

## **CE/CZ4067 SOFTWARE SECURITY**

### **CTF Instructions & Rules**

Welcome to the 3<sup>rd</sup> CE/CZ4067 CTF competition! Please read the instructions below carefully, which include the scoring rules and the deliverable.

## **1 Instructions**

The competition will be conducted as a part of the “CE/CZ4067 Software Security” course. Winners will get shopping vouchers worth up to S\$100. The detailed prizes are listed below.

<b>Prizes</b>	<b>Award Value (per team)</b>
1 <sup>st</sup> Prize	S\$100
2 <sup>nd</sup> Prize	S\$70
3 <sup>rd</sup> Prize	S\$50
4 <sup>th</sup> – 9 <sup>th</sup>	S\$20

The competition will start from **20 March, 9:00** and ends at **27 March, 23:59**. Each participating team should comprise 1 to 3 students who are currently taking the course. Since the results of the competition will be used as a part of your continuous assessment (20%), **you should attempt the challenges all by yourself—outside help is strictly disallowed**. This includes posting the challenge in online forums, searching for solutions to the exact challenges, or asking your friends for help, which are against the university policy on academic integrity.

The challenges will be posted on the CE/CZ4067 CTF competition website (<http://155.69.149.208/>), which is only accessible on campus network or through VPN. All team members will need to register an account with their NTU email addresses. The team captain can then create a team and invite the other team members (if any) to join.

The competition automatically starts according to the said schedule, and then you will be able to see all the challenges and enter your answers through the website. The scoreboard can be viewed at any time from the website, and we will announce the winners and prizes shortly after the scheduled ending time.

## 2 Scoring and Rules

We will have two types of challenges, namely, “quiz” and “flag”. Each challenge may worth a different score according to their difficulties. You may choose any order in attempting them. But bear in mind that, some flags use dynamic scoring: the more solves a flag has, the lower its value is to everyone who has solved it. You may attempt multiple times on a challenge, but do not try to brute force it. Your attempts will all be recorded.

The following general CTF rules also apply.

- No cooperation between teams with independent accounts. Sharing of keys or providing revealing hints to other teams is cheating, do not do it.
- No attacking the competition infrastructure. If bugs or vulnerabilities are found, please alert the competition organizers immediately.
- Absolutely no sabotaging of other competing teams, or in any way hindering their independent progress.
- No brute forcing of challenge flag/keys against the scoring site.
- DoS-ing the CTF platform or any of the challenges is forbidden.

Sharing solutions with others is strictly forbidden. Since teams are competing against each other, there should be little incentive to share your solutions with the others. The CA marks will be “bell-curved” according to your team scores in the competition, which means you do not need to solve all the challenges to be able to do well in the CA mark. You will get reasonably good marks if you are above the average. Of course, if you aim for the prizes, you should always try your best.

## 3 Experience Report

All teams are required to submit an experience report (not exceeding 15 pages) describing the techniques used and steps followed in obtaining the flags. Any team fails to specify the process clearly loses marks for the corresponding challenge.

The report is due two weeks after the competition on **10 April, 2022**. Please submit on NTULearn through Turnitin under “Content/CTF Competition/CTF Report”.

Good luck and have fun!