

Software Packaging and File Archiving on Windows

1 hour Free

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.

Head's up: You'll experience a delay as the labs initially load (particularly for Windows labs). So, please **wait a couple of minutes for the labs to load**. The grade is calculated when the lab is complete, so be sure to hit "**End Lab**" when you're done!

You'll have 60 minutes to complete this lab.

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.

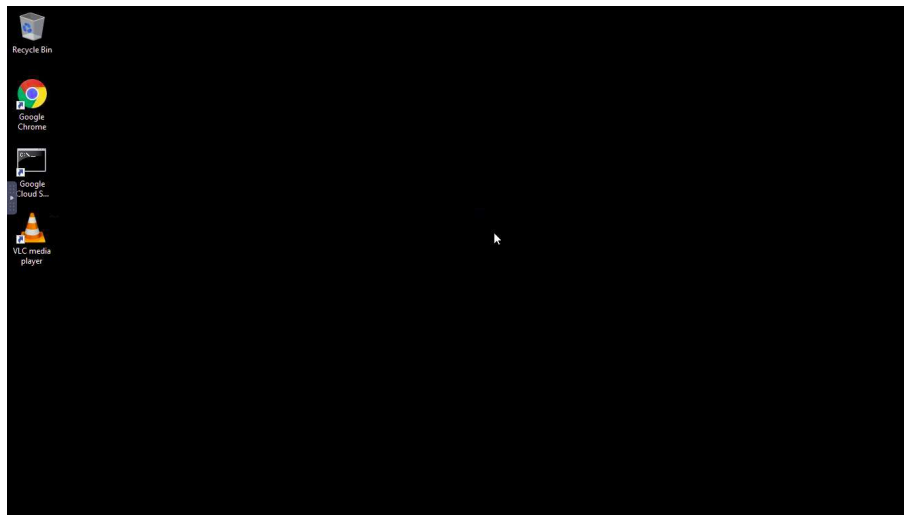
- Install Atom using Windows GUI
- Extract files using 7-Zip and Powershell
- Install VLC using Chocolatey
- Uninstall GIMP using Chocolatey

Start the lab

You'll need to start the lab before you can access the materials. To do this, click the green "Start Lab" button at the top of the screen.



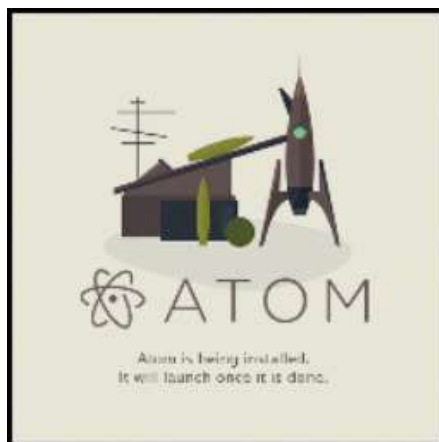
After you click the "Start Lab" button, you will see a visual interface for Windows OS, where you will be performing further steps in the lab. You should have a visual interface for Windows that looks like this:



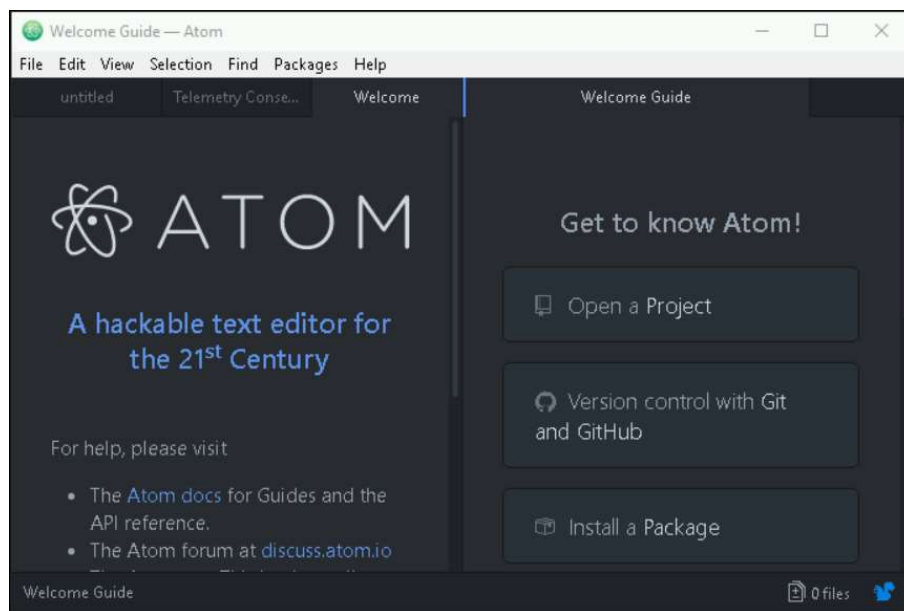
Install and uninstall software using Windows GUI

Installing Atom

First, you'll install the Atom text editor. Using Google Chrome, visit <http://www.atom.io> to download the latest version of Atom. Once you have downloaded the file, open your "Downloads" folder under **C:\Users\qwiklabs\Downloads**. You should see the installer, called "AtomSetup-x64". Double click the executable and the process should begin:



When it's finished, Atom will automatically open:



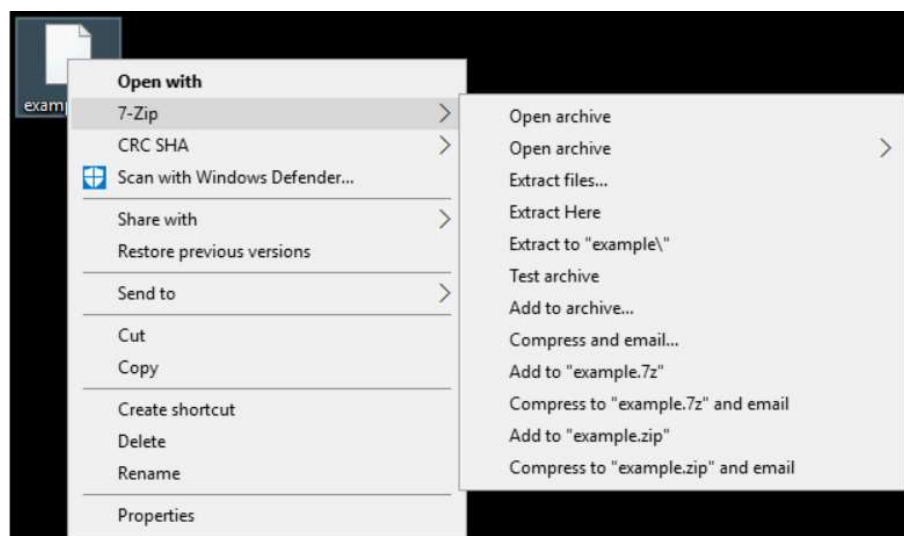
You won't need to use Atom during this lab, so feel free to close the program.
Later tater!

Click Check my progress to verify the objective.

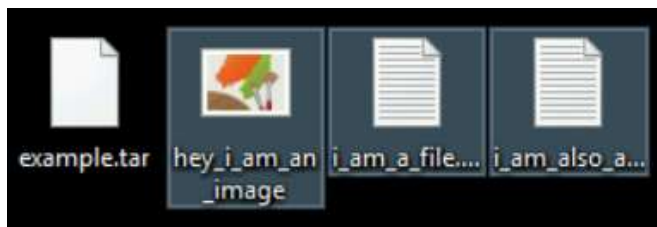
Atom

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

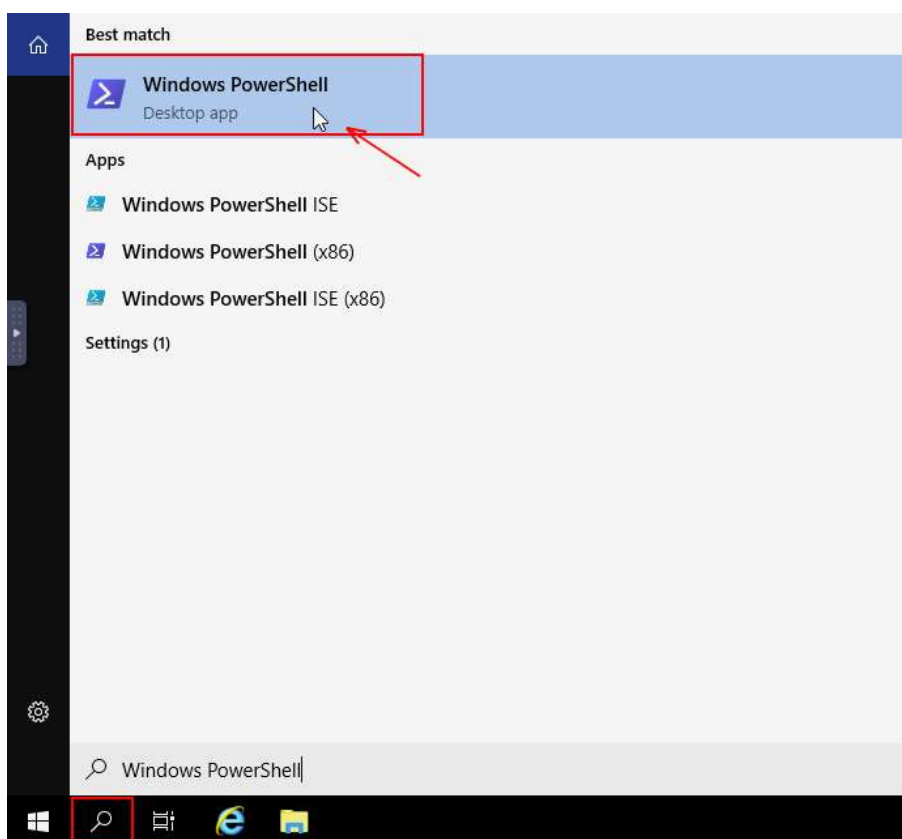
Archiving files

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\
```

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
```

Click Check my progress to verify the objective.

Archiving Files with PowerShell

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. Chocolatey is a super convenient command-line tool for managing your installed applications, that can be used in the Powershell terminal. It hasn't been pre-installed on your virtual machine *windows-instance*, so you'll need to add it yourself. 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".

Head's up: Some of the commands using Chocolatey print output that looks like an error message. This is usually ok, and you can proceed anyway. To avoid having this displayed, you can enter this command in your Powershell terminal:

```
$ErrorActionPreference= 'silentlycontinue'
```

Installing Chocolatey

In your open Powershell terminal, you first need to register the Chocolatey package with Powershell. Your machine may currently have it registered incorrectly, so unregister it with this command (if you see an error, it means that it is not registered):

```
Unregister-PackageSource -Name chocolatey
```

Then you can re-register Chocolatey, so that it can be installed using this command (one line):

```
Register-PackageSource -Name chocolatey -ProviderName Chocolatey -Location http://chocolatey.org
```

You'll need to enter "Y" for "Yes" when prompted to confirm the operation.

Using Chocolatey to install VLC

Now you can use Chocolatey to install VLC (a media player) using the following command, and bypassing the need to find and download an installer manually:

```
Install-Package -Name vlc -Source chocolatey
```

You'll be prompted to confirm the installation midway through the process. To do this, enter "A" (for "All") to accept all prompts at once.

You can verify that VLC has successfully been installed with this command:

```
Get-Package -Name vlc
PS C:\Users\qwiklabs> Get-Package -Name vlc
Name                Version            Source              ProviderName
----                -
vlc                 3.0.11            C:\Chocolatey\lib\vlc.3.0.11\... Chocolatey
PS C:\Users\qwiklabs>
```

Click Check my progress to verify the objective.

VLC

Uninstalling GIMP

You can also use Chocolatey to uninstall programs, too. 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 use uninstall GIMP, a photo editor, using this command:

```
Choco Uninstall GIMP
```

You'll be prompted to confirm your choice again by typing "Y" (for "Yes"). Once the process finishes, GIMP will no longer be installed on your system. You can verify this with the following command and seeing that GIMP is not listed:

```
Get-Package
```

Click Check my progress to verify the objective.

GIMP

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.

End your lab

When you have completed your lab, click **End Lab**. Qwiklabs removes the resources you've used and cleans the account for you.

You will be given an opportunity to rate the lab experience. Select the applicable number of stars, type a comment, and then click **Submit**.

The number of stars indicates the following:

- 1 star = Very dissatisfied
- 2 stars = Dissatisfied
- 3 stars = Neutral
- 4 stars = Satisfied

- 5 stars = Very satisfied

You can close the dialog box if you don't want to provide feedback.

For feedback, suggestions, or corrections, please use the **Support** tab.