CLI 101 Tutorials

Read/Watch the required knowledge, and complete each section’s activity

Contents

[1: Setup working folders 1](#_Toc113610731)

[2: Install Standard Software 2](#_Toc113610732)

[3: CMD – beginners guide 3](#_Toc113610733)

[4: Powershell – beginners guide 4](#_Toc113610734)

[5: Setup Windows Bash 5](#_Toc113610735)

[6: My First Global Bash Script 6](#_Toc113610736)

# 1: Setup working folders

Follow instructions to set up working folders

**Required Knowledge:**

None

**Activities:**

Create Development Folders, these will be needed for installing software and code into

|  |  |
| --- | --- |
| **Directory** | **Description** |
| C:\dev | create dev folder on c |
| C:\dev\repos | create a folder for storing git repos |
| C:\dev\bin | create a folder for storing executables |
| C:\dev\docs | create a folder for storing helpful local documentation |
| C:\dev\passwords | create a folder for storing keypass password file |

# 2: Install Standard Software

Follow instructions to standard software

**Required Knowledge:**

None

**Activities:**

1) Install keepass, Password and Credential storage

*use this for all password storage,* ***NEVER*** *keep secrets in plain text!*

* download install keepass   
  <https://keepass.info/download.html>
* create a file in your passwords folder   
  "C:\dev\passwords\riversafe\_passwords.kdbx"

2) Install Windows Directory Tree, for detecting file sizes across deeply nested file systems

<https://windirstat.net/download.html>

3) Install windows 7-zip, for downloading and unzipping most formats

<https://www.7-zip.org/>

4) Install Notepad++ , simple text editor

<https://notepad-plus-plus.org/downloads/>

# 3: CMD – beginners guide

**Required Knowledge:**

*none*

**Activities:**

1) Open the beginners guide to CMD in chrome

<https://www.makeuseof.com/tag/a-beginners-guide-to-the-windows-command-line/>

2) Openup a CMD window

3) Running through the guide, run commands locally in your CMD command prompt window

# 4: Powershell – beginners guide

**Required Knowledge:**

Read through Mircosoft’s getting started guide for powershell   
<https://docs.microsoft.com/en-us/powershell/scripting/learn/ps101/01-getting-started>

**Activities:**

WARNING: only skimming the surface, powershell is a deep tool, with a rich and powerful shell language  
This is only teaching you to startup powershell, and execute a example command  
  
Go through the discover powershell guide, and run your first powershell command  
<https://docs.microsoft.com/en-us/powershell/scripting/discover-powershell>

**Bonus Activities:**  
If you **really** want a beginners guide to powershell script, however this is entirely optional, for this course we’ll concentrate on bash scripting

<https://docs.microsoft.com/en-us/powershell/scripting/learn/ps101/00-introduction>

# 5: Setup Windows Bash

Follow instructions to install and setup Git-bash   
  
**Required Knowledge:**

None

**Activities:**

Install Git-Bash (defacto best git cli for windows)

* <https://gitforwindows.org/>

Activities:

Run git bash, to make sure your setup is working

$ $ git --version

git version 2.31.0.windows.1

# 6: My First Global Bash Script

Follow instructions to install and setup Git-bash   
  
**Required Knowledge:**

None

**Activities:**

1) Create a file called “helloworld.sh” in your /c/dev/bin/ with the contents

**#!/usr/bin/env bash**echo "helloworld"

2) Open git-bash, and navigate and execute the file locally  
  
./helloworld.sh  
  
aka  
A picture containing text

Description automatically generated

3) Add C:\dev\bin to your system path variable   
<https://www.architectryan.com/2018/03/17/add-to-the-path-on-windows-10/>   
  
4) Restart bash, and run “helloworld.sh”  
  
  
  
Congrats that’s you finished the CLI 101 tutorials !  
Text

Description automatically generated