# Cybersecurity Piscine

## ft_onion

*Summary:* *Unleash the power of anonymity on the Internet.*

*Version: 1.00*

# Contents

# Chapter I

# Introduction

The goal of this project is to create a web page and make it accessible from the Tor network by creating a `hidden service`. The `hidden service` is a web service that hides on the Tor network.

What is the Tor network?

# Chapter II

# Prologue

The Silk Road stretched across the entire Asian continent, connecting China with Mongolia, Persia, India, the Middle East, Turkey, Europe, and Africa. Despite the name, it was not the valuable cloth that was primarily traded. Glass, leather, weapons or war machines traveled the world, expanding industrial discoveries, printing techniques, gunpowder or the compass.

# Chapter III

# Mandatory Part

You must run a web server that shows a webpage on the Tor network.

- The service must have a static web page: a single `index.html` file. The page will be accessible through a url of the type `xxxxxxxxx.onion`. The content displayed on the page is `up to you`.

- `Nginx` will be used to configure the web server. No other server or framework is allowed.

- Access to the static page via HTTP on port 80 must be enabled.

- Access to the server via SSH on port 4242 must be enabled.

- You should not open any ports or set any firewall rules.

```
| Files to submit   |
|-------------------|
| index.html |
| nginx.conf |
| sshd_config |
| torrc |
```

You can use anything you want in order to validate this project. It is noted that you should be careful not to go too far.

However, you need to justify your choices and add what is needed to your repository.

Whether it is a docker image or something else.

If you choose to use a VM you don't have to push it in your repository.

# Chapter IV

# Bonus Part

You can enhance your project with the following features:

- SSH fortification. It will be thoroughly tested during evaluation.

- An interactive application, something more impressive than a static webpage.

> The bonus part will only be assessed if the mandatory part is PERFECT. Perfect means the mandatory part has been integrally done and works without malfunctioning. If you have not passed ALL the mandatory requirements, your bonus part will not be evaluated at all.

# Chapter V

# Submission and peer-evaluation

Turn in your assignment in your `Git` repository as usual. Only the work inside your repository will be evaluated during the defense. Don't hesitate to double check the names of your folders and files to ensure they are correct.