Beat to 1337

Creating A Successful University Cyber Defense Organization

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(Note: slide text will be mostly replaced by images during the presentation, this deck is designed as a handout)
This presentation...

Will show you a five step program to:

1. Plan! - make a goal for yourself and your university
2. Recruit! - reach out to the campus, find interested parties
3. Organize! - gather resources, don't sulk over no budget
4. Learn! - understand everyone's skills, abilities, and interests
5. Play! - compete, join a competition, start evaluating your skills

...And we'll give out prizes!
So try to be involved!
Problem

- Everyone wants to be a hacker but you're not going to learn how to hack in "Theoretical Computer Science 101"

- Even in information assurance classes, often times the subject matter is so high-level that you can't really get anything (practical) out of it...

- You may not have enough information security knowledge to walk up and be a pen-tester or researcher

- You may not know enough people to make a team
Our solution!

- We compiled data about past competitions for you to use, learn from, and ramp up your team to compete this coming year!

- We compiled a detailed guide from what we've learned and professionals we've sought advice from!

- We modified a collaboration software solution to help students play, organize and participate in CTFs!
  - We recommend a hardware solution to complement
  - Plan to distribute the software as an ISO image
What's in the Data?

- What we did and what works
  - Don't reinvent the wheel... we did it for you

- How to stop complaining about the things that are holding you back and start owning some n00bs!

- Tips on how to organize, educate and motivate a team of lazy college kids

- A calendar of national and international CTF-style competitions that you and your team can compete in!
What's in the Guide?

- Chapters and lesson plans on a wide range of information security topics including:
  - web application security
  - source code auditing
  - reverse engineering
  - exploitation
  - cryptology
  - and more!

- A list of web tutorials videos that teach everything from basic information security knowledge to super 1337 hax0r skillz
What's in the Software?

- A customized version of a web-based collaborative real-time document editor (similar to google docs) that will allow you to collaborate with your team while it mines your progress and results

- Report generating scripts that convert your mined data into fancy documents that outline your abilities and where you can improve

- An organized repository of tools, software and scripts to ensure the most efficient use of your time

- And a ton more that won't fit on this slide!
Our Experience, is this effective?

I DUNNO LOL
Your Input!

- Now we need your input and your help!
- Our goal is to integrate these games into all university programs, with great emphasis
- We need a method and metrics to prove that competition and games aid in comprehension and motivation

Tell us how to do this, ...and win some prizes!