



New for the RTM release of Lab Management

Enhance **ALM**

Managing Virtual Environments using Visual Studio 2010

The new Lab Management features of Visual Studio 2010 offer organisations many great productivity benefits. Lab Management enables development and testing teams to work together more effectively to optimize the build process and minimize regression-testing efforts. It helps reduce costs associated with setup, teardown, and restoration of complex virtual environments to a known state for build automation, build deployment, and test execution.

Lab Management enables testers to capture snapshots of all the virtual machines in an environment during test execution and attach it to the bugs they raise. This lets developers see exactly what the tester saw and more quickly and easily identify the root cause of the problem.

This two-day instructor-led workshop provides attendees with the knowledge and skills to install and configuration all Lab Management components including Microsoft Hyper-V and Microsoft System Center Virtual Machine Manager. Attendees will learn how to create, manage and maintain virtual machines and templates as well as how to install and configure the necessary agents for deployment, build and test purposes.

Who Should Attend:

This course is unusual in that it crosses both development and IT Pro disciplines. While one of the primary groups to benefit from Lab Management is testers, this course is more focused at IT Pros and members of the development team that deploy their application.

To help ensure all prerequisites are met, organisations may wish to send a representative from both their release/development team and their IT Support areas.

Prerequisites:

Attendees booking on this course should be proficient Windows users with knowledge of both IT infrastructure and development.

Attendees should:

- Be familiar with installing and configuring operating systems
- Have a good understanding of networking, using remote desktop and virtualisation
- Be familiar with the build and deploy processes for in-house developed applications
- Be familiar with Microsoft Team Foundation Server 2010

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Course Outline:

Module 1: Overview of Visual Studio 2010

Module 2: Planning your Lab Environment

Module 3: Getting started with Windows Hyper-V

Module 4: Using System Center Virtual Machine Manager

Module 5: Creating Virtual Machine templates

Module 6: Configuring and provisioning virtual environments

Module 7: Configuring Build-Deploy-Test workflow

Module 8: Testing using Virtual Environments



Save time by optimising your Build-Deploy-Test workflow



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This course includes the following modules and topics:

Overview of Visual Studio 2010

- Overview of the Visual Studio 2010 family
- Overview of TFS architecture
- TFS Installation options

Planning your Lab Environment

- Lab Management components
- Planning our VM templates
- Optimising Lab performance

Getting started with Windows Hyper-VTM

- Installing and configuring Windows Server 2008 Hyper-V
- Understand Hyper-V Virtual Networking
- Create and manage Virtual Machines on the Hyper-V server

Using System Center Virtual Machine Manager

- Introduction to System Center Virtual Machine Management
- Create and configure virtual machines
- Overview of the VMM Library
- Managing multiple Hyper-V hosts

Creating Virtual Machine templates

- Importing virtual machines
- Installing Lab agents
- Modifying and maintaining templates

Configuring and provisioning virtual environments

- Storing environments for easy reuse
- Composing environments from existing deployments
- Running multiple lab instances using Network Isolation

Configuring Build-Deploy-Test workflow

- Extending builds to deploy into a lab environment
- Customising Lab Management workflow
- Lab Management activities and classes

Testing using Virtual Environments

- Working with Virtual Environments
- Effective use of snapshots to restore state
- Raising bugs with environment snapshots

* Please note – This list is subject to some minor changes as the course is constantly being refined and improved