Cyber Operations

**Final Project**

# Final

This final exam will be one of two options, no need to do both parts. It’s kind of like a choose your own adventure book only with a grade and such.

### Option 01 – Presentation/Demo

For this option, you get to take a concept that we have touched on in class or something related and take it to the next step. Loved the persistence phase? Find some new cool methods and teach us. Interested in social engineering? That’s a great topic too. Whatever it is, it needs to be something related to our class in offensive security. It’s also awesome to have something on hand when an employer asks to see what kind of stuff you work on.

Here’s the guidelines:

* The topic you choose must be related to our class. If you’re not sure, ask me before you sign up for one.
	+ No duplicates or repeats of someone else’s choice.
* At a minimum, your presentation should include:
	+ An introduction to the topic - why do we care?
	+ Three main ideas
	+ Demo, code, walk-through
	+ Conclusion, where to go next
* Deliverables
	+ Short write-up on the topic including the requirements above. Word, PDF, GitHub is fine (see example below).
	+ 10-12-minute video presentation on the topic.
		- Please be concise. Longer video != better video. 10 minutes goes quick so plan accordingly.
		- The video will be recorded and you will submit the YouTube link to the dropbox.
		- If you need help with screen recording software let me know. Don’t hold some potato up and record your screen.

### Option 02 – Write a Report

We’ve worked extensively on our pen testing phases. At the end of it all, usually the pen tester’s job is to write a report. Write a pen test report on your VMs.

Guidelines for your report:

* Document your process from start to finish in a professional manor. Use the mindset that you may need to present this to a client who is dishing out the big paychecks for you to do this work.
* Follow some sort of framework or methodology. PTES is a great standard that many pen testers use for their reports.
	+ <http://www.pentest-standard.org/index.php/Main_Page>
	+ A sample report can be found here: <https://www.offensive-security.com/reports/sample-penetration-testing-report.pdf>
	+ Our *Hacker Playbook 2* book has some helpful hints at the end in the **Post Game Analysis – Reporting** section with some good hints as well.
* Write a report based on your findings. Do **not** simply copy this sample report and fill in your details. This is meant to serve as a guide for you on what types of sections to include, formatting, etc. There are lots of report templates out there, this one is my preference, but I’ll leave it to you. The reports will be run through the originality checker, so please be sure to use your own words.

## What to submit

If you chose Option 1:

* Link to your video
* Your write-up in Word/PDF. If you use GitHub like in my example that’s fine too, just post a link.

If you chose Option 2:

* When you are finished writing your report, submit the document in a single PDF or Word format to D2L by the deadline.