WMUG Saturday

Image Builder Workshop Guide

# WMUG Saturday - Image Builder Workshop Guide

## Overview

This workshop guide is intended to walk you through the (automated) deployment of a Windows 2016 server running MDT, WSUS and several other packages. We will be using PowerShell and Azure Resource Manager templates (ARM) to deploy and configure the server.

## What you will build

* A stand alone Windows 2016 Server
* Using a public IP address and RDP access
* Additional feature setup for:
  + WSUS
  + MDT
  + ADK (WAIK)
  + DHCP server
  + Converters

## Requirements

* PowerShell ISE
* Git Bash
* Code Editor (Visual Studio Code)
* Text Editor (Notepad ++)
* Azure PowerShell SDK cmdlets
* Azure Subscription with owner role (Azure Pass will be available)

## Help References

|  |  |
| --- | --- |
| Powershell ISE overview | https://docs.microsoft.com/en-us/powershell/scripting/core-powershell/ise/introducing-the-windows-powershell-ise?view=powershell-5.1 |
| Git Installation | https://git-scm.com/book/en/v2/Getting-Started-Installing-Git |
| Visual Studio Code | https://code.visualstudio.com/ |
| Azure Powershell installation | https://docs.microsoft.com/en-us/powershell/azure/install-azurerm-ps |

# Step 1 – Clone GitHub Repository

## Overview

In this first step we are going to clone a GitHub repository that includes the scripts and configuration files that will be used in this workshop.

## Detailed Steps

1. Retrieve subscription ID
   1. Login-AzureRMAccount
2. Start PowerShell ISE
3. Set-Execution policy bypass -scope process -force

# Step 5 – Deploy KeyVault

## Overview

KeyVault is an Azure service that allows you to store passwords, secrets, and cryptograpics keys in a secure manner. In this step you will be deploying KeyVault and storing the OMS Workspace key as well as admin credentials for your VM deployments.

## Detailed Steps

1. Set the $keyvaultName variable with the KeyVault name you want to use. Deploy the KeyVault by running:

$keyvaultName = "azd-kv-01"

$vault = New-AzureRmKeyVault `

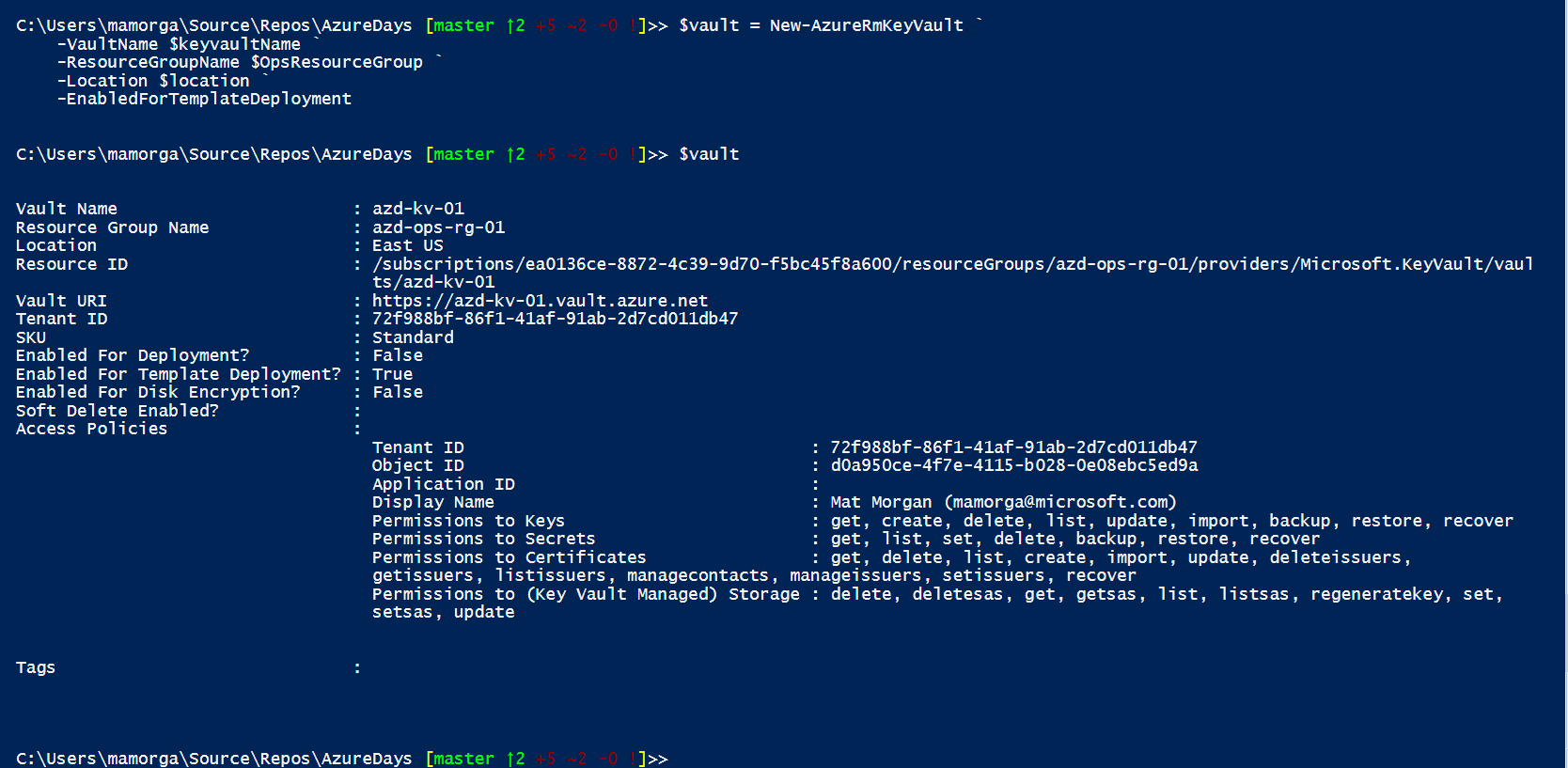
-VaultName $keyvaultName `

-ResourceGroupName $OpsResourceGroup `

-Location $location `

-EnabledForTemplateDeployment

1. When the deployment completes in a couple of minutes, type ‘$vault’ at the command pane prompt to return the KeyVault object properties.



Copy the Resource ID to notepad to paste later for VM deployments.

# Step 6 – Install Image Builder software

## Overview

In this step we are going to use PowerShell to download and install all required software packages and settings we need to build the Image Builder.

## Detailed Steps