CRS

FITCHBURG STATE UNIVERSITY

RED TEAM

40 hours course

LEVEL

Medium

HW REQUIREMENTS

Each student should have a PC/ laptop including: WIN10 Pro, Intel i5 Series 7 or higher CPU, 6GB RAM, at least 4GB free HDD.

PREREQUISITES

Candidates must have an understanding of development, networking, Linux and Windows domain. Each candidate must pass an entrance exam to qualify for the course.

AUDIENCE

Security Professionals

Technically skilled SOC Analyst or IT Developer who seeks a Penetration Testing or Red Team position.

DESCRIPTION

Red teamers must be like ninjas. They need to attack a corporation, steal information, and do so with extreme stealth. It's a challenge to intrude an organization and spread inside until you achieve the penetration test goals. To do that and also avoid the information security team and security systems makes it even more difficult.

A good red team member is someone with cyber security skills alongside development skills that can create new and undetectable attacking tools. In this course the students first learn Python to create and develop new tools to help them achieve the PT goals.

There are 3 penetration testing cases that each student needs to pass and learn from each one of them new attacking skills.

COURSE OBJECTIVES

The approach of this course will prepare students to:

- Become familiar with attack methods, models and processes.
- Write detailed attack and response reports.
- Create advanced risk assessment based on technical evidence.
- Obtain public information about corporations using open-source resources.
- Develop Macros (VBA) to create malicious office files.
- Get access to networks and hosts using enumeration and password attack techniques.
- Build anonymous environment for attacking.