

Google IT Support Certificate: Course 3: Operating Systems and You

Week 3: Package and Software Management

Quiz: Software Packaging and File Archiving on Windows

Introduction

In this lab, you'll learn how to install and remove software in the Windows GUI and CLI, and work with zipped files. You'll install a text editor, called Atom, and extract/un-extract .tar files. You'll also use *Chocolatey* to install and uninstall programs on Windows.

What you'll do

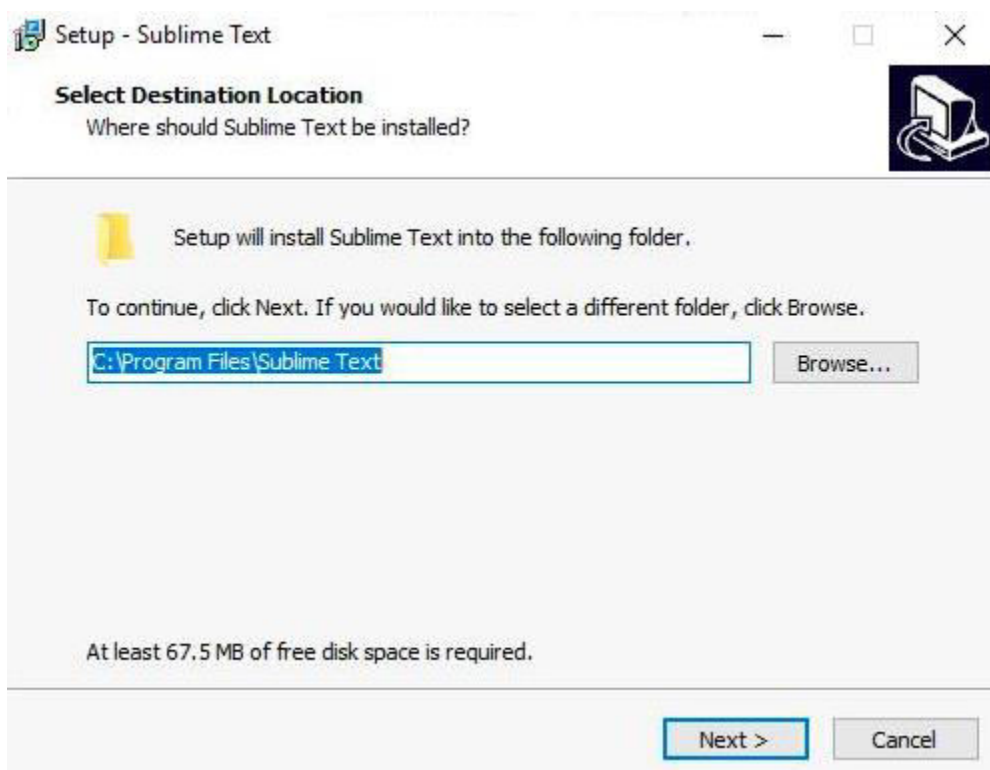
You have a bunch of tasks for this lab. First, you'll install and remove software using the Windows graphical user-interface (GUI). Second, you'll remove and install software using the Windows Command Line Interface (CLI), known as Powershell. Third, you'll extract and compress files into a .zip archive in the GUI and CLI. Last but not least, you'll use Chocolatey to manage software within the Powershell terminal.

- Install Atom using Windows GUI
- Extract files using 7-Zip and Powershell
- Install VLC using Chocolatey
- Uninstall GIMP using Chocolatey

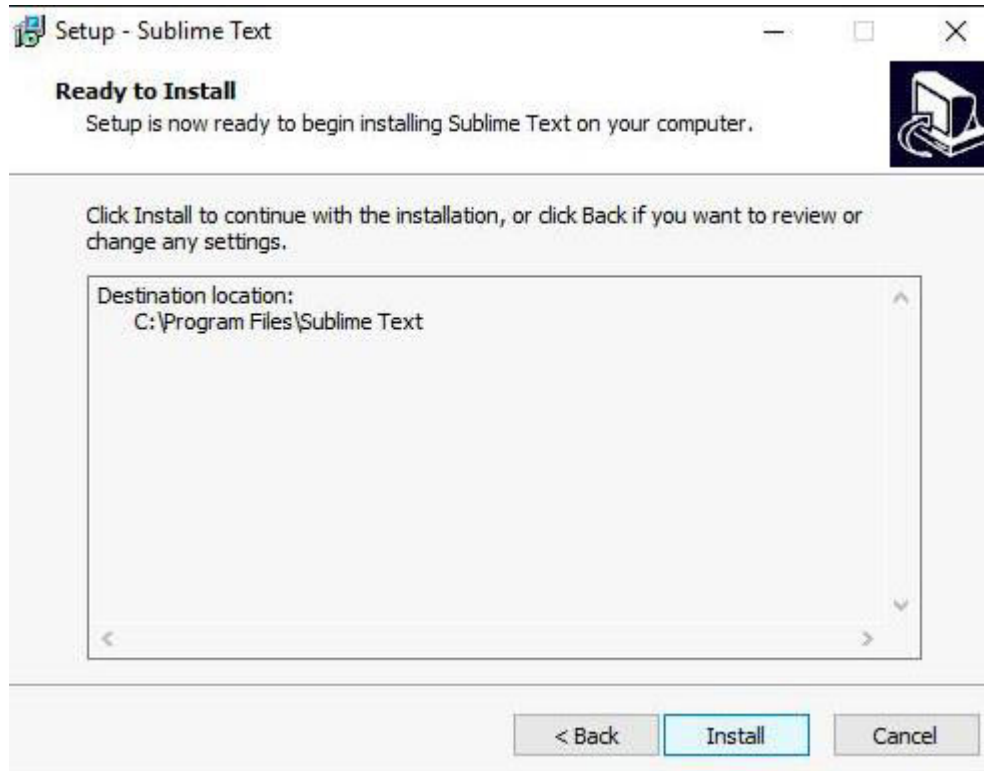
Install and uninstall software using Windows GUI

Installing Sublime Text

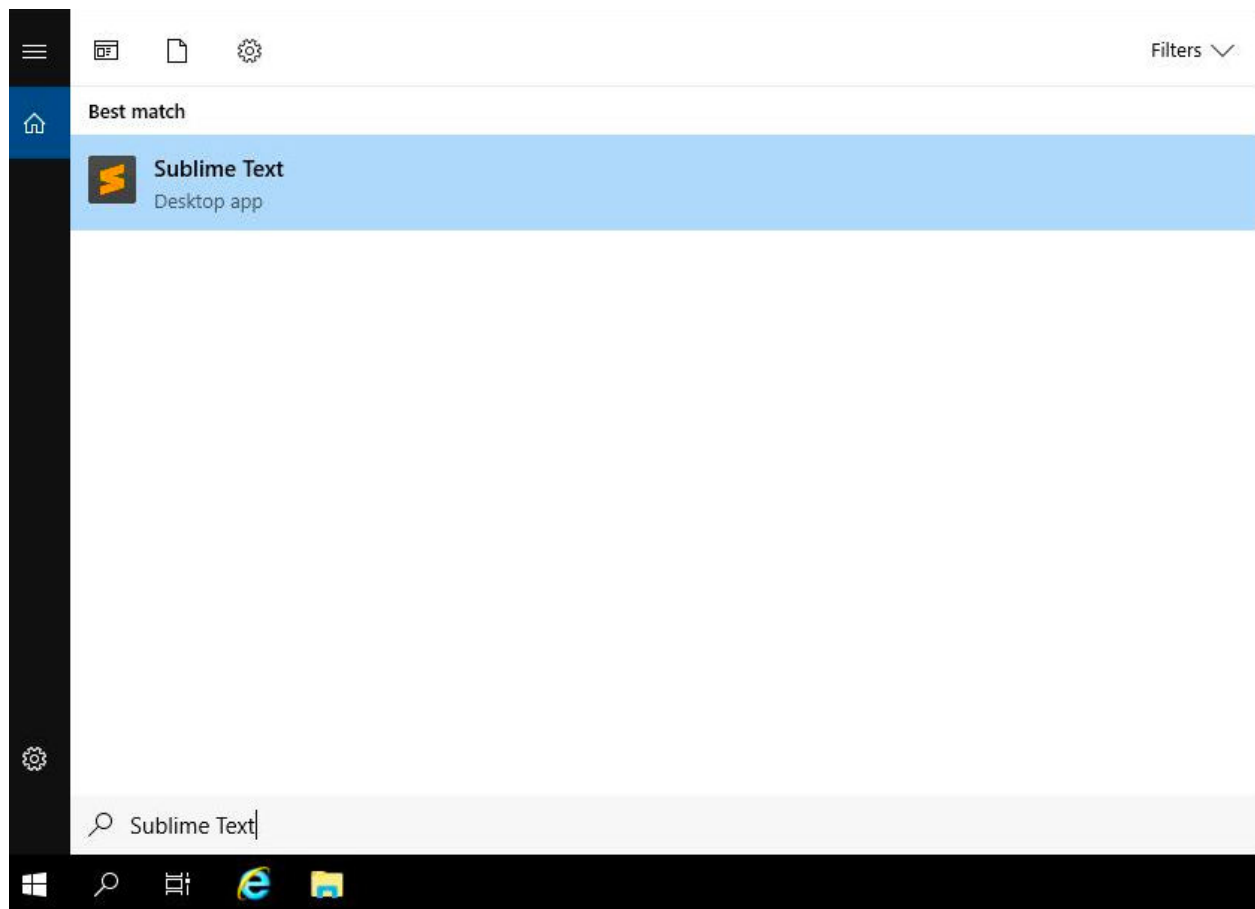
First, you'll install the Sublime Text editor. Using Google Chrome, visit <https://www.sublimetext.com> to download the latest version of Sublime Text. Once you have downloaded the file, open your "Downloads" folder under **C:\Users\qwiklabs\Downloads**. You should see the installer, called "sublime_text_build_4126_x64_setup.exe". Double click the executable and the process should begin.



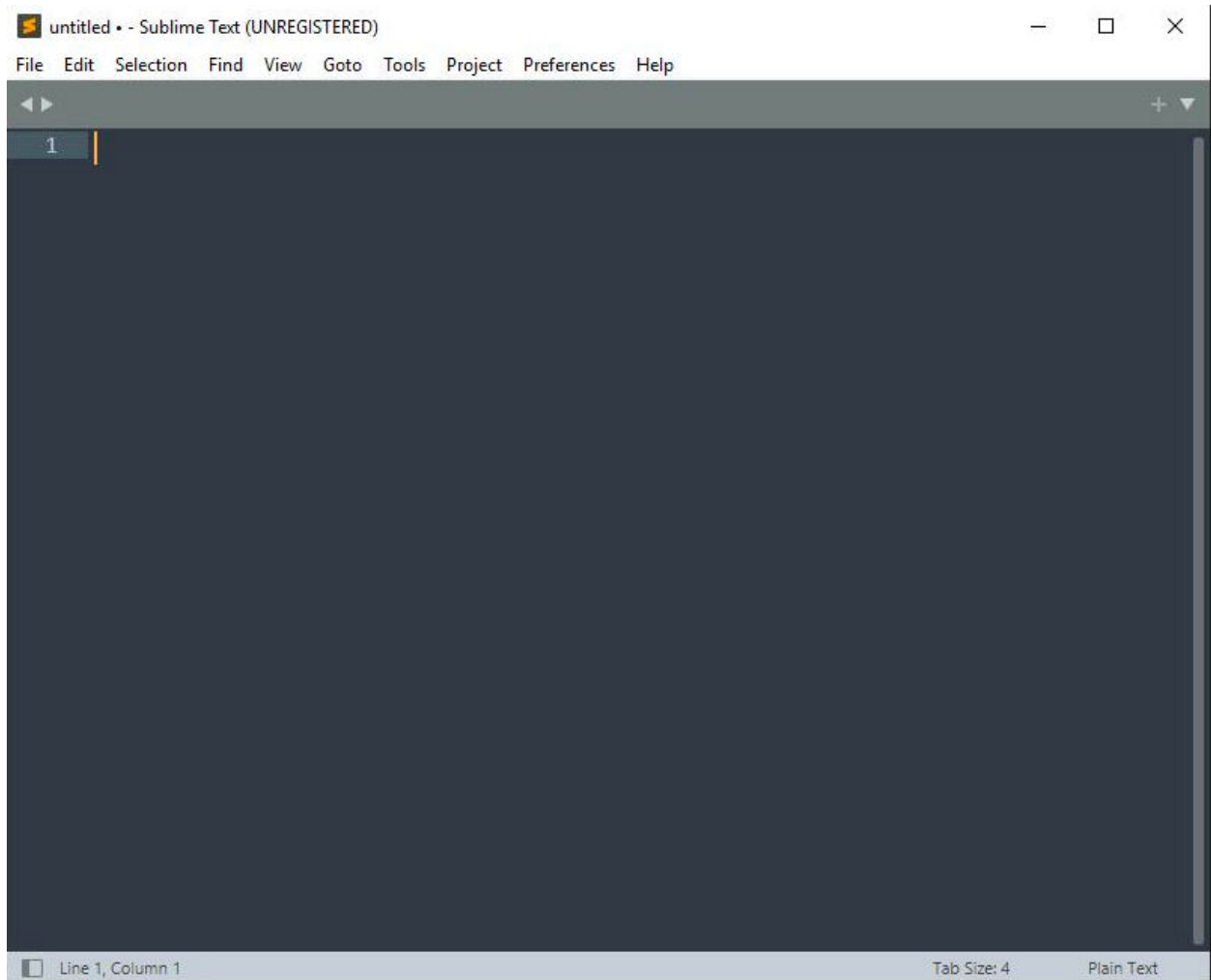
Leave the folder location as default, just click on the **Next** button to proceed with the installation.



Now, click on the **Install** button. When the installation is finished, click the Search icon in the bottom-left of the taskbar, and start typing “Sublime Text” to search (as shown below).



This will bring up the **Sublime Text** editor.



You won't need to use Sublime Text during this lab, so feel free to close the program. Later tater!

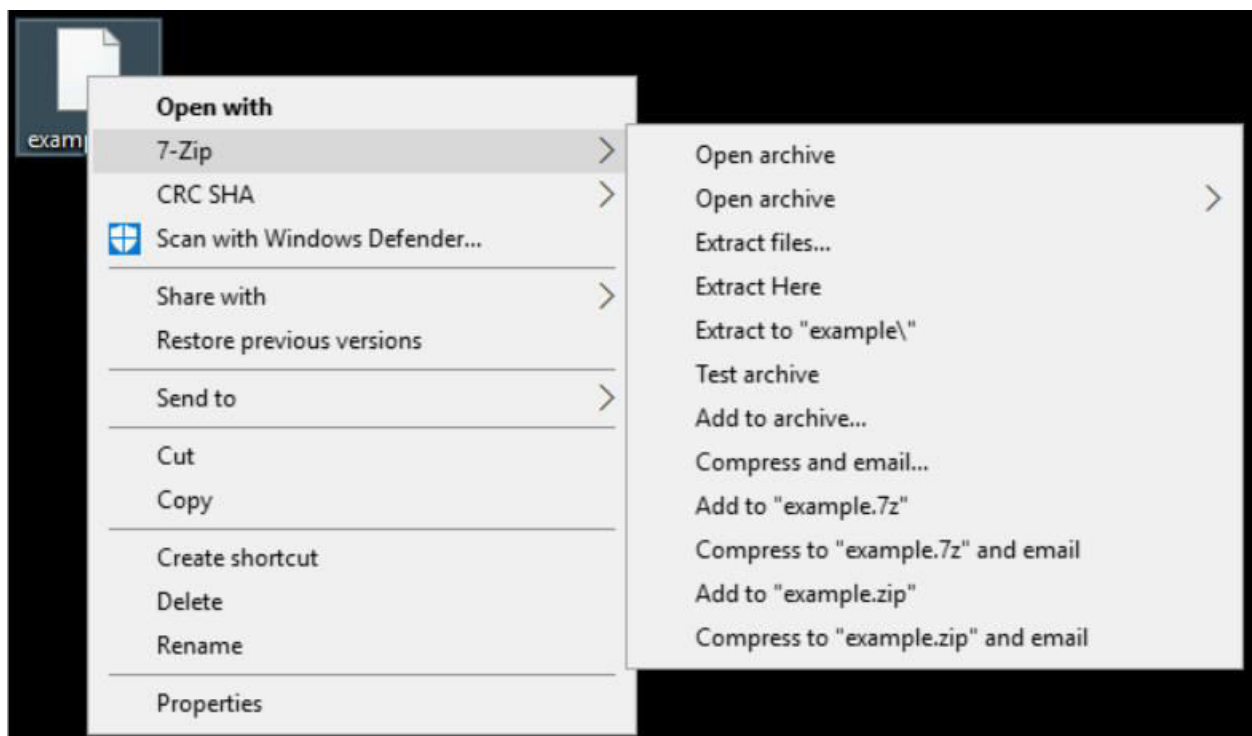
Click Check my progress to verify the objective.

Sublime Text

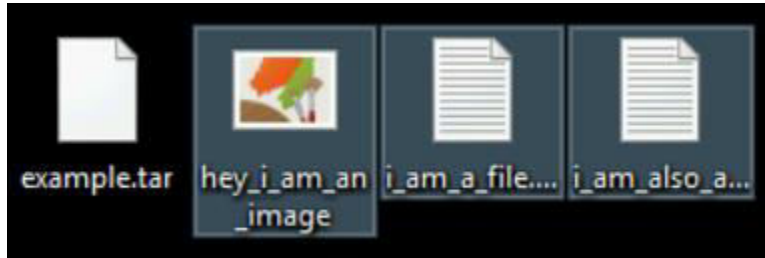
Check my progress

Extracting using 7-Zip

7-Zip is a super useful program for working with archived or zipped files, and it's already been installed on your system. Using File Explorer navigate to "**C:\Users\Qwiklab\Downloads**". This folder contains a .tar archive called "example.tar". You don't have permissions to extract files in this .tar file's current folder, so click-and-drag the file to the Desktop. After moving the file, you'll be prompted to confirm the move; click "Continue" to finish the move. Then, you can use it to extract the contents of the archive by right-clicking "example.tar" (now on the Desktop), hovering over "7-Zip", and clicking "Extract Here":



Afterwards, you'll see the contents of the .tar file on the Desktop, alongside the archive:






Click Check my progress to verify the objective.

Extract with 7-zip

Check my progress

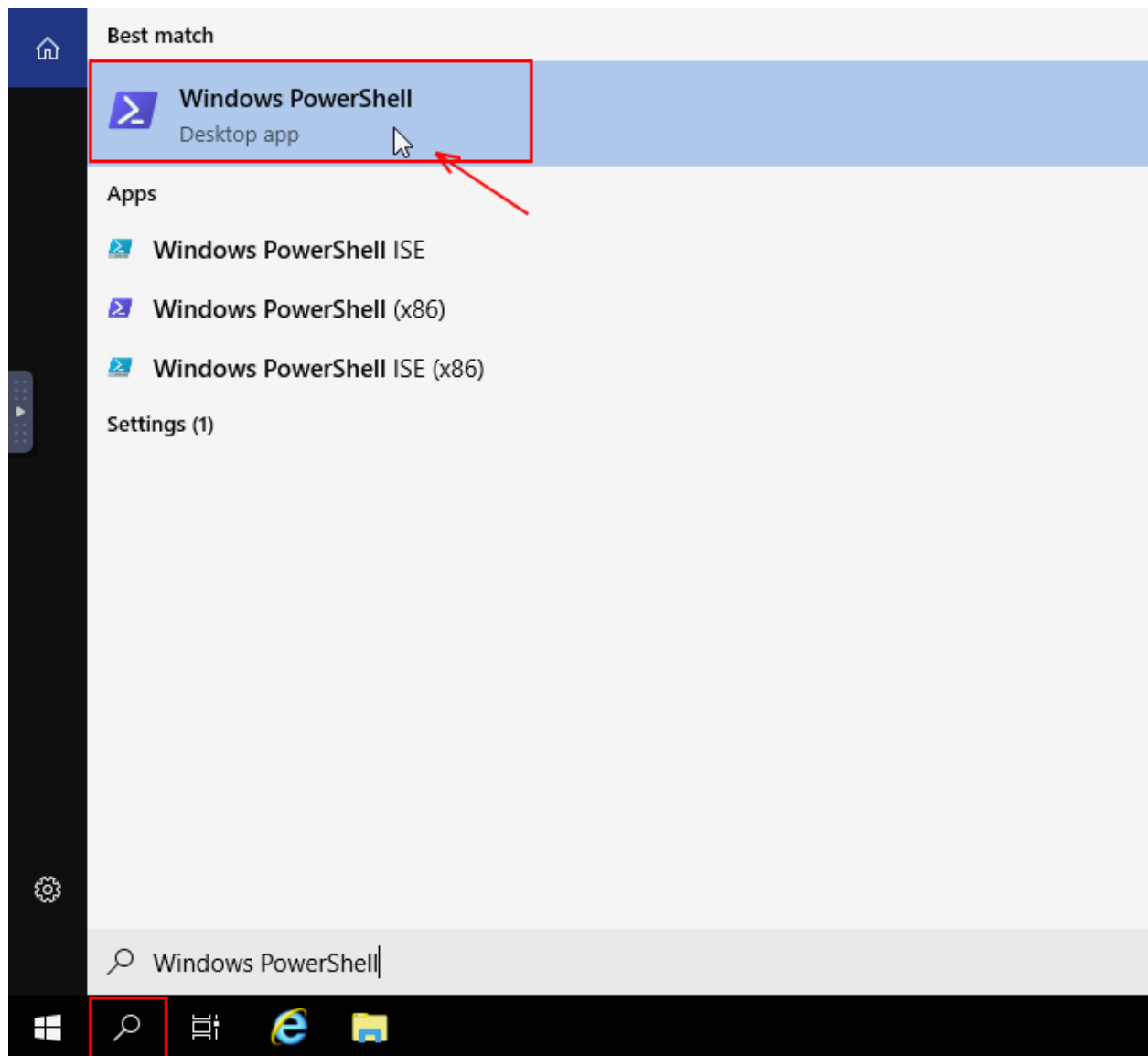
Archiving files

Now you'll perform the other half of the process, bundling multiple files into a .zip archive. Navigate to "**C:\Users\Qwiklab\Documents**" and find the three files named, "Earth", "Mercury", and "Venus":

Name	Date modified	Type
 Earth	10/17/2017 3:11 AM	File
 Mercury	10/17/2017 3:11 AM	File
 Venus	10/17/2017 3:11 AM	File

Archiving files with Powershell

Now you'll build multiple files into a .zip archive using Powershell. Open Powershell and navigate to this folder. (Make sure you have administrative privileges enabled!). So, search for [Windows Powershell](#), right-click it, and select **"Run as Administrator"**.



Now, Use the following command:

```
cd C:\Users\Qwiklab\Documents\
```

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to navigate to the "Documents" folder. Once you're there, you can create a .zip archive (called Planets.zip) using this command:

```
Compress-Archive -Path Earth, Mercury, Venus Planets.zip
```

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Click Check my progress to verify the objective.

Archiving Files with PowerShell

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Install and uninstall software using Windows CLI

Installing VLC

There are alternatives to manually downloading and running installers when you need to install or manage programs on Windows. To install

or remove programs, you need administrative privileges. So, open `Windows PowerShell` by searching for it in the Windows start menu, then right-click it and select "Run as Administrator".

In the `Windows PowerShell` terminal, enter the following commands to download and install VLC media player.

```
$VLC_URL = "https://get.videolan.org/vlc/last/win64/"
```

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```
$GET_HTML = Invoke-WebRequest $VLC_URL
```

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```
$FILE = $GET_HTML.Links | Select-Object  
@{Label='href';Expression=@{$true=$_ .href}}[$_ .href.EndsWith('win64.exe')]  
}} | Select-Object -ExpandProperty href
```

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```
$URL = ($VLC_URL+$FILE)
```

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```
$DOWNLOAD_DIR = "C:\users\qwiklabs\Downloads\"
```

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```
$OUTPUT_FILE = ($DOWNLOAD_DIR+$FILE)
```

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```
(new-object System.Net.WebClient).DownloadFile($URL, $OUTPUT_FILE)
```

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```
cmd.exe /c $OUTPUT_FILE /S
```

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Once the installation process is successfully completed, verify that VLC has successfully been installed with the following command:

```
Get-Package -Name *vlc*
```

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Name	Version	Source	ProviderName
----	-----	-----	-----
VLC media player	3.0.16		Programs

Click Check my progress to verify the objective.

VLC

Check my progress

Uninstalling GIMP

You can use `Windows PowerShell` to uninstall programs. If you've closed your Powershell window, reopen it again by searching for it in the Start Menu, then right-clicking it and selecting "Run as Administrator".

You can uninstall GIMP, a photo editor, using this command:

```
cmd.exe /c "C:\Program Files\GIMP 2\uninst\unins000.exe" /VERYSILENT  
/NORESTART
```

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Once the process finishes, GIMP will no longer be available on your system. You can verify this with the following command and notice that GIMP is not listed:

Get-Package

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Click Check my progress to verify the objective.

GIMP

Check my progress

Conclusion

Congrats! You've successfully installed and uninstalled programs on Windows using both the GUI and CLI tools, as well as archived and unarchived .tar files.