Microsoft Azure - Starter Kits for Partners

Hands on Lab

Application Servers Scenario

LAMP Stack

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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.

In this hands-on Lab, you will learn how to deploy a simple PHP application to a Web Farm hosted in Microsoft Azure IaaS, using MySQL and configuring load balancing/auto scaling.

**Estimated time** to complete this lab: **180 minutes**.

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

### 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)
* [Azure PowerShell 0.7.4](http://go.microsoft.com/fwlink/p/?linkid=320376)  or higher
* [Windows PowerShell 3.0](http://go.microsoft.com/fwlink/p/?LinkId=393708) or higher

## Exercises

## Infrastructure Provisioning

### Exercise 1: Creating the MySQL Cluster

Follow the following article, where we outline a shared-nothing two-node single-master MySQL high availability solution based on DRBD, Corosync and Pacemaker. Only one node is running MySQL at a time. Reading and writing from the DRBD resource is also limited to only one node at a time.

The purpose of this article is to explore and illustrate the different approaches available to deploy highly available Linux-based services on Microsoft Azure, exploring MySQL Server high availability as a primer. A video illustrating this approach is available on [Channel 9](http://channel9.msdn.com/Blogs/Open/Load-balancing-highly-available-Linux-services-on-Windows-Azure-OpenLDAP-and-MySQL).

Note: Make sure your use the VNET and storage account created in the previous steps.

**Scenario**: <https://azure.microsoft.com/en-in/documentation/articles/virtual-machines-linux-mysql-cluster/>

### Exercise 2: Creating the rest of LAMP Farm

The Microsoft Azure CustomScript Extension for Linux provides a way to customize your virtual machines (VMs) by running arbitrary code written in any scripting language supported by the VM (for example, Python, and Bash). This provides a very flexible way to automate application deployment to multiple machines.

You can deploy the CustomScript Extension using the Azure classic portal, Windows PowerShell, or the Azure Command-Line Interface (Azure CLI).

In this article we'll use the Azure CLI to deploy a simple LAMP application to an Ubuntu VM created using the classic deployment model.

<https://azure.microsoft.com/en-us/documentation/articles/virtual-machines-linux-classic-lamp-script/>

## Summary

In this hands-on Lab, you have learnt how to deploy a simple FARM solution in Microsoft Azure, using MySQL Cluster and Azure CustomScript Extension for Linux.