



MACQUARIE University

Faculty of Science & Engineering

COMP2320/COMP6320 Offensive Security

Week 7 – Work Plan

LECTURE

- Attend the Zoom lecture meeting on Tuesday 5.00pm to 5.30pm and participate in lecture discussions. Zoom meetings will be recorded and will be shared via Echo360.
- Read the Week 7 lecture material and watch the recorded lecture content in Echo360.
- Try to ensure you actively engage with the lecture material to help gain benefit from your investment in the lecture sessions.
- Some students find it helpful to take notes throughout the lecture session as this helps maintain concentration on the lecture material.
- Post your queries in the “Discussion Forum – for asking the teaching staff questions”.

PRACTICAL CLASS

- Attend the practical class and complete the weekly tasks. For the online practical class, attendance is via Zoom.
- Continue working on Overthewire (Natas) exercises.
- This week you will work on three vulnerable machines, named FluxCapacitor, Falafel, and Mango from our HTB dedicated lab.
- Record a video of all steps you follow to complete Natas levels in this week.
 - The video recording should not exceed 30 minutes and it should have an audio narration.
 - Submit the recorded video as a group through the submission link in iLearn. Each group needs to submit only one video.
- During the first hour of your practical class, you may submit questions related to the practical to your tutor via the Zoom chat feature.
- Your tutor will select a set of questions to answer in the second hour of the practical session.
- Tutorial task submissions will be marked by your tutor. Grades will be released by the end of Week 9.

GROUP PROJECT

- The list of your team members and your group projects is at <https://ilearn.mq.edu.au/mod/page/view.php?id=6536296>.

- The marking guide for group project is at <https://ilearn.mq.edu.au/mod/resource/view.php?id=6536297> for more details.
- You will work on the topic as a group and will prepare a demo of the exploit for your presentation. Group reports, presentation slides, and the demo video need to be submitted by Week 12. Groups will deliver their presentations during the scheduled class hours in Week 13. Presentations will be given via Zoom.
- Manage your time to successfully complete your project.

CTF EXAM

- Prepare yourself for the second Capture The Flag (CTF) exam which will happen on the Wednesday of Week 8.
- You can use the material learnt from both lectures and practical classes to complete the CTF exam.
- The CTF exam includes two components: an individual test (12%) and a group assessment (12%).
 - The individual test is a short online exam (15 minutes), which should be completed through iLearn. The link to the individual test remains open from 9 am to 9 pm on Wednesday, September 29th. Once you click on the exam link you will have 15 minutes to complete it. There could be various types of questions: short answer/essay, multiple choice, and matching questions. The questions will be randomly pulled from a big question bank and everyone will have a different set of questions.
 - For the group assessment, your group will be given a set of challenges to hack into, obtain some security objectives, submit the flags, and then write a report.
 - * Each group must submit the identified flags through iLearn during the practical class hours.
 - * Each student must submit a Turnitin report for their group activity, outlining what they did to identify vulnerabilities during the CTF. This report will also require students to provide a reflective section focusing on the ethical implications of what they have done during the practical exam whilst attempting to find the vulnerabilities.
 - * Reports should be submitted by 5pm Friday of Week 9.
 - During the practical class, students will be able to utilise the Zoom ‘breakout room’ functionality in order to work as a team.
 - More information will be released in Week 8.

CONSULTATION MEETING

- For consultation meetings, please book an appointment in advance.
- For questions related to practical classes, contact your tutor Jesse (jesse.nguyen@mq.edu.au) or Rohit (rohitranjanvasantkumar.gupta@mq.edu.au). Jesse and Rohit have consultation hours before the CTF exams in Weeks 8 and 12.
- For questions related to Weeks 7-8 lecture material, contact Mehdi (mehdi.baratipour@mq.edu.au).
- For questions related to Weeks 5-6 lecture material and unit administration, contact Alireza (alireza.jolfaei@mq.edu.au).