

# Advanced Cyber Security Principles and Applications Project

## Term Project Assignment & Guidelines

1. You are to conduct an in depth study of at **least five Security Audit tools.**
2. You are to document at least four pages, plus a cover, for each tool that you have chosen.
3. A good typical layout would consist of;
  - a. **Main document cover**
  - b. **Table of contents**, showing what tools are on what pages, end note page, and so on.
  - c. **Cover for tool #1**
  - d. **Description of tool #1**, how it works, algorithm(s), method(s), where obtained, author / company, size, platform / os it runs on, does it integrate with other software for added functionality (if so list it). Details of how to use the tool would be nice.
  - e. **Screen Shot(s)** of tool #1 – Color would be nice here!
  - f. **Input's / output's.**
  - g. **Summary of tool #1**, does it work, is it difficult to use, easy to use, was it fast or processor intensive?
  - h. **Advantages & Disadvantages** for tool #1.
  - i. Repeat for each tool .....
  - j. **Project summary** – what did you learn from all of this, what is you favorite Security Audit tool, least favorite Security Audit tool? Why?
  - k. Next page, **future implications**, Write a few paragraphs on how Security Audit Tools could solve some of the problems IT Security professionals face every day.
  - l. **End Note Page** – **You must cite all sources used, including any web sites where you downloaded software / tools from.** The end notes **must be in the APA format!!!** At least one endnote per tool! This is **10%** of the paper.
  - m. **Cover Page** – **Title, your name, course, section, date due, my name.**
  - n. **All pages must be numbered in the form of Page x of y bottom center.**
  - o. **All type is standard 12 point, Times New Roman font, double spaced.**
  - p. **Place the printed hard copy in a presentation type folder**, small 3 ring binders are best for a report of this size. I will give these back to you and I would hope that you will be proud to use these on a job interview.
4. **You should run these tools on virtual environment and prove that in the printed screen shots. Thus you will get to secure your computers while doing this project.**
5. **All work is to be done individually.**
6. **This project is 25% of your final grade.**
7. **Please follow these guidelines carefully.**
8. **VERY IMPORTANT – ALL WORK MUST BE YOUR OWN, DO NOT COPY AND PASTE FROM WEB SITES OR ANY OTHER SOURCE. ANYONE DOING THAT WILL FAIL THE COURSE!!!**

Some examples of tools:

MBSA

Nessus

Retina Eeye

SAINT

Also a very good site [www.insecure.org](http://www.insecure.org) on the list column look for Vuln Scanner