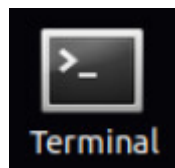## LAB – RUNNING YOUR FIRST PROGRAM

OBJECTIVE

In this lab, you will run your first Python program in the lab environment.

PART 1

Open a terminal and switch to the lab directory

STEP 1: OPEN A TERMINAL WINDOW

Double-click the Terminal icon on the desktop to open the terminal window for use in this lab.

STEP 2: CHANGE DIRECTORY

Change to the directory **labs/prne/** in the user home directory, which holds the files for the course labs.

```
~$ cd labs/prne/
```

PART 2

Run the program to connect via SSH to the devices, extract the IOS version that is currently running on them and output the data to a file.

STEP 1: RUN THE PROGRAM

Run the program from the terminal.

```
~/labs/prne$ python3 version.py
```

Verify that the ssh connection was successful and the output is comparable to below.

```
devasc@labvm:~/labs/prne$ python3 version.py

Devices list:  ['192.168.56.101', '192.168.56.130']

Establishing SSH session:  192.168.56.101 cisco cisco123!
--- Connected to:  192.168.56.101
--- Getting version information
--- Got version:  Version 16.09.05

Establishing SSH session:  192.168.56.130 cisco cisco123!
--- Connected to:  192.168.56.130
--- Getting version information
--- Got version:  Version 17.03.02

The file version-info-out.txt has been created with device version data

devasc@labvm:~/labs/prne$
```

PART 3

Open the **Caja** file manager and switch to the **prne** directory, to verify the creation of the **version-info-out.txt** file and content.

STEP 1: OPEN THE CAJA FILE MANAGER

Double-click the labs icon on the desktop to open the Caja file manager in the labs directory.
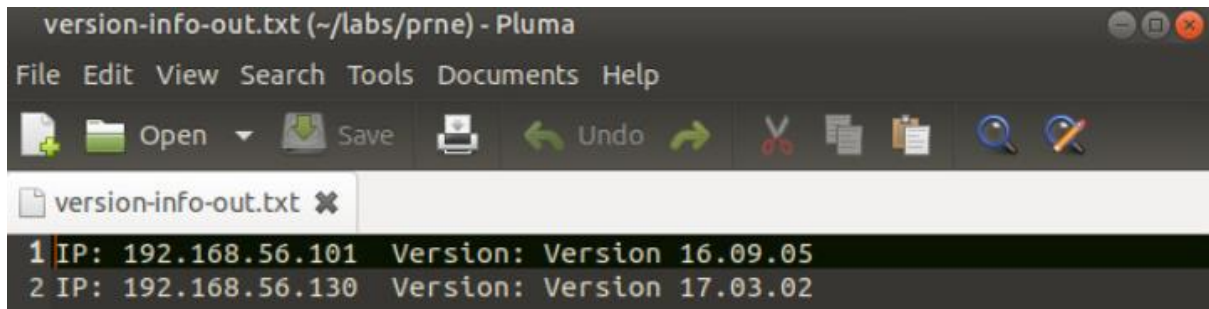

STEP 2: CHANGE DIRECTORY

Change to the **prne** directory, which holds the **version.py** program and the output file **version-info-out.txt** that was created in Part 2.

STEP 3: VERIFY THE CONTENTS OF THE OUTPUT FILE

Open the file **version-info-out.txt** and verify that the contents are comparable to below.