**CWP Azure VM Extension installer PowerShell Script Help**

The script InstallVMExtension.ps1 will install the Cloud Workload Protection agent on supported Azure VM’s.

**Prerequisites**

**To perform the following procedure, you must already have:**

* Access to a valid Cloud Workload Protection account.
* Access to an Azure account that is connected with Cloud Workload Protection.
* See Setting up an Azure connection: <http://help.symantec.com/cs/SCWP/SCWP/v113454583_v111037498/Setting-up-an-Azure-connection?locale=EN_US>
* Azure PowerShell with Administrator privilege.
* List of of the virtual machine where you want to install the agent via the CWP VM Extention
* PowerShell 3.0 or above and Azure Module for PowerShell should have been installed.
  1. Install Azure Module: <https://www.microsoft.com/web/handlers/webpi.ashx/getinstaller/WindowsAzurePowershellGet.3f.3f.3fnew.appids>
  2. .NET Framework 4.5 or above: <https://www.microsoft.com/en-in/download/details.aspx?id=42642>
  3. Upgrade PowerShell: https://www.microsoft.com/en-in/download/details.aspx?id=40855

**This ‘**script InstallVMExtension.ps1 ‘ **Script performs the following steps for each compatible virtual machine in your Azure environment where you want to install the Cloud Workload Protection agent.**

**To install the agent using PowerShell Script**

1. On the Cloud Workload Protection portal, go to Settings > Downloads.
2. Under Authentication Details, press Show and note down the following values:
   1. Customer ID
   2. Domain ID
   3. Customer Secret Key
3. On the Cloud Workload Protection portal, go to Settings > API Keys
4. Press Show and note down the following values:
   1. Client ID
   2. Client Secret Key
5. Start Azure PowerShell as an administrator.

**Type the following commands on the Azure PowerShell window to run the script**:

* Sample 1 : .\InstallVMExtension.ps1 -customerId <Customer ID> -domainId <Domain ID> -secretKey <Customer Secret Key> -clientId <Client ID> -clientSecretKey <Client Secret Key> -forceReboot yes -filePath .\config.txt
  + If Config file option is specified as in above usage, config.tx files should contains below parameters
  + subscriptionId=<Subscription-Id>
  + vmNames=**AppServer, DBServer, WebServer, WindowsSQLIIS**
* Sample 2 : .\InstallVMExtension.ps1 -customerId <Customer ID> -domainId <Domain ID> -secretKey <Customer Secret Key> -clientId <Client ID> -clientSecretKey <Client Secret Key> -forceReboot yes -vmNameList AppServer, DBServer, WebServer, WindowsSQLIIS -subscriptionId <Subscription-Id>
* E.g.: InstallVMExtension.ps1 -customerId SEJxec\*WP8STA8YCxAg -domainId Dqdf\*64IITB2w -secretKey 59df6c7\*d780366919939daae800 -clientId O2ID\*ru61uhhei0qsrc3k4p69 -clientSecretKey t6r4mc3pf\*02huhg2srjhc5q -forceReboot yes -vmNameList DBServers, WebServers -subscriptionId 1e6\*\*00-3\*19-4\*3c-ba38-82f7\*\*\*8b9d4
* For Linux, enter Extension Name and Extension Type as SCWPAgentForLinux, and Version as 1.5.
* For Windows, enter Extension Name and Extension Type as SCWPAgentForWindows, and Version as 1.4.

If you specify forceReboot = yes, the command restarts the virtual machine after the agent is installed. Specify forceReboot = no to restart the virtual machine manually at your own convenience. You must restart the virtual machine for the agent installation to take effect. Default value set is yes. Until you restart the virtual machine, CWP console will show ‘Agent Status’ as ‘Reboot Required’.

When you run the script, Azure PowerShell prompts you to log on to the Azure portal. Log on using with an Azure account that ‘Owner’ or “User access administrator” credentials.

The Azure PowerShell Script will display the status of the installation after it completes installation on all VM’s.

After the agent is installed and the virtual machine is restarted, go to the Instances page of the Cloud Workload Protection portal. The ‘Agent Status’ for the virtual machine should show ‘Installed’.

Below is the sample script run log:

PS .: InstallVMExtension.ps1 -customerId SEJxec\*WP8STA8YCxAg -domainId Dqdf\*64IITB2w -secretKey 59df6c7\*d780366919939daae800 -clientId O2ID\*ru61uhhei0qsrc3k4p69 -clientSecretKey t6r4mc3pf\*02huhg2srjhc5q -forceReboot yes -vmNameList DBServers, WebServers -subscriptionId 1e6\*\*00-3\*19-4\*3c-ba38-82f7\*\*\*8b9d4

Subscription Id is 1e6\*\*00-3\*19-4\*3c-ba38-82f7\*\*\*8b9d4

VM-0 is CWPRHEL74-001

VM-1 is CWPUbuntu14-001

VM-2 is CWPWin2016-001

VM-3 is CWPWin2k12-001

Environment : AzureCloud

Account : <user>@symantec.com // Removed original values

TenantId : <Tenant Id > // Removed original Tenant details

SubscriptionId : xxxxxxxxxxxxxxxxxxxxxxxxxx //Removed original Subscription details

SubscriptionName : M\*\*\*E1-N\*2-E\*G-PROD

CurrentStorageAccount :

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11/02/2018 - 10:19:58 - Install VM Extension Script Started.

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\*\*\*\*\*\*\*\*\*\*\*\* Customer data input \*\*\*\*\*\*\*\*\*\*\*\*

Customer Id : xxxxxxxxxxxxxxxxxxxxxxx

Domain Id : xxxxxxxxxxxxxxxxxxxxxxxxx

Secret Key : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Extension Publisher Name : Symantec.CloudWorkloadProtection

Unix Extension Name : SCWPAgentForLinux

Unix Extension Version : 1.5

Unix Extension Type : SCWPAgentForLinux

Windows Extension Name : SCWPAgentForWindows

Windows Extension Version : 1.4

Windows Extension Type : SCWPAgentForWindows

Force Reboot Option : yes

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PowerState Id ExtensionInstal ResourceGroup Location Name CWPExtensionTy CWPExtensionNa CWPExtensionVe OSPlatform

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Deallocated 3 False OELTESTING eastus RajOra69DND SCWPAgentFo... SCWPAgentFo... 1.5 Linux

Deallocated 4 False AGENTTESTHU westus OELRHEL74HU SCWPAgentFo... SCWPAgentFo... 1.5 Linux

Deallocated 5 False AGENTTESTHU westus OELRHEL74HU2 SCWPAgentFo... SCWPAgentFo... 1.5 Linux

Running 6 False CWPINSTALLVM... southeastasia CWPRHEL74-001 SCWPAgentFo... SCWPAgentFo... 1.5 Linux

Running 7 False CWPINSTALLVM... southeastasia CWPWin2k12-001 SCWPAgentFo... SCWPAgentFo... 1.4 Windows

Running 8 False CWPINSTALLVM... SouthIndia CWPWin2016-001 SCWPAgentFo... SCWPAgentFo... 1.4 Windows

Deallocated 9 False AGENTTESTHU westus2 CentOS67HU SCWPAgentFo... SCWPAgentFo... 1.5 Linux

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VM's Selected to install extensions are

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1.5 False Running SCWPAgentForL... CWPINSTALLVME... CWPRHEL74-001 southeastasia SCWPAgentForL... Linux

1.4 False Running SCWPAgentForW... CWPINSTALLVME... CWPWin2k12-001 southeastasia SCWPAgentForW... Windows

1.4 False Running SCWPAgentForW... CWPINSTALLVME... CWPWin2016-001 SouthIndia SCWPAgentForW... Windows

INFO: CWPUbuntu14-001: Is running a Linux OS, extension.

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Installing VM Extension on Virtual Machine [ CWPUbuntu14-001 ]

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SUCCESS: CWPUbuntu14-001: Extension installed successfully

INFO: CWPRHEL74-001: Is running a Linux OS, extension.

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Installing VM Extension on Virtual Machine [ CWPRHEL74-001 ]

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SUCCESS: CWPRHEL74-001: Extension installed successfully

INFO: CWPWin2k12-001: Is running a Windows OS, extension.

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Installing VM Extension on Virtual Machine [ CWPWin2k12-001 ]

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SUCCESS: CWPWin2k12-001: Extension installed successfully

INFO: CWPWin2016-001: Is running a Windows OS, extension.

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Installing VM Extension on Virtual Machine [ CWPWin2016-001 ]

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SUCCESS: CWPWin2016-001: Extension installed successfully

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Extension Symantec.CloudWorkloadProtection - Installation Results

Installation Successful : 4

Already Installed : 0

Installation Failed : 0

VMs Not Running : 0

Extension Not Compatible with OS: 0

Total VMs Processed :

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VM Extension Install Status is as below .

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CWPExtensionVer ExtensionInstal PowerState CWPExtensionTyp ResourceGroupN Name Location CWPExtensionNa Reason OSPlatform

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1.5 SUCCESS Running SCWPAgentFor... CWPINSTALLV... CWPRHEL74-001 southeastasia SCWPAgentFo... Successfull... Linux

1.4 SUCCESS Running SCWPAgentFor... CWPINSTALLV... CWPWin2k12-001 southeastasia SCWPAgentFo... Successfull... Windows

1.4 SUCCESS Running SCWPAgentFor... CWPINSTALLV... CWPWin2016-001 SouthIndia SCWPAgentFo... Successfull... Windows

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11/02/2018 - 10:41:05 - Install VM Extension Script Complete.

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