



Cybersecurity Bootcamp | 42

ft_onion

Summary: Unleash the power of anonymity on the Internet.

Version: 1

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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.



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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 |
```

Chapter IV

Bonus Part

The evaluation of the bonuses will be done **IF AND ONLY IF** the mandatory part is **PERFECT**. Otherwise, the bonuses will be totally **IGNORED**.

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.

Chapter V

Peer evaluation

This project will be corrected by other students. Turn in the files inside the Git repository and make sure everything works as expected.