

# Open it Client as Azure Application Guide

Version 9.8



Version: 9.8

Copyright © 1999-2020 Open iT, Inc.

### **TRADEMARKS**

Open iT® is a registered trademark of Open iT, Inc.

Other products, services, and brands mentioned herein are trademarks and/or registered trademarks of their respective owners.

### **ADDITIONAL SOFTWARE**

The following unmodified tools are included in the Open iT software product or used by the Open iT software:

- Apache HTTP server
- Software under the GNU General Public License
- A standard Perl interpreter
- PHP
- Java
- The Zlib data compression library
- The FOX Toolkit
- TinyXML
- Lua
- Python
- cURL

### **Table of Contents**

Preface
. Prerequisite
Üpload Open iT Client Deployment Script on Azure Storage Account
I. Deploying Open iT Client as Azure Application
2. Deploy as an Add-on to New Virtual Machine Instance
3. Deploy thru Get It Now
4. Deploy on Existing Virtual Machine(s) as an Extension Using Azure Portal
5. Deploy on Existing Virtual Machine(s) as an Extension Using Powershell Script
II. Open iT on Azure Resource Manager (ARM) Template
6. Adding Open iT Client on Existing ARM Template

## List of Figures

Creating New Storage Account	2
CreatiLinkng New Container	3
Creating New Container	3
Creating New Virtual Machine	5
Custom Script Extension	5
Browsing for Install Extension	
Deploy Open iT Client on New or Existing Virtual Machine	
Custom Script Extension	8
Browsing for Install Extension	8

## List of Examples

1.	protectedSettings	13
2.	Example ARM Template Snippet with values:	13

### **Preface**

This guide contains the procedures on how to successfully deploy the Open iT client as an Azure application.

For more information, please contact the Open iT Support team using any of the following:

```
Contact Details:

Support Email: support@openit.com
Support Phone Numbers:

EUROPE:
    Phone : +47 22 20 40 50

USA:
    Phone : +1 281 599 3400

ASIA:
    Phone : +63 42 710 8566

Local Open iT representatives in the region may also be contacted.
Please visit http://www.openit.com for international locations and worldwide contact details.
```

## Part I. Prerequisite

## Chapter 1. Upload Open iT Client Deployment Script on Azure Storage Account

Follow these instructions to upload the Open iT Client deployment script on Azure storage account:

1. Proceed to the next step if there's an existing Storage account. Create a new Storage account in Azure portal. Select the correct Subscription and Resource group.

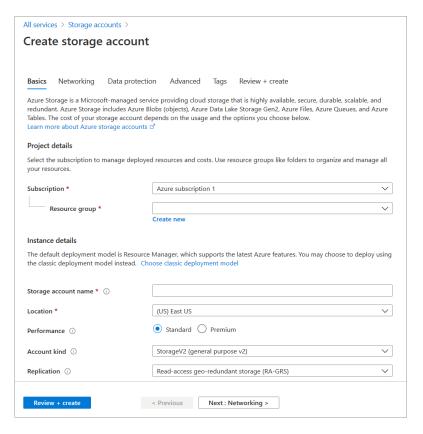


Figure 1. Creating New Storage Account

Proceed to the next step if there's an existing Container. Open the Storage account, then create a New container.

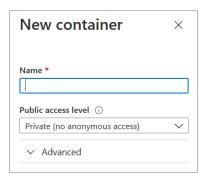


Figure 2. CreatiLinkng New Container

3. Upload the Open iT Client Deployment Script. The script can be downloaded from this link.

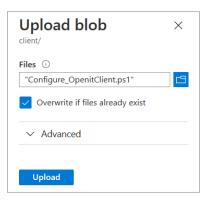


Figure 3. Creating New Container

## Part II. Deploying Open iT Client as Azure Application

## Chapter 2. Deploy as an Add-on to New Virtual Machine Instance

Follow these steps to deploy Open iT client as an add-on to new virtual machine instance:

- 1. On Azure portal, create and configure a new virtual machine instance.
- 2. On the virtual machine creation portal, go to Advanced tab and click Select an extension to install.

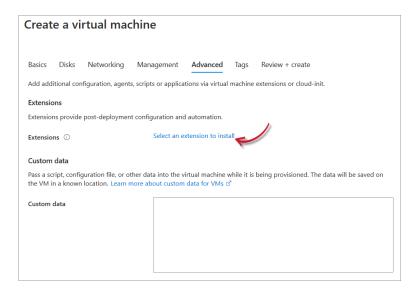


Figure 4. Creating New Virtual Machine

3. On the list of available resources, select Custom Script Extension then click Create.

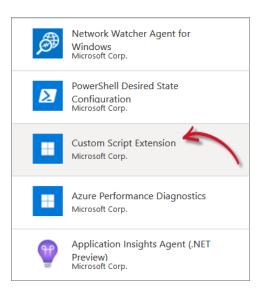


Figure 5. Custom Script Extension

4. Browse the script from the Storage account then select the uploaded Open iT Client Deployment Script.



Figure 6. Browsing for Install Extension

- 5. Click Ok.
- 6. Proceed with virtual machine creation.

## Chapter 3. Deploy thru Get It Now

Follow these steps to deploy Open iT client thru Get It Now:

- 1. In Azure Marketplace, search for Open iT Client and click Get It Now.
- 2. Select whether to deploy the Open iT Client on a new or existing virtual machine.

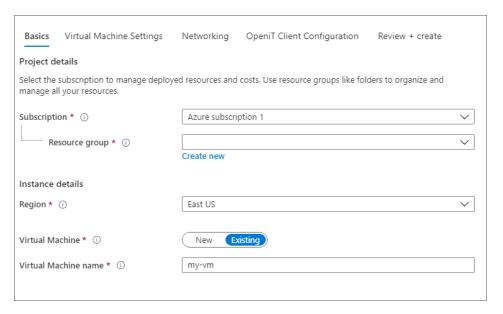


Figure 7. Deploy Open iT Client on New or Existing Virtual Machine

- 3. Supply the necessary information.
- 4. Click Create.

# Chapter 4. Deploy on Existing Virtual Machine(s) as an Extension Using Azure Portal

Follow these steps to deploy Open iT client on existing virtual machine as extension using Azure Portal:

- 1. Identify and select the virtual machine where to install Open iT client.
- 2. On the left pane of the virtual machine portal, click **Extensions**.
- 3. Click **Add** to create a new extension.
- 4. On the list of available resources, select Custom Script Extension then click Create.

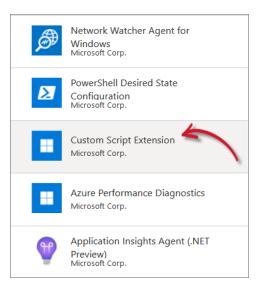


Figure 8. Custom Script Extension

5. Select the uploaded Open iT Client Deployment Script.



Figure 9. Browsing for Install Extension

6. Click Ok.

# Chapter 5. Deploy on Existing Virtual Machine(s) as an Extension Using Powershell Script

Follow these steps to deploy Open iT client on existing virtual machine as extension using Powershell Script:

1. Copy and save the script below as a powershell script:

```
param(
 [string] [Parameter(Mandatory = $true)] $SubscriptionId,
 [string] $customScriptExtensionName = 'Install_OpeniTClient_existing',
 [string] [Parameter(Mandatory = $true)] $storageAccountName,
 [string] [Parameter(Mandatory = $true)] $storageAccountContainer,
 [string] [Parameter(Mandatory = $true)] $storageSubscriptionId,
 [string] $openitServerURI
VMs = Get-AzVM \mid Where-Object {$\_.Name -like '*myvm*'} ## Here you should apply filter
if you want to limit installation to specific VMs
Select-AzSubscription -SubscriptionId $storageSubscriptionId
$fileUri = @("https://$storageAccountName.blob.core.windows.net/
$storageAccountContainer/$scriptName")
$settings = @{"fileUris" = $fileUri};
$storageKey = (Get-AzStorageAccountKey -Name $storageAccountName
-ResourceGroupName $storageAccountResourceGroup)[0].Value
$arguments = ''
if ($openitServerURI -ne '') {
   $arguments = "-ServerURI $openitServerURI"
$protectedSettings = @{"storageAccountName" = $storageAccountName; "storageAccountKey" =
$storageKey; "commandToExecute" = "powershell -ExecutionPolicy Unrestricted -File
$scriptName $arguments"};
Select-AzSubscription -SubscriptionId $SubscriptionId
foreach($vm in $VMs){
   Write-Output "Starting VM $($vm.Name)"
   Start-AzVm -ResourceGroupName "$($vm.ResourceGroupName)" -Name "$($vm.Name)"
   Write-OUtput "Working on vm $($vm.Name)"
   $extensions = (Get-AzVm -ResourceGroupName "$($vm.ResourceGroupName)" -Name
   "$($vm.Name)").Extensions
   foreach($ext in $extensions)
      if($ext.VirtualMachineExtensionType -eq "CustomScriptExtension"){
         Write-Output "Removing CustomScriptExtension with name $($ext.Name) from vm
         $($vm.Name)"
         Remove-AzVMExtension -ResourceGroupName "$($vm.ResourceGroupName)" -VMName
         "$($vm.Name)" -Name $ext.Name -Force
         Write-Output "Removed CustomScriptExtension with name $($ext.Name) from vm
         $($vm.Name)"
```

- 2. Supply all the required parameters of the script and update the filter to limit installation to specific virtual machines.
- 3. Run the powershell script.

## Part III. Open iT on Azure Resource Manager (ARM) Template

## Chapter 6. Adding Open iT Client on Existing ARM Template

To add Open iT on an existing ARM template:

Open ARM Template and append the json block to the template's resources.

```
"apiVersion": "2019-07-01",
"type": "Microsoft.Compute/virtualMachines/extensions",
"name": "[concat('<your-virtual-machine-name-here>','/', 'Install_OpeniTClient')]",
"location": "<your-virtual-machine-location-here>",
"dependsOn": [
"[resourceId('Microsoft.Compute/virtualMachines', '<your-virtual-machine-name-here>')]"
"tags": {
"displayName": "config-openit"
"properties":{
"publisher": "Microsoft.Compute",
"type": "CustomScriptExtension",
"typeHandlerVersion": "1.10",
"autoUpgradeMinorVersion": true,
"settings": {
"fileUris":
"<openit-client-deployment-script-location-here>"
"commandToExecute": "[concat('powershell -ExecutionPolicy Unrestricted -File
<openit-client-deployment-script-filename-here> <arguments-here>')]"
"protectedSettings": {}
```

Fields:

#### <your-virtual-machine-name-here>

The name of the virtual machine resource on ARM Template

### <your-virtual-machine-location-here>

The location of the virtual machine resource on ARM Template

#### <openit-client-deployment-script-location-here>

The location of the Open iT Client Deployment Script. Use this *link* as the script location or copy and save it elsewhere.



### **Note**

The location endpoint must be accessible in the VM.

In case using Azure storage account as location of the deployment script, supply **protectedSettings** to access it.

```
"protectedSettings": {
"storageAccountKey": "<storage-account-key-here>",
"storageAccountName": "<storage-account-name-here>"
}
```

Example 1. protectedSettings

### <openit-client-deployment-script-filename-here>

The filename of the Open iT Client Deployment Script

### <arguments-here>

Pass argument to the script to connect to your Open iT Client to the Open iT Server to do that just replace this field as **-ServerURI** http://eyourserver>:eport>

On this example, Open iT Client will be installed in a VM with name myvm123 located at southeastasia.

```
"apiVersion": "2019-07-01",
"type": "Microsoft.Compute/virtualMachines/extensions",
"name":#"[concat('myvm123','/', 'Install_OpeniTClient')]",
"location": "southeastasia",
"dependsOn": [
"[resourceId('Microsoft.Compute/virtualMachines', 'myvm123')]"
],
"tags": {
"displayName": "config-openit"
"properties": {
"publisher": "Microsoft.Compute",
"type": "CustomScriptExtension",
"typeHandlerVersion": "1.10",
"autoUpgradeMinorVersion": #true,
"settings": {
"fileUris": [
"https://raw.githubusercontent.com/openitdotcom/azure-templates/master/
openitclient-windows/scripts/Configure_OpeniTClient.ps1"
"commandToExecute": "[concat('powershell -ExecutionPolicy Unrestricted -File
Configure_OpeniTClient.ps1')]"
"protectedSettings": {}
```

**Example 2. Example ARM Template Snippet with values:**