

Install DLP agent using SCCM

This page is intended for QA Engineers who would like to test DLP agent installation using the Microsoft System Center Configuration Manager (SCCM, also known as ConfigMgr), formerly Systems Management Server (SMS) but others can read it too for obtaining more information. Please note that information in this document is based on my own research and experiments that I performed around May, 2016 so some information might be obsolete.

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Install agent through SCCM

Before starting all this, it is worthwhile to understand certain terminologies of the SCCM, including the following:

1. Sites
2. Hierarchies
3. Device Collections
4. Distribution Points
5. Distribution Points Group
6. Packages
7. Programs
8. Applications – Differences between Packages, Programs and Applications.
9. SCCM client and how to verify if the client is properly functional at the endpoint.

In SCCM console (SCCM 2012), select 'Software Library' and then from Application Management Applications window, click to create a new Application

In the Create Application Wizard, choose to manually specify the application information. This is because the Wizard automatically detects information only through an MSI and since we install through a BAT script, we use manual mode:

Specify the name of the Application as well as the other fields as necessary on the General Information screen. Make sure that the 'Domain Administrator' is chosen as the owner of the application to properly deploy and install the application:

Similarly, fill the Application Catalog screen as seen below:

On the next screen, click 'Add' to create a new Deployment type:

This will launch the Create Deployment type wizard:

Make sure that while selecting the location of the installers, the location has to be preferably within the domain of the SCCM client, only then it will be able to access the installer files. And even within the domain, it has to be a share that is accessible without credentials. For testing purpose, I usually place the installers on the SCCM-SR (the system where SCCM server is deployed) itself and then share that folder for Everyone.

In Detection Rule Window, select 'Setting type' as 'Windows Installer' instead of the default 'File System'. Then select the MSI file for the DLP agent. This will automatically populate the Agent Product Code as well as other parameters as seen below:

In the next window, select 'Install for system' because DLP agent is to be installed for system-wide use and not for a single user.

All other requirements and dependencies of the agent installation are already handled within the DLP agent installation so nothing needs to be specified here.

Review the package on the summary screen:

Similarly complete the 'Add Application Wizard':

Deployment of Agent package

From Assets and Compliance screen on SCCM, check the 'Device Collections' menu. I created a sample Device collection with just 1 endpoint in it for my tests.

From Software Library menu at the bottom, select the package to be installed (DLP Agent) and then select 'Deploy'.
Choose Device Collections and then choose the desired 'collection':

Select a distribution point:

Use default values at the rest of the screens. Complete the package deployment:

DLP Agent Upgrade

In order to instruct SCCM to use one 'Application Definition' as Upgrade of another Application, make use of the SCCM utility of 'Supersedence' in the Application Properties dialog box:

If we deploy this application, it shows the window that clearly indicates that if the superseded version (the indicated older version of the application is found), then it should UPGRADE to the new version (and not replace or uninstall and put new version). Also, since we ourselves specify 'ScriptedUpdater_14.0.1' deployment type to supersede here, so the conclusion of the above row is: "If 12.5.2 app is found in a collection, use 'ScriptedUpdater_14.0.1' to upgrade".

References:

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