using, administering and integrating VMware Horizon Application Manager. First, you will use the interface from different devices and add applications to the workspace. Second, you will entitle applications to users and create usage reports. Third, you will set up a SaaS integration. Learn VMware Horizon today.

- HOL-EUC-06** **Create Stunning Presentations with SlideRocket**
This lab will provide an overview of the capabilities of the SlideRocket presentation tool. You will create a free personal account and create your first online presentation showcasing some of the most exciting features of SlideRocket. You will learn how to use SlideRocket's sharing features and view analytics, and will leave with the knowledge of how to transform your presentations into powerful storytelling tools.

- HOL-EUC-08** **Secure and Simple Cloud Backup with Mozy**
Mozy Online Backup provides a secure, simple way to back up your data to the cloud. In this lab you will experience both the administrative and end-user experiences through two 30-minute lightning lab modules. You will back up files and restore a previous version. Product highlighted: Mozy.

Legend:



Lightning Lab



Advanced Lab