Microsoft Azure - Starter Kits for Partners

Hands on Lab

Dev & Test Scenario

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## Overview

Using Microsoft Azure, as your Infrastructure as a Service (IaaS) platform, will enable you to create and manage your infrastructure quickly, provisioning and accessing any host ubiquitously. Grow your business through the cloud-based infrastructure, reducing the costs of licensing, provisioning and backup.

**Audience**: IT Pro, Architect, Application Owners and Developers

### Objectives

In this hands-on Lab, you will learn how to configure your Visual Studio Team Services team projects to automatically build and deploy to Azure web apps or cloud services. In addition, how to use Azure DevLab in order to Fast, easy, and lean Dev/Test environments.

### Prerequisites

The following is required to complete this hands-on lab:

* A Microsoft Azure subscription - [sign up for a free trial](http://aka.ms/WATK-FreeTrial)
* Visual Studio 2013 and the Azure SDK installed

## Exercises

This hands-on lab includes the following exercises:

1. Continuous delivery to Azure using Visual Studio Team Services
2. Create an Azure DevTest Lab

Estimated time to complete this lab: **90 minutes**.

## Continuous delivery to Azure using Visual Studio Team Services

1. You can configure your Visual Studio Team Services team projects to automatically build and deploy to **Azure web apps** or **cloud services**. (For information on how to set up a continuous build and deploy system using an on-premises Team Foundation Server, see [Continuous Delivery for Cloud Services in Azure](https://azure.microsoft.com/en-us/documentation/articles/cloud-services-dotnet-continuous-delivery/).)
2. This tutorial assumes you have Visual Studio 2013 and the Azure SDK installed. If you don't already have Visual Studio 2013, download it by choosing the **Get started for free** link at [www.visualstudio.com](http://www.visualstudio.com/). Install the Azure SDK from [here](http://go.microsoft.com/fwlink/?LinkId=239540).

Scenario Guidance: <https://azure.microsoft.com/en-us/documentation/articles/cloud-services-continuous-delivery-use-vso/#step-1-create-a-team-project>

## Create an Azure DevTest Lab

The new DevTest Labs solves a ton of challenges for DevOps teams wanting to build, deploy and test builds on a regular basis. DevTest Labs makes it easier to create test environments with reusable templates with everything your team needs to start developing and testing applications. In few clicks, you can create the environments where the last good build of your application is already installed and get working right away and with easy to use artifact blade extend those VMs to include additional functionality. . DevTest Labs makes it easier to control costs. As a Lab owner, you can set spending limits on your Labs, such as number of virtual machines (VM) per user, and number of VMs per Lab and helps save money with policies to automatically shut down VMs on a schedule. DevTest labs also Integrates with your existing release pipelines; leveraging premade plug-ins or our API to provision Dev/Test environments directly from your preferred continuous integration (CI) tool, integrated development environment (IDE) or automated release pipeline.

**Scenario Guidance:**

* [Create an Azure DevTest Lab](https://azure.microsoft.com/en-us/documentation/articles/devtest-lab-create-lab/)
* [Add a VM with artifacts to a DevTest Lab](https://azure.microsoft.com/en-us/documentation/articles/devtest-lab-add-vm-with-artifacts/)
* [Add owners and users to a DevTest Lab](https://azure.microsoft.com/en-us/documentation/articles/devtest-lab-add-devtest-user/)
* [Define lab policies](azure.microsoft.com/en-us/documentation/articles/devtest-lab-set-lab-policy)

## Summary

In this hands-on Lab, you have learnt how to configure your Visual Studio Team Services team projects to automatically build and deploy to Azure web apps or cloud services. In addition, how to use Azure DevLab in order to Fast, easy, and lean Dev/Test environments.

## Additional References:

* [Using Windows PowerShell Scripts to Publish to Dev and Test Environments](http://msdn.microsoft.com/en-us/library/azure/dn642480.aspx#BK_CustomBuild)
* [Debug programs that run on Azure virtual machines](http://msdn.microsoft.com/en-us/library/azure/ff683670.aspx)
* [Imaging Virtual Machines](https://github.com/Azure-Readiness/MicrosoftAzureTrainingKit/blob/master/Demos/Demo-ImagingVMs/Demo.md)
* [Web Deploy - Overview](http://www.iis.net/downloads/microsoft/web-deploy)
* [Install Web Deploy on Windows Manually](http://www.iis.net/learn/publish/using-web-deploy/configure-the-web-deployment-handler)