



NetBackup Deployment Template User Guide for System Center Configuration Manager (SCCM)

September 25, 2017

NetBackup Deployment Template User Guide for SCCM

Third-party mass-deployment tools like System Center Configuration Manager (SCCM) and Chef are available for mass deployment on different platforms. These tools help to configure systems, deploy software, and orchestrate more advanced IT tasks such as continuous deployments and performing custom actions before and after the deployment.

Customers can use these third-party mass-deployment tools for deploying NetBackup clients on platform such as Linux, Solaris, AIX, HP-UX, and Windows. These clients support different methods for deployment.

Veritas has developed deployment templates for SCCM to deploy NetBackup clients. This document explains the methods on how to use these SCCM templates.

Software requirements

Ensure that the SCCM client is installed on all the servers where NetBackup client is to be installed.

Ensure that PowerShell 2.0 is available on all servers.

Ensure the version level for SCMM is Microsoft System Center Configuration Manager 2012 R2

All windows platforms are supported. See the NetBackup Software Compatibility list for specific versions that NetBackup supports:

<https://netbackup.com/compatibility>

Deploying NetBackup clients using SCCM deployment templates

SCCM templates contain an input file and a PowerShell script to facilitate NetBackup client deployment. The templates use NetBackup silent install scripts in combination with PowerShell to install the NetBackup client.

Note: The SCCM template name for the NetBackup client deployment is `Deployclient.ps1`

Installing or upgrading NetBackup clients using the SCCM template

To download files and prepare for the deployment

1. Create a directory named `Data` on the SCCM share. The following example uses a share named `Mastershare`:

```
\\Shareserver\Mastershare\Data
```

2. Download the `SCCMTemplate.zip` file from the Veritas Services and Operations Readiness Tools (SORT) site (<https://sort.veritas.com/utility/netbackup/deployment>).

Extract the files from the `.zip` file and copy the files to the `Data` directory.

3. Copy the NetBackup client installable files for Windows to the SCCM share, as follows:

```
\\FileShareServer\NetBackup_8.1_Win\PC_ClnT
```

4. In the SCCM **Assets and compliance** tab, ensure the collection includes all the servers on which NetBackup clients need to be deployed.

NetBackup Deployment Template User Guide for SCCM

5. Edit the `\Data\masterlistfile.csv` to associate master server names and client names and the master server fingerprint and security token details, as in the following example:

	A	B	C	D
1	master	clients	fingerprint	token
2	master1	client1	55:21:83:F3:37:3F:C3:44:20:5D:C3:D9:53:4D:E8:29:03:01:B5:40	KOPWDDPCZXEUGVUO
3	master1	client2	55:21:83:F3:37:3F:C3:44:20:5D:C3:D9:53:4D:E8:29:03:01:B5:40	KOPWDDPCZXEUGVUO
4	master2	client3	65:21:83:F3:37:3F:C3:44:20:5D:C3:D9:53:4D:E8:29:03:01:B5:40	ASDFDDPCZXEUGVUO
5	master2	client4	65:21:83:F3:37:3F:C3:44:20:5D:C3:D9:53:4D:E8:29:03:01:B5:40	ASDFDDPCZXEUGVUO
6				

The master server names and client names in the file should be fully qualified domain names (FQDNs).

The fingerprint and token details are unique to the master server. They are generated when you install the NetBackup master server. For more information, see the *NetBackup 8.1 Installation Guide* or the *NetBackup 8.1 Upgrade Guide*.

To create the SCCM deployment package

1. In the SCCM administration console, open the **Software library** tab.
2. Go to **Application Management > Packages** and select **Create Package**.
3. Provide a name and brief description for the package, then select **This package contains source files** and specify the path of the SCCM share.

Create Package and Program Wizard

Package

Specify information about this package

Enter a name and other details for the new package. To take full advantage of new features that include the Application Catalog, use an application instead.

Name: Netbackup Client Deployment

Description: Netbackup Client Deployment

Manufacturer:

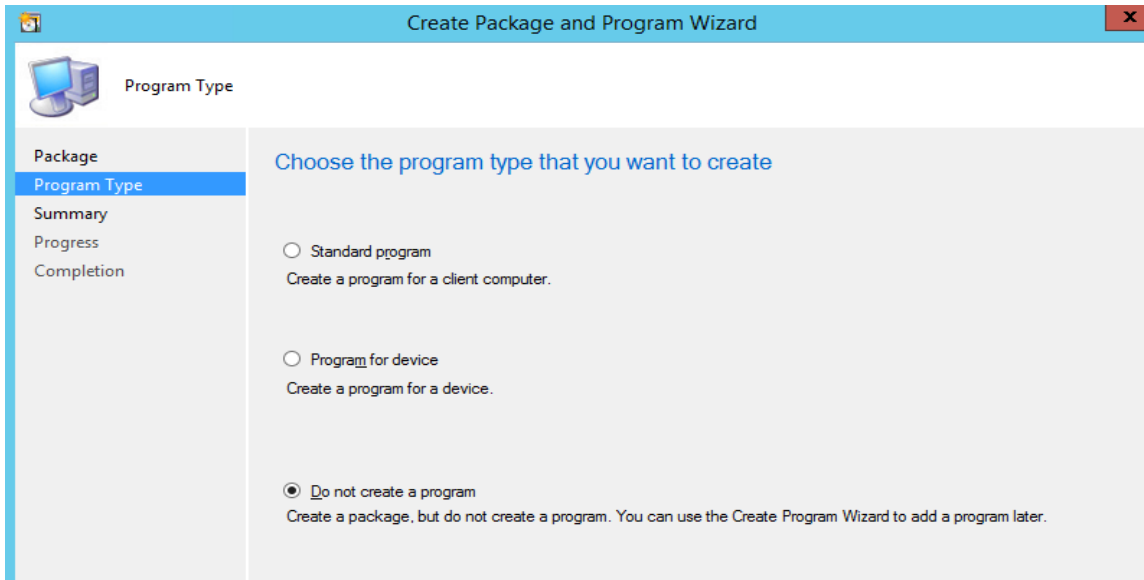
Language: Version:

☒ This package contains source files

Source folder: \\10.210.77.22\Mastershare **Browse...**

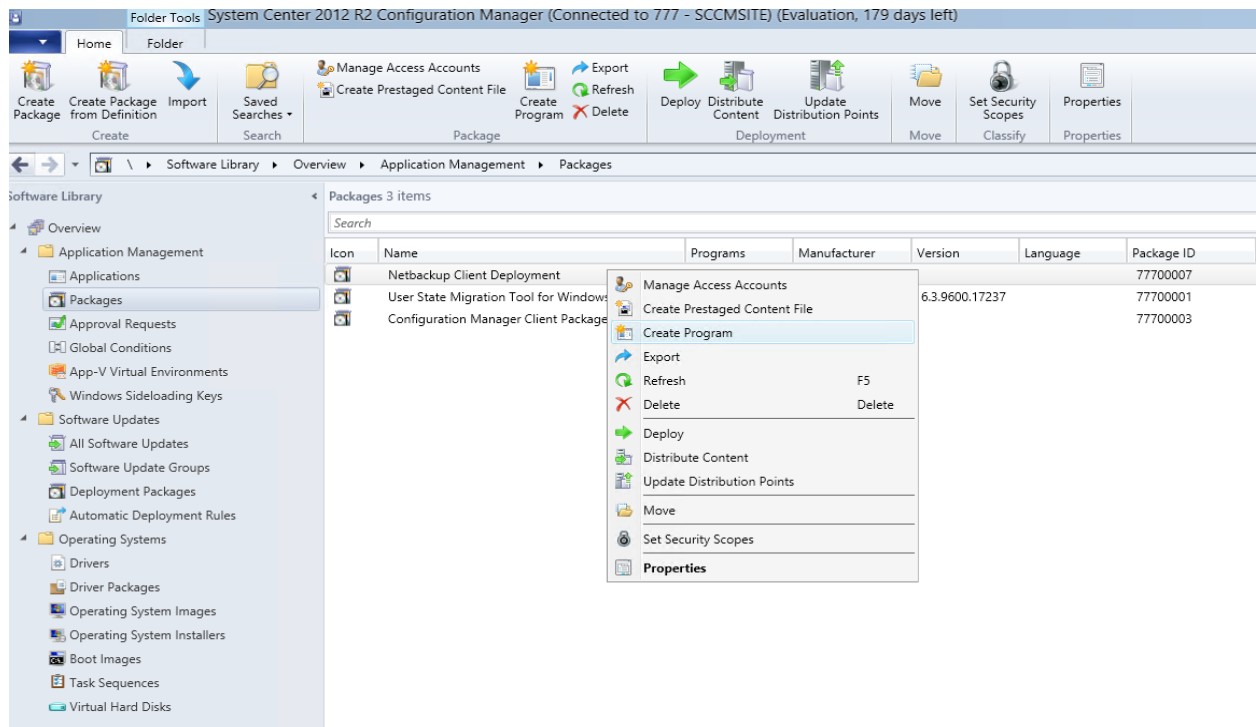
NetBackup Deployment Template User Guide for SCCM

- On the **Program Type** page, select **Do not create a program**, then complete the wizard.



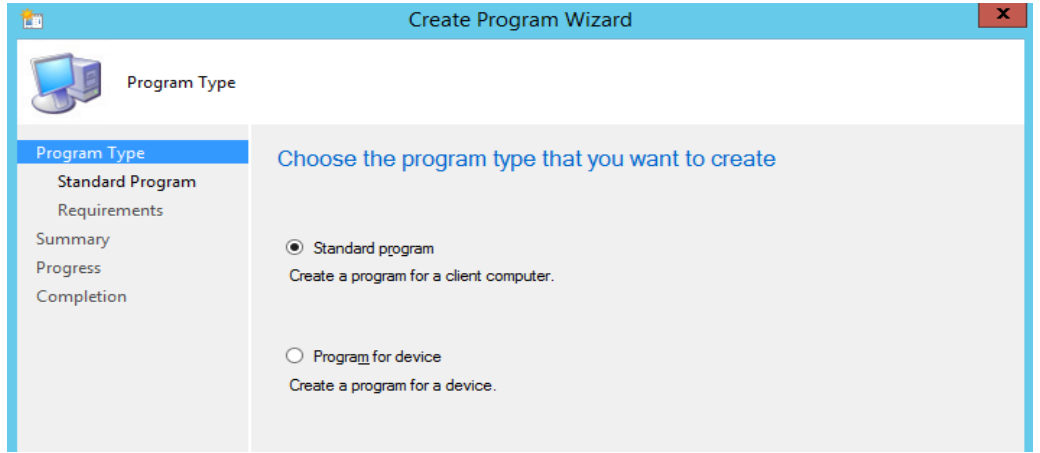
To create the deployment program

- In SCCM, right-click the **Netbackup Client Deployment** package and select **Create program**.



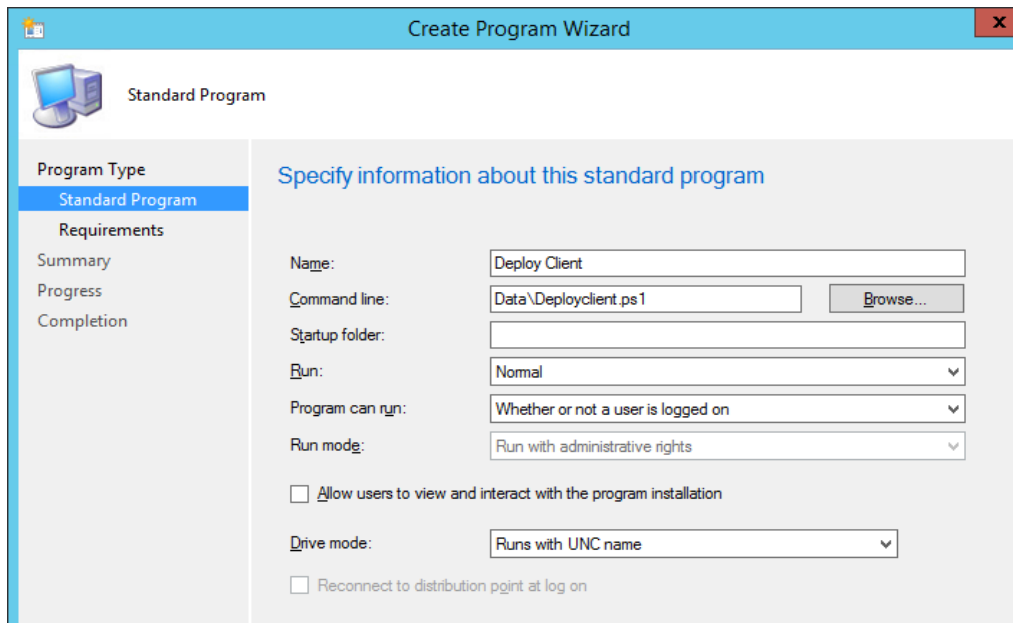
NetBackup Deployment Template User Guide for SCCM

2. The **Create Program Wizard** launches. Select **Standard program** as the program type.



The screenshot shows the 'Create Program Wizard' window with the 'Program Type' tab selected. The left sidebar lists 'Program Type', 'Requirements', 'Summary', 'Progress', and 'Completion'. The main area is titled 'Choose the program type that you want to create'. It contains two radio button options: 'Standard program' (selected) with the description 'Create a program for a client computer.', and 'Program for device' with the description 'Create a program for a device.'

3. On the **Standard Program** screen, specify the name **Deploy Client** and click **Browse**. Navigate to the `\\Shareserver\Mastershare\Data` directory. Select `Deployclient.ps1` and specify that the program can run whether a user is logged on, as follows:



The screenshot shows the 'Create Program Wizard' window with the 'Standard Program' tab selected. The left sidebar lists 'Program Type', 'Standard Program' (selected), 'Requirements', 'Summary', 'Progress', and 'Completion'. The main area is titled 'Specify information about this standard program'. It contains several fields and dropdown menus: 'Name' (Deploy Client), 'Command line' (Data\Deployclient.ps1) with a 'Browse...' button, 'Startup folder' (empty), 'Run' (Normal), 'Program can run' (Whether or not a user is logged on), 'Run mode' (Run with administrative rights), a checkbox for 'Allow users to view and interact with the program installation' (unchecked), 'Drive mode' (Runs with UNC name), and a checkbox for 'Reconnect to distribution point at log on' (unchecked).

NetBackup Deployment Template User Guide for SCCM

- On the Requirements page, select **This program can run on any platform**, and complete the wizard.

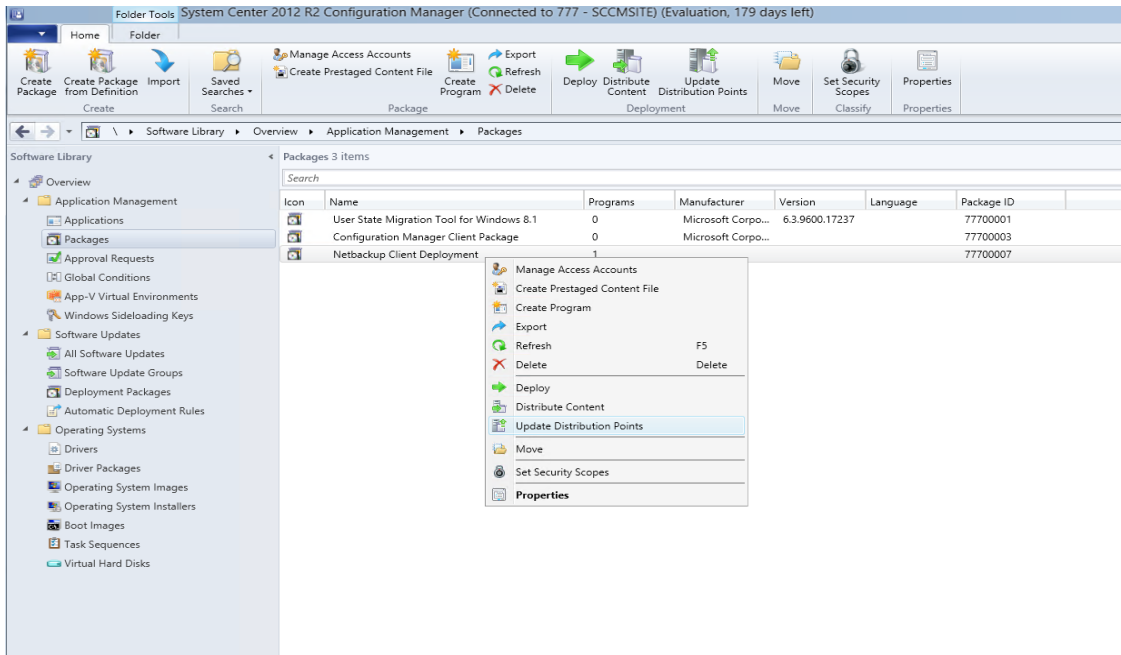
The screenshot shows the 'Create Program Wizard' dialog box, specifically the 'Requirements' page. The left sidebar contains a tree view with 'Program Type', 'Standard Program', 'Requirements' (selected), 'Summary', 'Progress', and 'Completion'. The main area is titled 'Specify the requirements for this standard program'. It contains several options: 'Run another program first' (unchecked), 'Always run this program first' (unchecked), and 'Platform requirements'. Under 'Platform requirements', 'This program can run on any platform' is selected with a radio button. Below this, there is a list box with several options: 'All Windows RT', 'All Windows RT 8.1', 'All Windows 7 (64-bit)', 'All Windows 8 (64-bit)', and 'All Windows 8.1 (64-bit)'. At the bottom, there are two dropdown menus: 'Estimated disk space:' set to 'Unknown' and 'Maximum allowed run time (minutes):' set to '120'. The bottom of the dialog has four buttons: '< Previous', 'Next >', 'Summary', and 'Cancel'.

To deploy the client

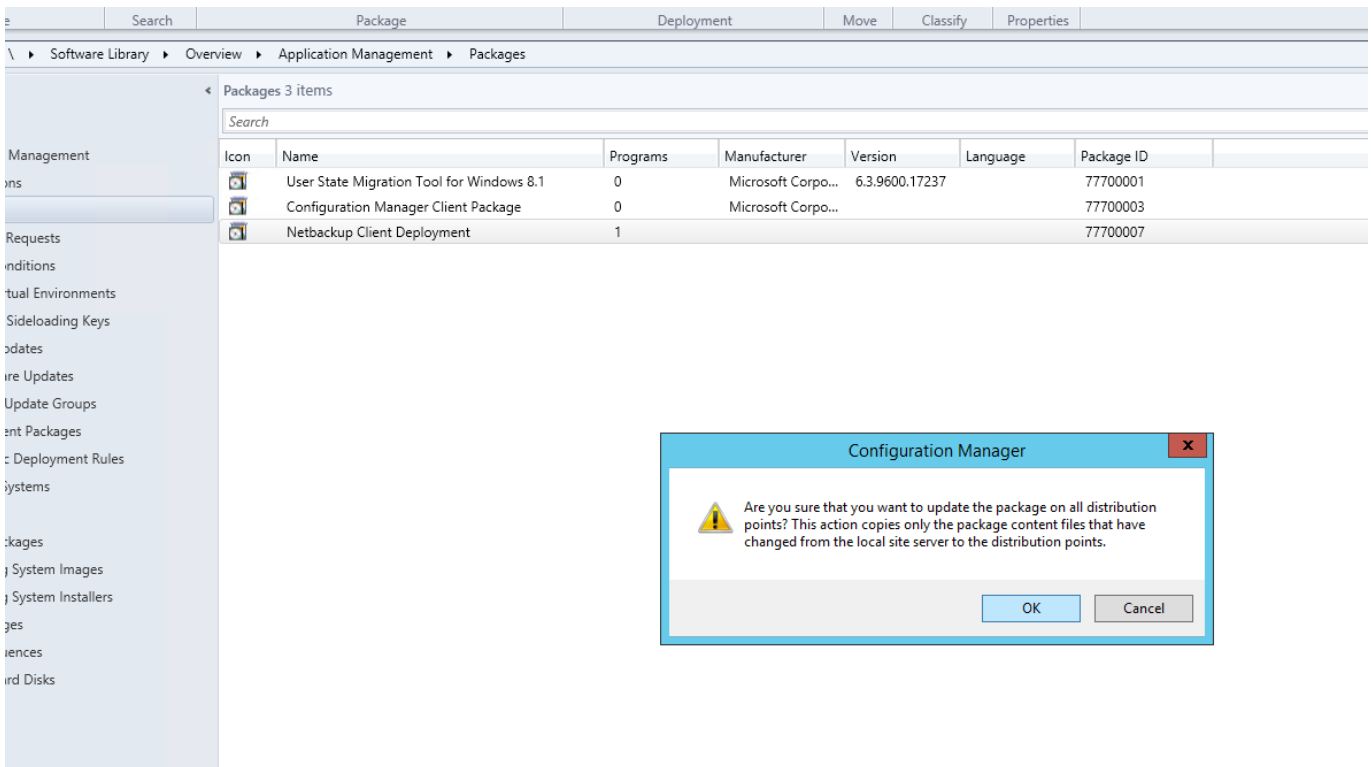
- Before starting the deployment, ensure that the following prerequisites are in place:
 - The `Masterlistfile.csv` file contains the master server(s), clients, fingerprints and tokens
 - The NetBackup client software installation package is present in the `Data` on the SCCM share, as in the following example: `\\Shareserver\Mastershare\Data`
 - The collection containing the servers is present under the SCCM **Assets and compliance** tab

NetBackup Deployment Template User Guide for SCCM

2. In SCCM **Application Management > Packages**, right-click **NetBackup Client Deployment** and select **Update Distribution Points**, as follows:

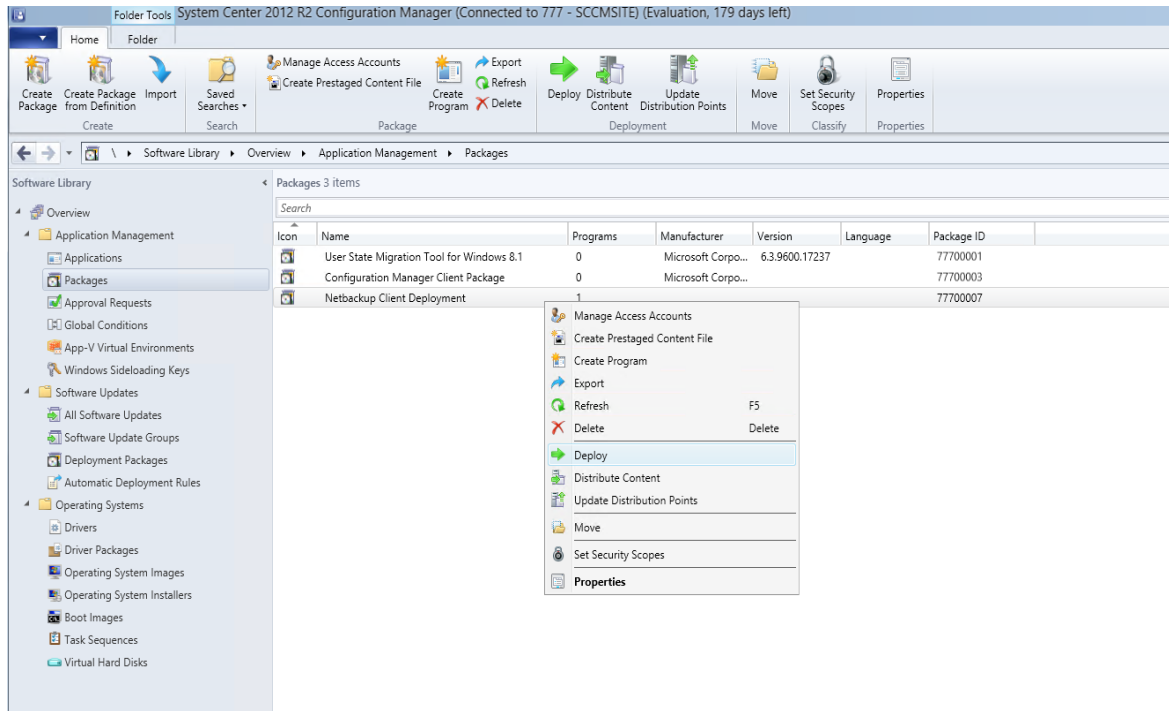


3. In the **Configuration Manager** dialog, click **OK**.

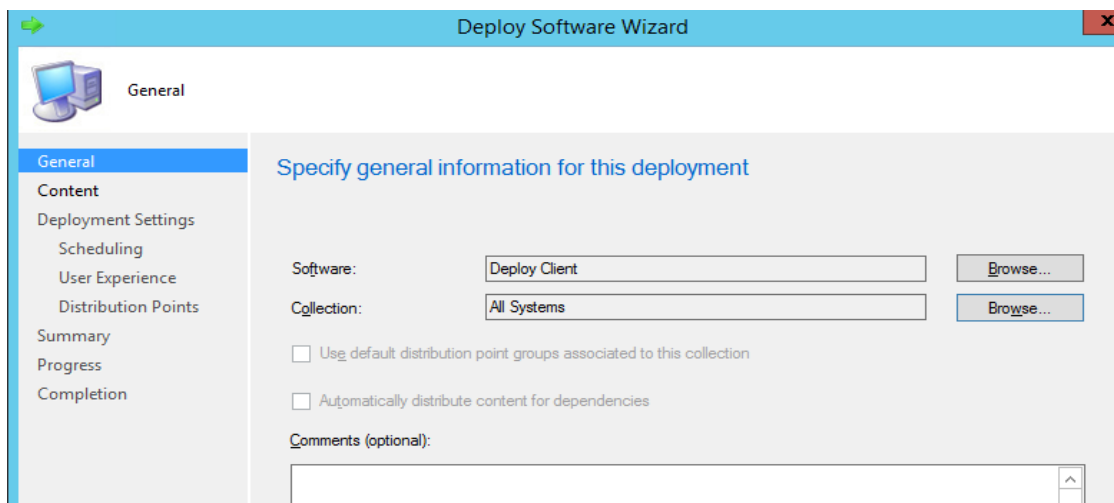


NetBackup Deployment Template User Guide for SCCM

4. In SCCM **Application Management > Packages**, right-click **NetBackup Client Deployment** and select **Deploy**, as follows:

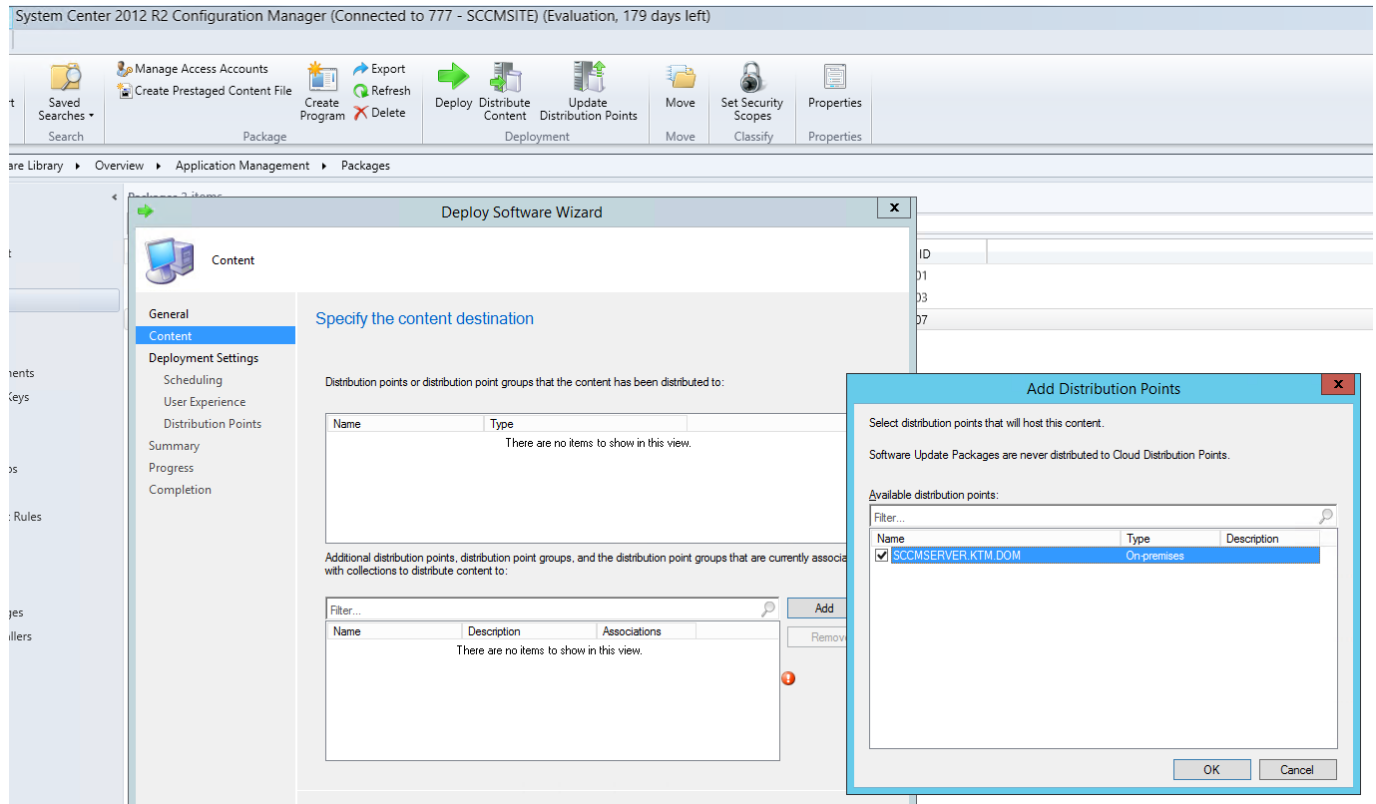


5. The **Deploy Software** wizard launches. On the **General** page, select **Browse** to specify the **Deploy client** software to deploy. For **Collection**, select the collection of servers on which NetBackup clients will be installed.

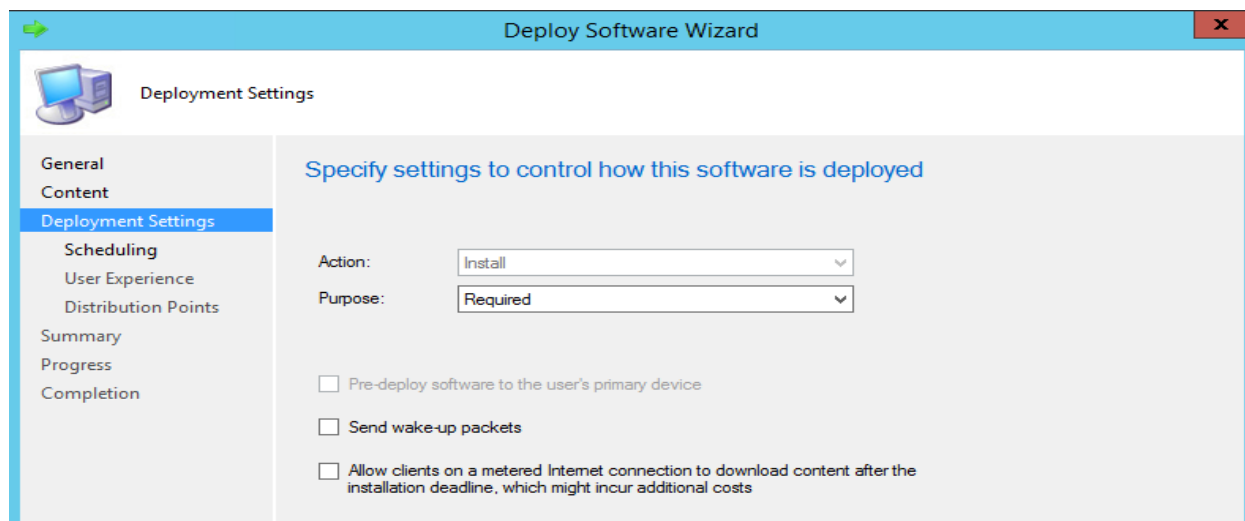


NetBackup Deployment Template User Guide for SCCM

6. On the **Content** page, click **Add** and select the distribution point for your collection, as follows:



7. On the **Deployment Settings** page, select **Install** and **Required**.



NetBackup Deployment Template User Guide for SCCM

8. On the **Scheduling** page, specify when you want the deploy to run and select **Always re-run program**.

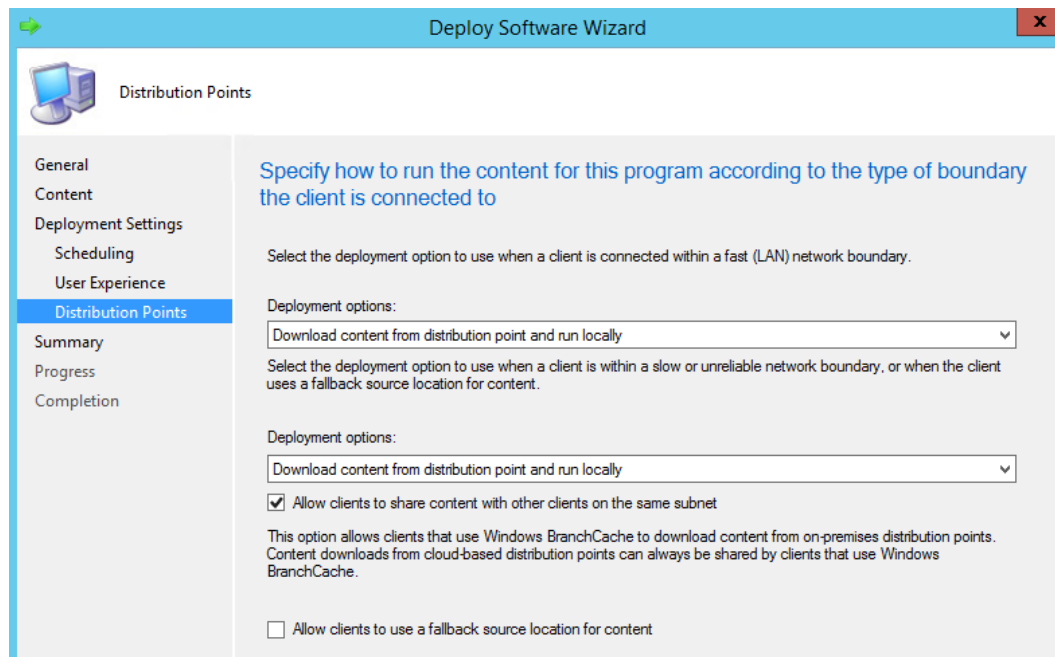
The screenshot shows the 'Deploy Software Wizard' window with the 'Scheduling' tab selected. The left sidebar contains a list of steps: General, Content, Deployment Settings, Scheduling (highlighted), User Experience, Distribution Points, Summary, Progress, and Completion. The main area is titled 'Specify the schedule for this deployment'. It contains a text box explaining that the program will be available as soon as it has been distributed to the content servers unless it is scheduled for a later time. Below this, there are two checked options: 'Schedule when this deployment will become available:' and 'Schedule when this deployment will expire:'. Each option has a date and time picker set to 8/9/2017 2:10 PM and 8/11/2017 2:10 PM respectively, with a 'UTC' checkbox. There is an 'Assignment schedule:' section with 'New...', 'Edit...', and 'Delete' buttons, and a list box containing 'Occurs on 8/10/2017 2:18 PM'. At the bottom, there is a 'Rerun behavior:' dropdown menu set to 'Always rerun program'. Navigation buttons at the bottom include '< Previous', 'Next >', 'Summary', and 'Cancel'.

9. On the **User Experience** page, retain the default settings, as follows:

The screenshot shows the 'Deploy Software Wizard' window with the 'User Experience' tab selected. The left sidebar contains a list of steps: General, Content, Deployment Settings, Scheduling, User Experience (highlighted), Distribution Points, Summary, Progress, and Completion. The main area is titled 'Specify the user experience for the installation of this software on the selected devices'. It contains a 'Notification settings:' section with a checkbox 'Allow users to run the program independently of assignments'. Below this, there is a section 'When the scheduled assignment time is reached, allow the following activities to be performed outside the maintenance window:' with checkboxes for 'Software installation' and 'System restart (if required to complete the installation)'. There is also a section 'Write filter handling for Windows Embedded devices' with a checked checkbox 'Commit changes at deadline or during a maintenance window (requires restarts)'. A note at the bottom states: 'If this option is not selected, content will be applied on the overlay and committed later.'

NetBackup Deployment Template User Guide for SCCM

10. On the **Distribution Points** page, select **Download content from distribution point and run locally** and complete the wizard.



11. Clients will deploy at the schedule time. You can check the execution logs generated at the following location:

`C:\Windows\ccmcache\<latest directory>\Data\<clientname>.txt`

Uninstalling NetBackup clients

Download and package creation for uninstalling NetBackup clients using SCCM are similar to installing and upgrading.

Note: You can skip the procedure to download the files if you have completed it for installing NetBackup clients.

To download files and prepare for the deployment

1. Create a directory named `Data` on the SCCM share. The following example uses a share named `Mastershare`:
`\\Shareserver\Mastershare\Data`
2. Download the `SCCMTemplate.zip` file from the Veritas Services and Operations Readiness Tools (SORT) site (<https://sort.veritas.com/utility/netbackup/deployment>).

Extract the files from the `.zip` file and copy the files to the `Data` directory.

3. Copy the NetBackup client installable files for Windows to the SCCM share, as follows:

`\\FileShareServer\NetBackup_8.1_Win\PC_Clnt`

4. In the SCCM **Assets and compliance** tab, ensure the collection includes all the servers on which NetBackup client needs to be deployed.

NetBackup Deployment Template User Guide for SCCM

To create the SCCM deployment package for uninstallation

1. In the SCCM administration console, open the **Software library** tab.
2. Go to **Application Management > Packages** and select **Create Package**.
3. The **Create Package and Program Wizard** launches. On the **Package** page, provide a name and brief description for the package, then select **This package contains source files** and specify the path of the SCCM share.

The screenshot shows the 'Create Package and Program Wizard' window, specifically the 'Package' page. The left sidebar has a tree view with 'Package' selected. The main area is titled 'Specify information about this package'. It contains several input fields: 'Name' (filled with 'Netbackup client Un-installation'), 'Description' (empty), 'Manufacturer' (empty), 'Language' (empty), and 'Version' (empty). Below these is a checkbox labeled 'This package contains source files' which is checked. Underneath the checkbox is a 'Source folder' field filled with '\\10.210.77.22\Mastershare' and a 'Browse...' button.

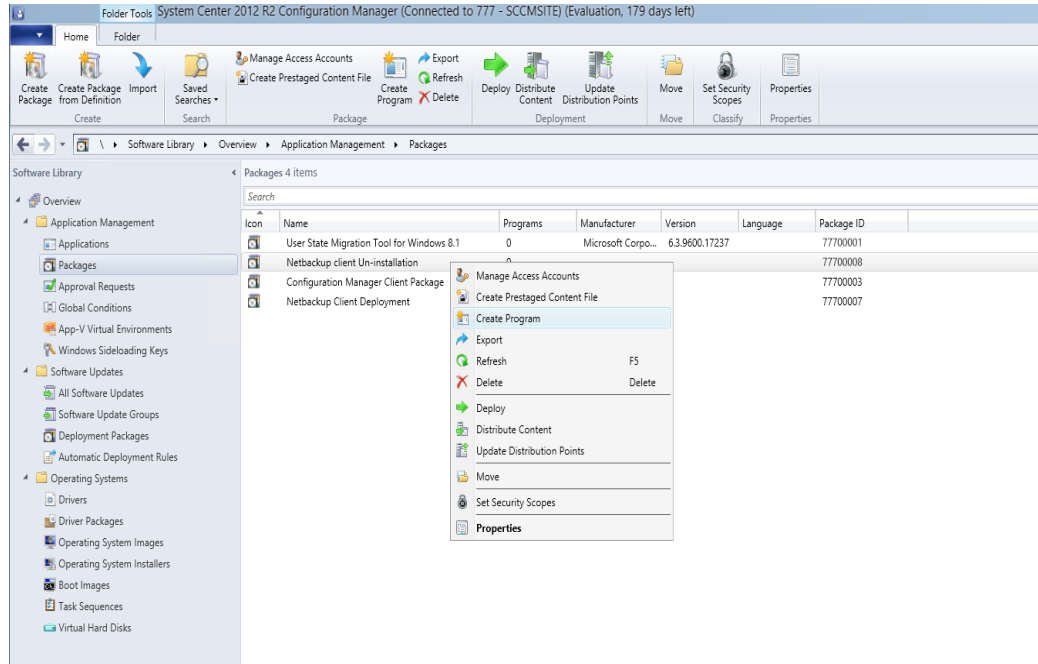
4. On the Program Type page, select **Do not create a program**, then complete the wizard.

The screenshot shows the 'Create Package and Program Wizard' window, specifically the 'Program Type' page. The left sidebar has a tree view with 'Program Type' selected. The main area is titled 'Choose the program type that you want to create'. It contains three radio button options: 'Standard program' (unselected), 'Program for device' (unselected), and 'Do not create a program' (selected). Each option has a brief description below it.

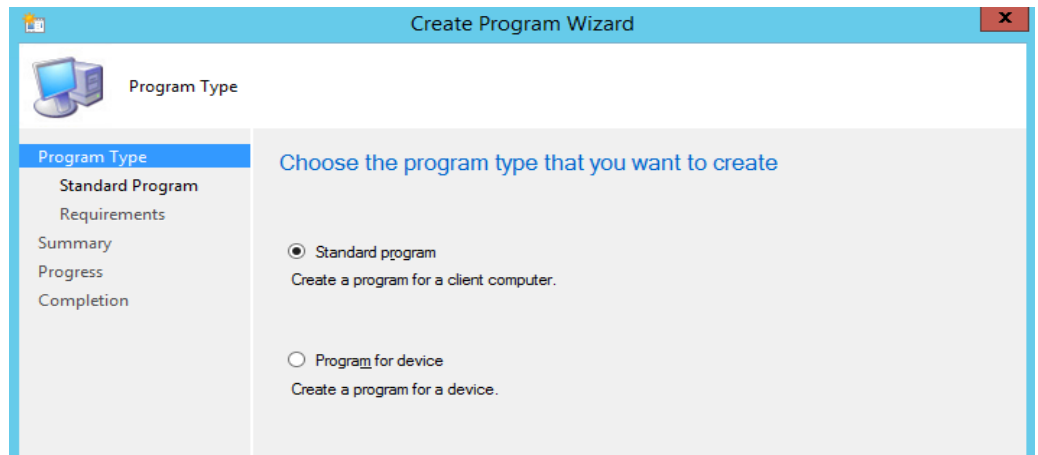
NetBackup Deployment Template User Guide for SCCM

To create the deployment program for the uninstallation

1. In SCCM, right-click the **Netbackup Client Uninstallation** package and select **Create program**.



2. The **Create Program Wizard** launches. Select **Standard program** as the program type.



NetBackup Deployment Template User Guide for SCCM

- On the **Standard Program** screen, specify the name **Uninstall Client** and click **Browse**. Navigate to the `\\Shareserver\Mastershare\Data\PC_Cln\X64` directory. Select `silentuninstall.cmd` and specify that the program can run whether a user is logged on, as follows:

The screenshot shows the 'Create Program Wizard' window with the 'Standard Program' tab selected. The left sidebar lists 'Program Type', 'Standard Program', 'Requirements', 'Summary', 'Progress', and 'Completion'. The main area is titled 'Specify information about this standard program'. It contains the following fields and options:

- Name:** Uninstall client
- Command line:** Data\PC_Cln\X64\silentuninstall.cmd (with a 'Browse...' button)
- Startup folder:** (empty)
- Run:** Normal (dropdown)
- Program can run:** Whether or not a user is logged on (dropdown)
- Run mode:** Run with administrative rights (dropdown)
- ☐ Allow users to view and interact with the program installation
- Drive mode:** Runs with UNC name (dropdown)
- ☐ Reconnect to distribution point at log on

At the bottom are buttons for '< Previous', 'Next >', 'Summary', and 'Cancel'.

- On the **Requirements** page, select **This program can run on any platform**, and complete the wizard.

The screenshot shows the 'Create Program Wizard' window with the 'Requirements' tab selected. The left sidebar lists 'Program Type', 'Standard Program', 'Requirements', 'Summary', 'Progress', and 'Completion'. The main area is titled 'Specify the requirements for this standard program'. It contains the following fields and options:

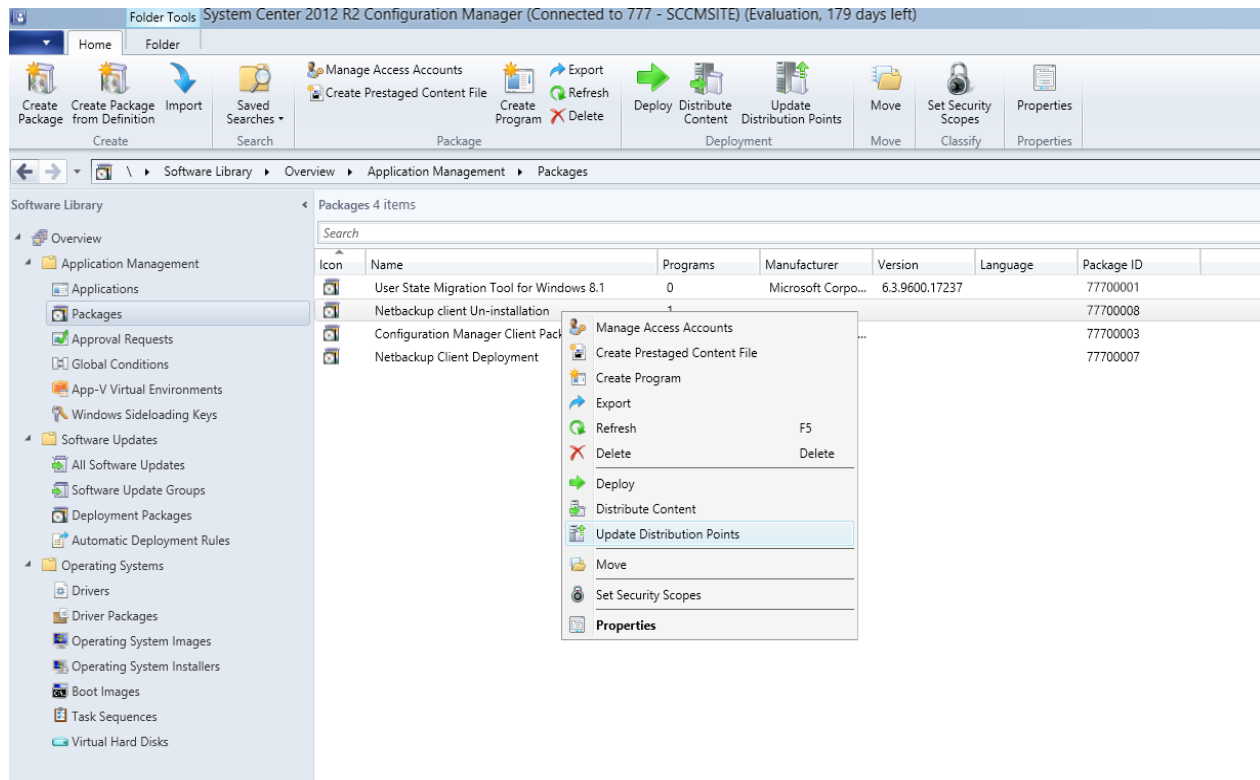
- ☐ Run another program first
 - Package:** (empty)
 - Program:** (dropdown)
- ☐ Always run this program first
- Platform requirements**
 - ☒ This program can run on any platform
 - ☐ This program can run only on specified platforms
 - ☐ All Windows RT
 - ☐ All Windows RT 8.1
 - ☐ All Windows 7 (64-bit)
 - ☐ All Windows 8 (64-bit)
 - ☐ All Windows 8.1 (64-bit)
- Estimated disk space:** Unknown (dropdown) MB (dropdown)
- Maximum allowed run time (minutes):** 120 (dropdown)

At the bottom are buttons for '< Previous', 'Next >', 'Summary', and 'Cancel'.

NetBackup Deployment Template User Guide for SCCM

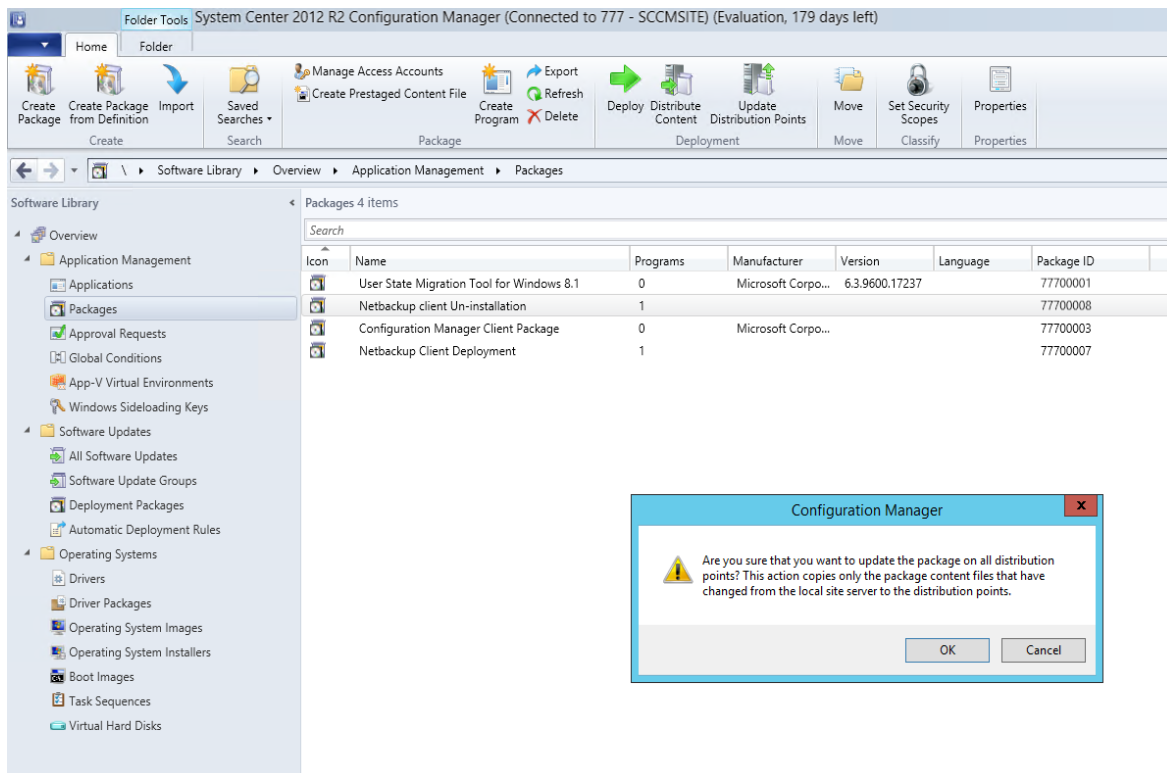
To uninstall the client

- Before starting the uninstall, ensure that the following prerequisites are in place:
 - The NetBackup client software installation package is present in the **Data** on the SCCM share, as in the following example: \\Shareserver\Mastershare\Data
 - The collection containing the servers is present in SCCM under the **Assets and compliance** tab
- In SCCM **Application Management > Packages**, right-click **NetBackup Client Un-installation** and select **Update Distribution Points**, as follows:

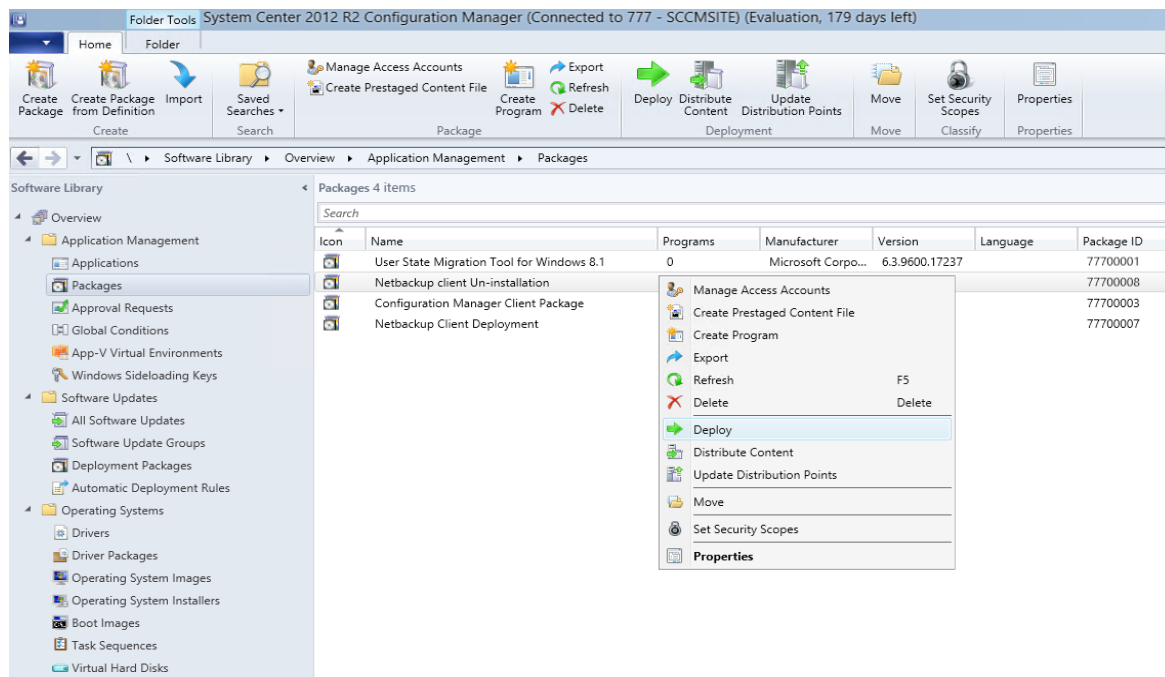


NetBackup Deployment Template User Guide for SCCM

3. In the **Configuration Manager** dialog, click **OK**.

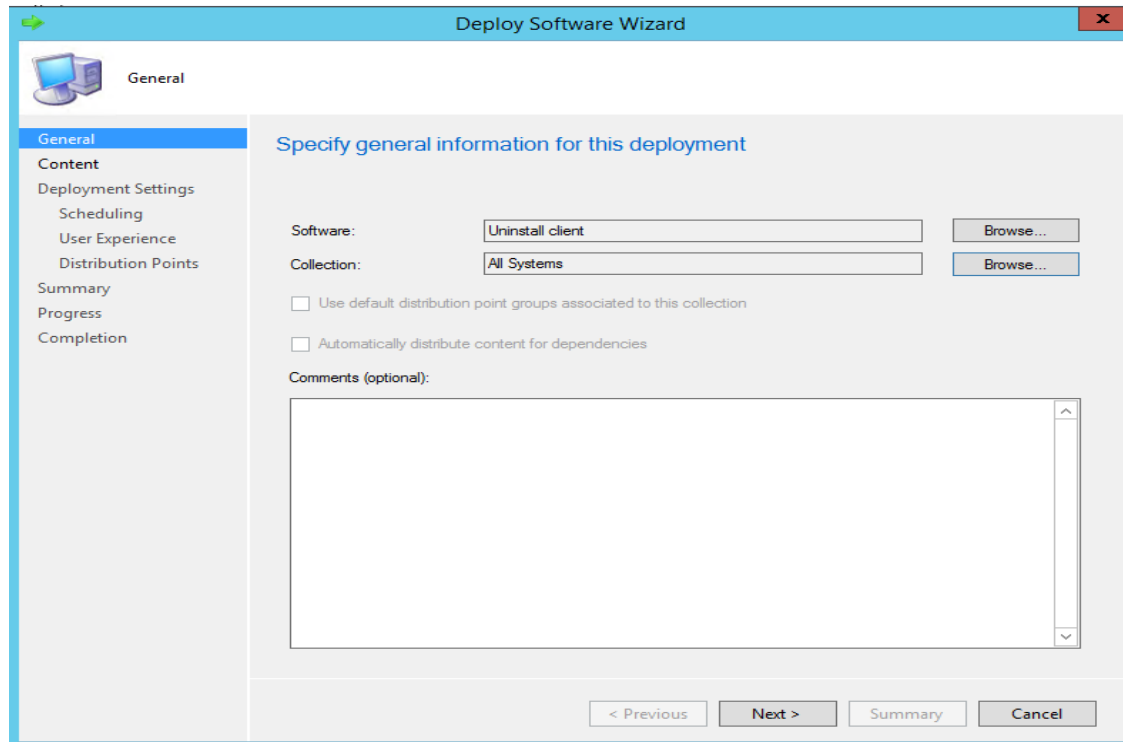


4. In SCCM **Application Management > Packages**, right-click **NetBackup Client Un-Installation** and select **Deploy**, as follows

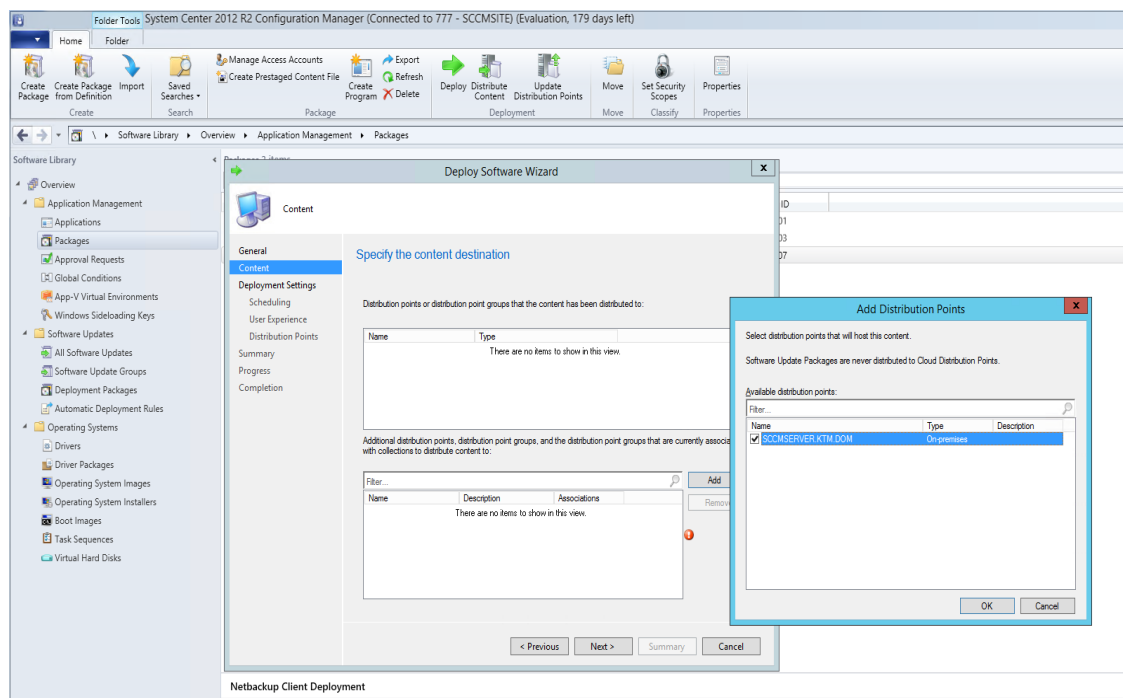


NetBackup Deployment Template User Guide for SCCM

5. The **Deploy Software** wizard launches. On the **General** page, select **Browse** to specify the **Uninstall client** software to deploy. For Collection, select the collection of servers on which NetBackup client will be installed.



6. On the **Content** page, click **Add** and select the distribution point for your collection, as follows:



NetBackup Deployment Template User Guide for SCCM

7. On the **Deployment Settings** page, select **Install** and **Required**.

The screenshot shows the 'Deploy Software Wizard' window with the 'Deployment Settings' tab selected. The left sidebar contains a tree view with 'General', 'Content', 'Deployment Settings', 'Scheduling', 'User Experience', 'Distribution Points', 'Summary', 'Progress', and 'Completion'. The main area is titled 'Specify settings to control how this software is deployed'. It features two dropdown menus: 'Action' set to 'Install' and 'Purpose' set to 'Required'. Below these are three unchecked checkboxes: 'Pre-deploy software to the user's primary device', 'Send wake-up packets', and 'Allow clients on a metered Internet connection to download content after the installation deadline, which might incur additional costs'. At the bottom are buttons for '< Previous', 'Next >', 'Summary', and 'Cancel'.

8. On the **Scheduling** page, specify when you want uninstall to run and select **Always re-run program**.

The screenshot shows the 'Deploy Software Wizard' window with the 'Scheduling' tab selected. The left sidebar is the same as in the previous screenshot. The main area is titled 'Specify the schedule for this deployment'. It includes a text block: 'This program will be available as soon as it has been distributed to the content servers unless it is scheduled for a later time below. For required applications, specify the assignment schedule.' There are two checked checkboxes: 'Schedule when this deployment will become available:' and 'Schedule when this deployment will expire:'. The first checkbox has a date/time picker set to '8/ 9/2017' at '2:10 PM' and a 'UTC' checkbox. The second checkbox has a date/time picker set to '8/11/2017' at '2:10 PM' and a 'UTC' checkbox. Below these is an 'Assignment schedule:' section with 'New...', 'Edit...', and 'Delete' buttons. A list box shows 'Occurs on 8/10/2017 2:18 PM'. At the bottom is a 'Rerun behavior:' dropdown menu set to 'Always rerun program'. Navigation buttons at the bottom are '< Previous', 'Next >', 'Summary', and 'Cancel'.

NetBackup Deployment Template User Guide for SCCM

9. On the **User Experience** page, retain the default settings, as follows:

The screenshot shows the 'Deploy Software Wizard' window with the 'User Experience' tab selected. The left sidebar lists the steps: General, Content, Deployment Settings, Scheduling, User Experience (highlighted), Distribution Points, Summary, Progress, and Completion. The main area is titled 'Specify the user experience for the installation of this software on the selected devices'. It contains the following settings:

- Notification settings:**
 - ☐ Allow users to run the program independently of assignments
- When the scheduled assignment time is reached, allow the following activities to be performed outside the maintenance window:**
 - ☐ Software installation
 - ☐ System restart (if required to complete the installation)
- Write filter handling for Windows Embedded devices**
 - ☒ Commit changes at deadline or during a maintenance window (requires restarts)
If this option is not selected, content will be applied on the overlay and committed later.

At the bottom, there are four buttons: '< Previous', 'Next >', 'Summary', and 'Cancel'.

10. On the **Distribution Points** page, select **Download content from distribution point and run locally** and complete the wizard. Clients will uninstall at the schedule time.

The screenshot shows the 'Deploy Software Wizard' window with the 'Distribution Points' tab selected. The left sidebar lists the steps: General, Content, Deployment Settings, Scheduling, User Experience, Distribution Points (highlighted), Summary, Progress, and Completion. The main area is titled 'Specify how to run the content for this program according to the type of boundary the client is connected to'. It contains the following settings:

- Select the deployment option to use when a client is connected within a fast (LAN) network boundary.**
- Deployment options:**
 - Download content from distribution point and run locally (selected in the dropdown)
- Select the deployment option to use when a client is within a slow or unreliable network boundary, or when the client uses a fallback source location for content.**
- Deployment options:**
 - Download content from distribution point and run locally (selected in the dropdown)
- ☒ Allow clients to share content with other clients on the same subnet
This option allows clients that use Windows BranchCache to download content from on-premises distribution points. Content downloads from cloud-based distribution points can always be shared by clients that use Windows BranchCache.
- ☐ Allow clients to use a fallback source location for content