

## Creating an Application from an EXE

In this lecture, we are going to create an application based upon an EXE. This one is going to be a little bit **more complex** and **time consuming** just because we can't **automatically prefill** a lot of that detection information that the MSI automatically filled in for us. We will be using Chrome.exe

From the Console Click the software Library, Application Management, then right-click on Applications and click create Application.

- From the Create Application Wizard, the **General** screen, click **Manually specify the application information**, then click next.
- From **General Information**, fill out the Meta Data. You can go ahead and stop the video while you fill out the name, publisher, and software version. Now click next
- Now for **Application Catalog**, click **edit**, and let's choose a User Category. You can click add and create your own categories if you like. These categories will appear in the clients Software Center and will help you organize your applications. I'll go ahead and choose **browser** then click ok.
- Now I can fill in some of the details. Browsing out to the Chrome Icon, then click open then click next
- Now lets create our **Deployment Type**, click **Add**, from the **General Screen**, click the down arrow and **notice there is no EXE**, so we need to choose a **script installer**. Then click next.
- From **General Information**, **Now type** the Deployment Type **Name – Chrome 83.106 EXE -x32**, then click next.
- **From Content**, content location, click browse, then go out to the application location, then click select folder. Then type in the Server Name.
- **From specify the installation command**, click browse, then browse to the install program and double click the exe. So, the **installation program is chromesetup.exe**
- Now for an EXE, we will need to find out what the **silent command line is**. A silent install enables the app installation without the user being aware of the installation.
- There are a number of ways to get the command line for the **Install and uninstall commands** you could try the following methods.
- From the vender. That means you could use google search and type something like silent Install and uninstall command for google chrome.
- Or you could try a blog such as this. I found the **install switches from this web site**.
- <https://superuser.com/questions/337210/how-can-i-silently-install-google-chrome>

**Also, I found help with the uninstall switches from here**

<https://liammatthewsit.com/2018/03/20/sccm-managing-google-chrome/>

- In this case, add the following switches. /silent /install.

## Finding the Uninstall Command

- Here is a chart to help you find the uninstall command.
- The uninstall command can be found in the registry in one of two places

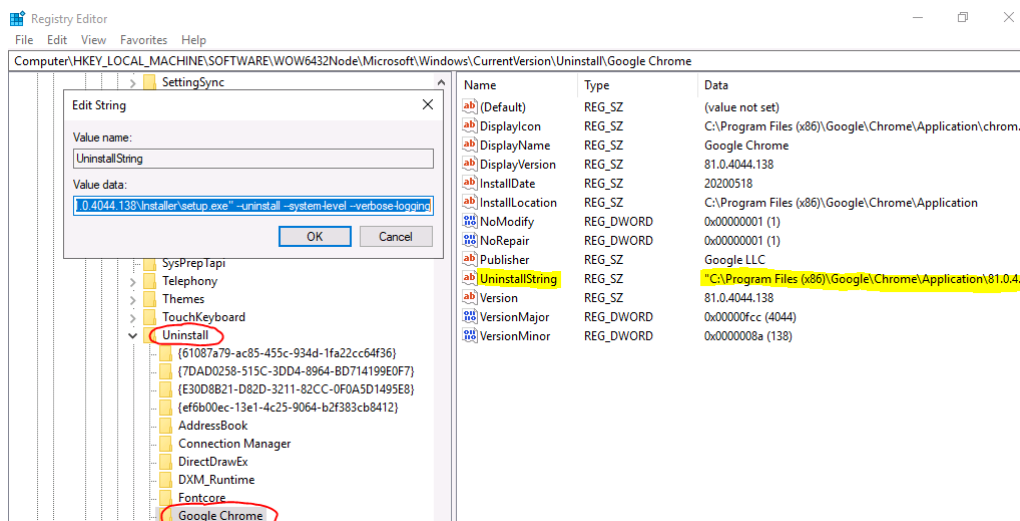
32 bit App.	64 bit O/S	HKEY_LOCAL_MACHINE\Software\Wow6432Node\Microsoft\Windows\CurrentVersion\Uninstall
32 bit App.	32 bit O/S	HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Uninstall – <b>(Main Key)</b>
64 bit App.	64 bit O/S	HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Uninstall

- If your deploying a 32-bit app on a 64 bit O/S, you can look here for the uninstall command.
- If you have a 32-bit app on a 32 bit O/S, you can look here (Wow6432Node)
- If you have a 64-bit app on a 64 bit O/S, you can look here (Main Key)
- Because the chrome installer is a 32 bit installer on a 64 bit O/S, the uninstall command can be found in the **wow6432 Node**.

## Let's Open Regedit

right-click the **Start** button, then click **Run**. Now type **regedit** in the **Open** box then press return.

- From regedit Browse to  
HKEY\_LOCAL\_MACHINE\Software\Wow6432Node\Microsoft\Windows\CurrentVersion\Uninstall\Google Chrome
- Then double click the uninstall string, copy and paste that string into Notepad.



Now from notepad, I'll go ahead and paste in the **uninstall string**. Which is:

```
"C:\Program Files (x86)\Google\Chrome\Application\83.0.4103.106\Installer\setup.exe" --uninstall --system-level --verbose-logging --force-uninstall
```

Notice that I used the uninstall system level, and the force-uninstall switches from that blog that I showed you earlier. **Then click next**

Now for the **Detection Method**, this is how Configuration Manager determines whether the Application we are installing is already on the machine. If you recall with the MSI, it read the product code to determine if the Application was already installed. But with an exe, we have to manually find and input the **version number**. We can find this information in the registry.

- Click **Add Clause**
- From **Setting type** choose **Registry**
- On this server, I already have google chrome installed so I can check the registry for this information.
- From Hive, click browse. Let's browse out to the:  
**HKEY\_LOCAL\_MACHINE\Software\Wow6432Node\Microsoft\Windows\CurrentVersion\Uninstall\Google Chrome\**
- We want to click on DisplayVersion, and we want the **value data** 83.0.4103.106 and click ok
- **And if the Key put the WOW6432** in there, we are going to want to remove that, and we are going to want to check the box, This registry key is associated with a 32-bit Application on a 64 bit O/S. That means if it's a 32bit application on a 64 bit O/S. Configuration manager will automatically append that wow6432 Node. If the Application is 32 bit on a 32 bit, O/S Configuration Manager will look in the Main hive for the key.
- For **Data Type** – Select **Version**
- Then click – **This registry setting** must satisfy the following rule to indicate the presence of this Application.
- Then for Operator, we want to select **Greater than or equal to**
- **Value** – In this case should be 83.0.4103.106 – This is the version that will get installed, Click ok, **then click Next**
- **For User Experience** – Verify the following:
  - Installation behavior** – Install for System
  - Logon requirement** – Whether or not a user is logged on
  - Installation program visibility** – Normal

**Max allowed run time** – 15 minutes

**Estimated Installation time** – 2 minutes

**Now click next**

- **For Requirements** – We want this to install on 32 or 64-bit Operating System. We can leave this blank, Or if you wanted to, you could setup a rule so that you could install to certain Operating Systems. But in this case, we will click next.
- **Dependencies** – There will be no dependencies
- **Then click next, then next again**, then click close. Click Next, then Next again then click close
- **Now right click on the Application, then click properties.**
- **From the General tab** – Click Allow this Application to be installed from a task sequence. Run through all the tabs to verify that everything is setup correctly. Then click, ok.
- **Now before I deploy this to a collection**, normally, I like to **test** my Install and uninstall command lines. So, from a test computer, open an admin level command prompt and paste the install command and press return.
- Open the task manager to verify that the chrome install is running and wait until setup completes. Check the desktop, and we see that chrome installed successfully.
- Now go back to the command prompt and paste the uninstall command. In a minute, the Chrome Icon disappears from the desktop.
- Click the search Icon and type run, now type appwiz.cpl, and we see that Chrome is no longer installed.

**Now let's create our collection:**

**Creating our Collection**

- From Assets and Compliance, right-click on user collections, then click create user collection. From name, type Windows 10 Users.
- Then click browse, then click All Users, then click ok. Then click next.
- Click Add Rule, then click Direct Rule, then click next. Then for value, add the % variable, then click next.
- Then click one of the Users, in this case, I will click Administrator. click next, click next again, then click close

### Now let's deploy the Application to the Windows 10 Users Collection

- From the Console, **right-click** on the **Application** and choose **deploy**. Then for Collection click Browse, then select **Windows 10 Users**, click **Ok**, then click **next**
- From **Content**, click Add and click Distribution Point, then deploy to your distribution point **in this case, choose SASCCM01.ServerAcademy.com**. Then click ok, then click next.
- From **Deployment Settings**, choose **Available**. We will take the defaults.
- You could require an approval for that Application by enabling an Administrator must approve a request for this Application on the device. The user would have to request the approval for the deployment, and you would get a request in the Console, or you could set it so that you could receive an email and you could approve the installation from the email. Then click **next**.
- Scheduling – Leave the defaults. Then click **Next**
- For User Experience- Select Display in Software Center, and only show notifications for computer restarts. Click **Next**
- We will choose the Defaults for Alerts, **click next , then next again, then click close**.
- From the client computer, open the software center, and after a few minutes, you should see the Application ready for Install.