

VMware vSphere Web Client Solution Development Boot Camp

VMware Ecosystem and Solutions Engineering (EASE)

AT A GLANCE

The objective of this boot camp course is to provide VMware Engineering Ecosystem Partners' Engineers with the skills and knowledge needed to add their management content into the vSphere management environment so that their customers can manage the partner's solutions via VMware's vSphere Web Client.

Partner Engineering Services provides courses for many of the APIs and SDKs available from VMware. Courses are designed

to provide your engineers with the basic knowledge of our APIs, SDKs, and tools necessary to successfully produce a specific type of complementary product. Check with your Ecosystem Engineering business manager to see if there's a course applicable to the type of solution you are building. Custom courses are also available. Equip your team to build and maintain their VMware partner products.

Key Benefits

- Increase flexibility in software development lifecycle
- Leverage subject matter experts for quicker resolution of development and certification related issues
- Maximize the investment in VMware developer tools and technologies

Boot Camp Overview

This course is designed to teach students how to create vSphere Web Client solutions, including UI and mid-tier plugins and how to package and deploy the solution to mutual customers. It includes discussion of appropriate UI design as well as programming patterns using the vSphere Web Client APIs.

Developing vSphere Web Client solutions involves several disciplines: Web client programming to communicate with users and the mid-tier (Java) services; Java programming to communicate with the UI and back-end services; UI design that follows VMware's Design Guide for vSphere Web Client solutions; Packaging and staging solutions for deployment by clients. While small development organizations may have people that must master all of these disciplines, larger organizations may have developers that specialize in only one or two of these. To efficiently serve both audiences, this course is taught as a boot camp. That means that it consists of a series of modules, each concentrating on a unique discipline.

The modules in this boot camp, their duration and target audiences are:

vSphere Web Client (VWC) Overview and Solution Design:

This one-day module provides an overview of the VWC design

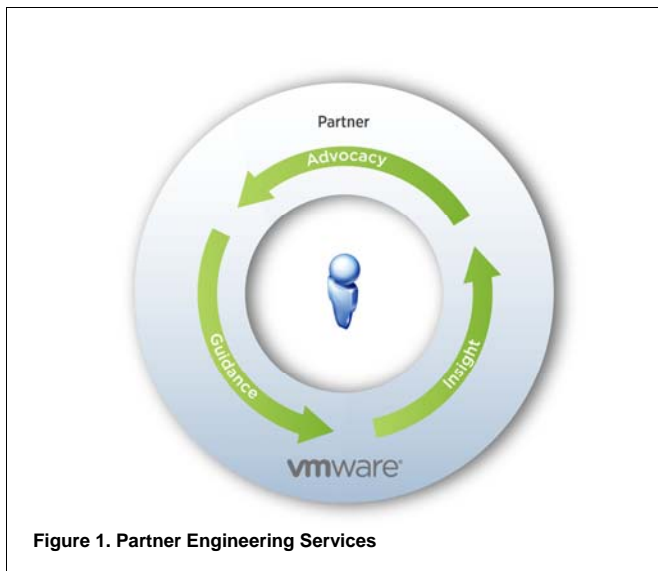


Figure 1. Partner Engineering Services

Overview

Developer Training

VMware Partner Engineering Services offers on-site and remote developer training sessions delivered by engineering teams from VMware that help you design, develop, deploy, operate, optimize, and support software compatible with VMware technologies. Workshops and events will also address issues across the software development lifecycle, enabling proactive measures to be taken to help reduce the chance for incidents that negatively affect your business



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goals, architecture, and a high-level discussion of the ways in which a developer can extend the VWC's functionality to create their own VWC solution. For example, to manage a hardware device or virtual appliance. It then introduces a method for planning a VWC solution, including UI and Java-level extensions. The discussion provides an exhaustive survey of each of the VWC UI Extension Points, why use them in a VWC Solution, and the data needed to plan their use. The discussion also discusses the purpose and planning data required to use mid-tier services including Data Provider Adapters, Property Provider Adapters, and Custom Java Services. There is a lab for planning a VWC Solution for a fictitious virtual appliance, which students then implement in subsequent modules.

This module is required for all attendees of this boot camp. As such, it is targeted at all vSphere Web Client developers, including User Experience engineers.

Developing vSphere Web Client UI Extensions:

This two-day module discusses the programming patterns used to extend the UI, including portlets, global views, management and monitoring sub-tab data-views, custom categories and object collections using extension templates. The discussion includes the patterns used with the Data Access Manager (DAM) to query the Data Service and display the vSphere Web Client Solution Development boot camp results in the VWC UI. It also discusses the programming patterns used to communicate between UI extensions and Java Services. For example to implement Action Menu items. There are approximately 20 lab activities that enforce the concepts and skills discussed in this module. This module is targeted at developers who implement the UI part of a vSphere Web Client solution.

Developing vSphere Web Client Mid-Tier Extensions:

Extending the Data Services and Implementing Actions. This one-and-a-half day module discusses the programming patterns used to create data provider adapters (DPAs) for custom objects, to create property provider adapters (PPAs) to extend existing managed objects, and to create custom Java services to support Action Menu items, global applications, etc. There are 8 lab activities that enforce the concepts and skills discussed in this module. This module is targeted at developers who implement the mid-tier part of a vSphere Web Client solution.

Packaging and Deploying vSphere Web Client Plugins:

This half-day module provides details for developers to package and stage their VWC solutions for deployment by customers, including a lab that reinforces the information presented. This module is targeted at IT personnel who package and stage

product for their customers to download from their organization's website, or developers that fulfill that same role for their organization.

Deploying a vSphere Web Client Development Platform:

This one-day module discusses the tool chain used to develop VWC solutions, with step-by-step instructions for deploying a development platform on either a Windows or Mac OSX system. There is a lab activity for the installation of each component of the tool chain. This module is targeted at developers that deploy their own development environments, or IT personnel who deploy development environments for their developers.

Course Prerequisites

Students must have certain skills and knowledge before attending this course. Having such knowledge and skills does not guarantee successful completion. Failure to have the required knowledge will make successful completion very difficult, if not impossible.

Students must have the following knowledge before attending this course:

Developer-level skills working with a Windows, Mac, or Linux operating system, including using supported browsers and development tools

Basic administrative-level skills working with a Windows, Mac or Linux operating system, including system tools for installing software

Duration:

This course is delivered in an instructor-led format in five (5) days in the classroom, including theory and hands-on labs. This course is currently only offered in Palo Alto California.

Course Price:

This course is priced at \$5,000 per participant.

Purchasing and Registering:

To purchase and register for this course and inquire about private boot camp or alternative dates, please email: partnerservices@vmware.com.

Schedule: Decmber 1 to 5, 2014



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