



National
College of
Ireland

Configuration Manual

MSc Research Project
Cyber Security

Pratik Prakash Raut
Student ID: 20185847

School of Computing
National College of Ireland

Supervisor: Prof. Niall Heffernan

National College of Ireland
MSc Project Submission Sheet
School of Computing



Student Name: Pratik Prakash Raut
Student ID: 20185847
Programme: MSc in Cyber Security **Year:** 2022
Module: MSc Research Project
Lecturer: Prof. Niall Heffernan
Submission Due Date: 18/09/2022
Project Title: Protecting speech based One – time password from man in the middle attack

Word Count: 469 **Page Count:** 8

I hereby certify that the information contained in this (my submission) is information pertaining to research I conducted for this project. All information other than my own contribution will be fully referenced and listed in the relevant bibliography section at the rear of the project.

ALL internet material must be referenced in the bibliography section. Students are required to use the Referencing Standard specified in the report template. To use other author's written or electronic work is illegal (plagiarism) and may result in disciplinary action.

Signature: Pratik Prakash Raut

Date: 18/09/2022

PLEASE READ THE FOLLOWING INSTRUCTIONS AND CHECKLIST

Attach a completed copy of this sheet to each project (including multiple copies)	<input type="checkbox"/>
Attach a Moodle submission receipt of the online project submission, to each project (including multiple copies).	<input type="checkbox"/>
You must ensure that you retain a HARD COPY of the project, both for your own reference and in case a project is lost or mislaid. It is not sufficient to keep a copy on computer.	<input type="checkbox"/>

Assignments that are submitted to the Programme Coordinator Office must be placed into the assignment box located outside the office.

Office Use Only	
Signature:	
Date:	
Penalty Applied (if applicable):	

Configuration Manual

Pratik Prakash Raut
Student ID: 20185847

1. Introduction

This document is intended to guide the user to install all the required dependencies and run the application successfully. The primary language used is Python and the database used is SQLITE3.

2. System Requirements

2.1 Host machine:

Base machine: OS Windows 10 Machine

System type: 64-bit operating system

Memory: 40 GB 2400 MHz DDR4

GPU: Nvidia 1050 gpu, 16 GB

Storage: SSD: 100 GB of free space

2.2 User machine:

Base Machine: Mac / Windows

System type: 32/64-bit operating system

Processor: Two processor cores

Memory: 2/4 GB System

Type: 32/64 bit

Virtual Disk: Minimum 7.2 GB of free space

3. Libraries Used

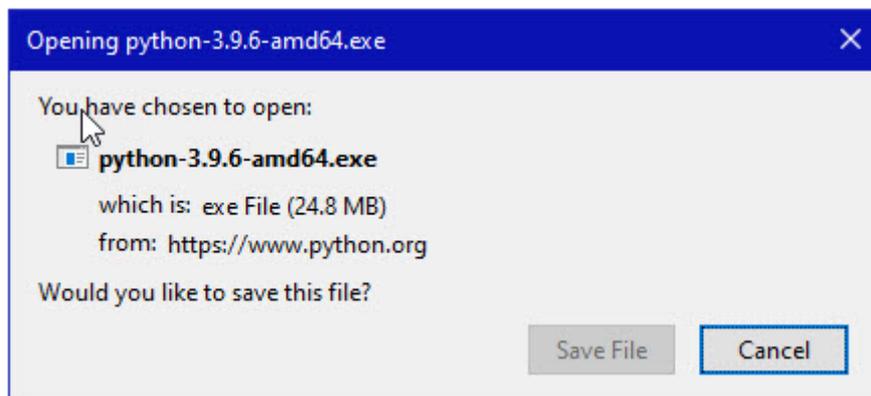
3.1.1 Downloading Link :

<https://www.python.org/downloads/>(Download Python, no date)

The page that you see below will load in your browser at this time.



To download Python 3.9.6, by clicking on the button. When the pop-up window appears



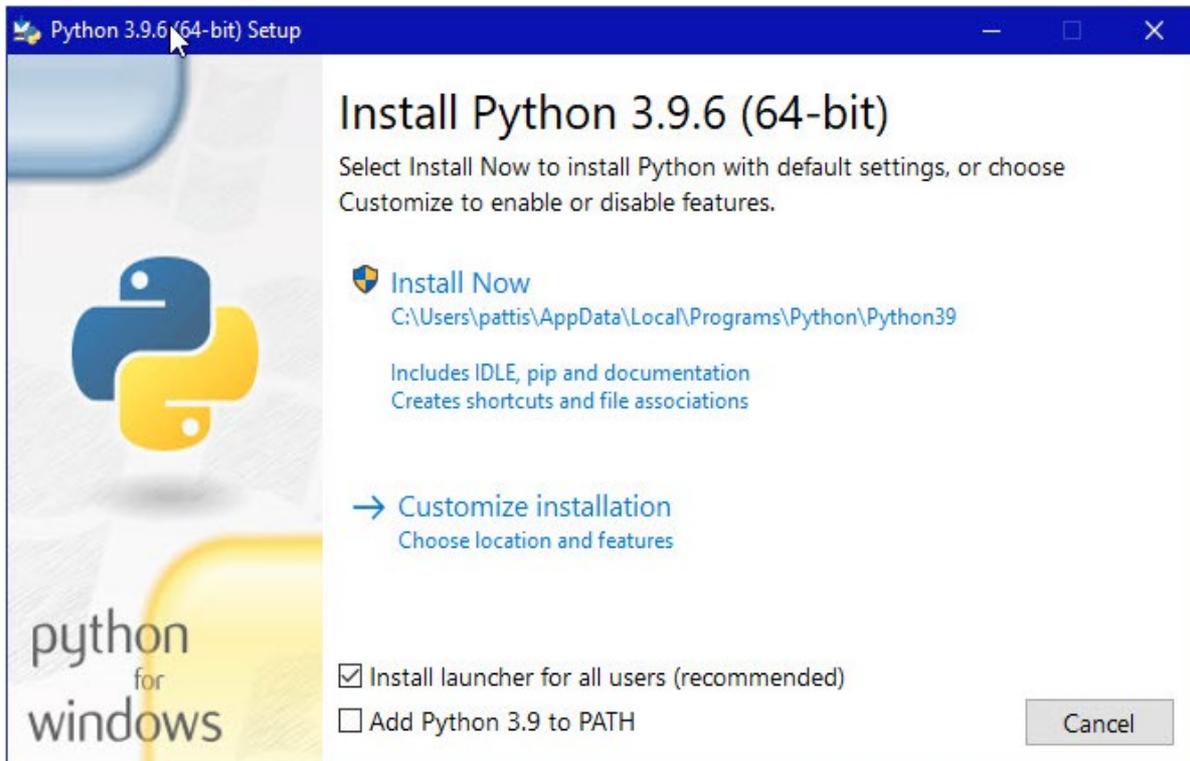
Click on the **Save File** button.

The file should appear in your **Downloads** folder as

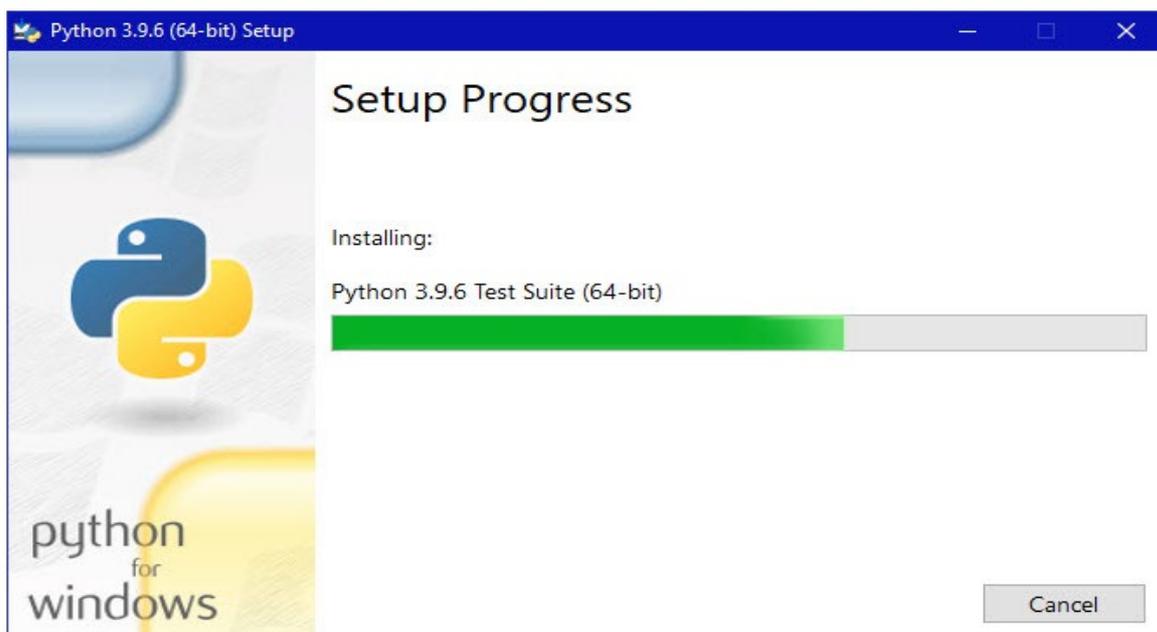
 python-3.9.6-amd64.exe	7/8/2021 12:02 PM	Application	25,428 KB
--	-------------------	-------------	-----------

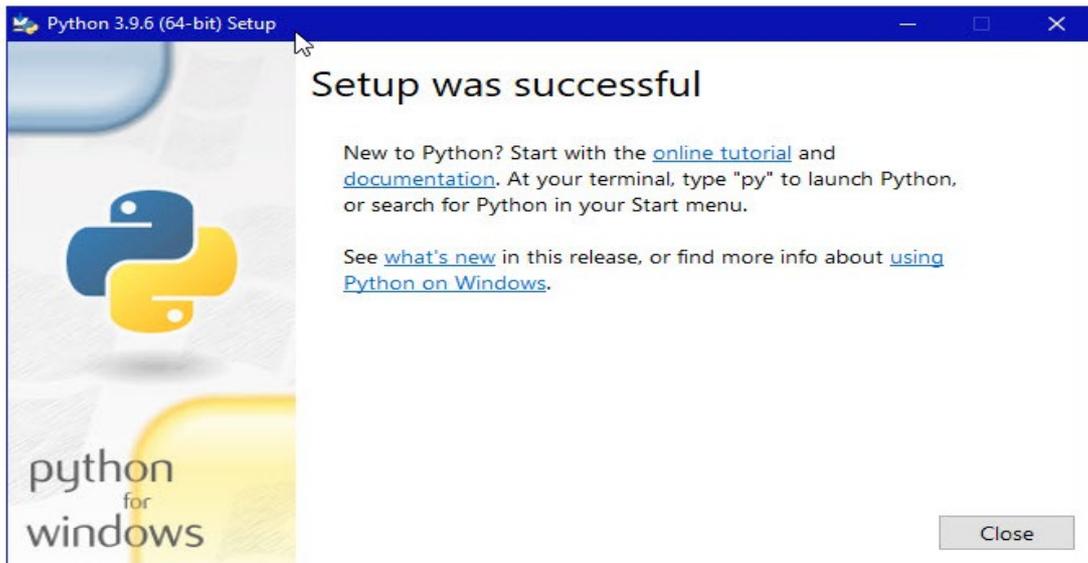
4. Installing the setup file of Python

Double-click on the setup file which was downloaded



1. Check both the unchecked boxes
2. Click on install now option
3. Do you want to allow this app to make changes to your device. Click the Yes button.
A new Python 3.9.6 (64-bit) Setup pop-up window will appear with a Setup Progress message and a progress bar.



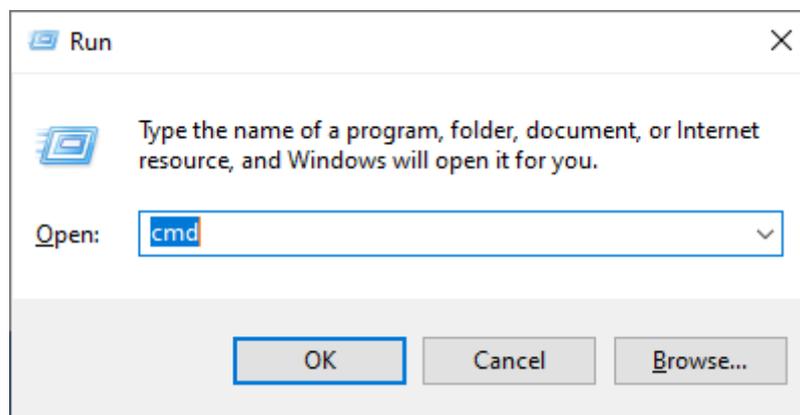


Python should now be installed.

5. Install Flask

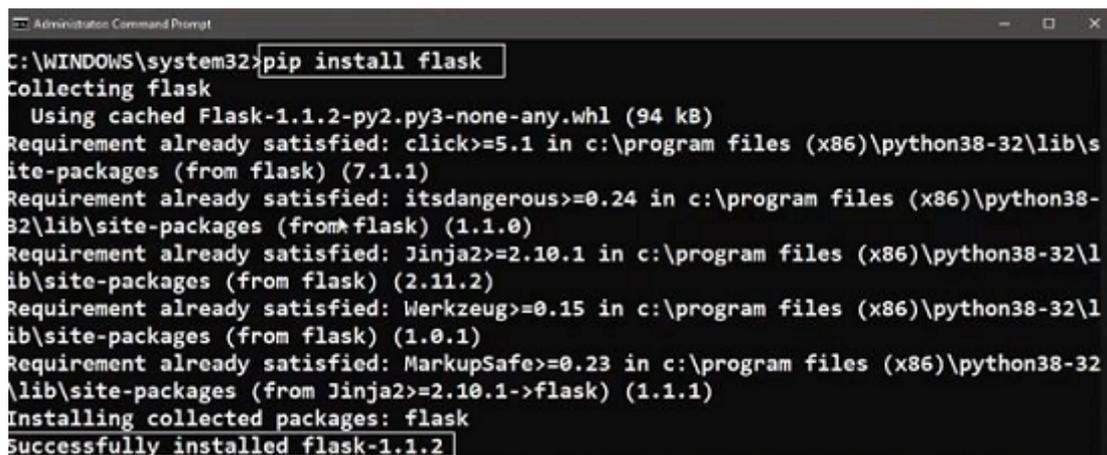
Open command prompt by windows + R

And then type "cmd"



And Hit ok

Then, Type **-pip install flask**



```
c:\WINDOWS\system32>pip install flask
Collecting flask
  Using cached Flask-1.1.2-py2.py3-none-any.whl (94 kB)
Requirement already satisfied: click>=5.1 in c:\program files (x86)\python38-32\lib\site-packages (from flask) (7.1.1)
Requirement already satisfied: itsdangerous>=0.24 in c:\program files (x86)\python38-32\lib\site-packages (from flask) (1.1.0)
Requirement already satisfied: Jinja2>=2.10.1 in c:\program files (x86)\python38-32\lib\site-packages (from flask) (2.11.2)
Requirement already satisfied: Werkzeug>=0.15 in c:\program files (x86)\python38-32\lib\site-packages (from flask) (1.0.1)
Requirement already satisfied: MarkupSafe>=0.23 in c:\program files (x86)\python38-32\lib\site-packages (from Jinja2>=2.10.1->flask) (1.1.1)
Installing collected packages: flask
Successfully installed flask-1.1.2
```

Flask is also now installed.

After this, the following packages needs to be installed using pip:

- pip install Flask==2.0.1
- pip install itsdangerous==2.0.1
- pip install werkzeug==2.0.3
- pip install --user yagmail
- pip install --upgrade pip

6. How to run the program

1. After installing the required dependencies mentioned above, unzip the code directory in the preferred location on PC.

2. open command prompt on the same location and type the following command python app.py

This will get the server up and running. Do not close the terminal.

3. open the web browser and go to the following:

Url: localhost:5000

References

Download Python (no date) *Python.org*. Available at: <https://www.python.org/downloads/> (Accessed: 15 August 2022).