

National Taiwan Normal University  
CSIE Information Security

*Instructor:* Po-Wen Chi

*Due Date:* May 26, 2024, PM 11:59

# Assignment 4

## Policies:

- Zero tolerance for late submission.
- Please pack all your submissions in one zip file. **RAR is not allowed!!**
- I only accept **PDF**. MS Word is not allowed.
- Hand-writing is not allowed.
- Please use **Chinese**.

## 4.1 Teamviewer (20 pts)

TeamViewer is a remote access and remote control computer software, allowing maintenance of computers and other devices. It is very interesting that you can use Teamviewer to remote control a computer even it is behind the NAT server. Would you please find how Teamviewer make this and provide some evidence?

## 4.2 Lab: TCP Attacks Lab (20 pts)

- Lab: [https://seedsecuritylabs.org/Labs\\_20.04/Networking/TCP\\_Attacks/](https://seedsecuritylabs.org/Labs_20.04/Networking/TCP_Attacks/)

You need to submit a detailed lab report, with screenshots, to describe what you have done and what you have observed. You also need to provide explanation to the observations that are interesting or surprising. Please also list the important code snippets followed by explanation. Simply attaching code without any explanation will not receive credits.

## 4.3 Lab: The Kaminsky Attack Lab (30 pts)

- Lab: [https://seedsecuritylabs.org/Labs\\_20.04/Networking/DNS/DNS\\_Remote/](https://seedsecuritylabs.org/Labs_20.04/Networking/DNS/DNS_Remote/)

You need to submit a detailed lab report, with screenshots, to describe what you have done and what you have observed. You also need to provide explanation to the observations that are interesting or surprising. Please also list the important code snippets followed by explanation. Simply attaching code without any explanation will not receive credits.

## 4.4 Lab: Webgoat (30 pts)

**WebGoat** is a deliberately insecure web application maintained by OWASP designed to teach web application security lessons. This program is a demonstration of common server-side application flaws. The exercises are intended to be used by people to learn about application security and penetration testing techniques.

<https://github.com/WebGoat/WebGoat>

In this assignment, we use **v2023.8**. Please complete all tasks about **(A1) Broken Access Control**. You need to submit your write-up with screenshots.