CSE 523S: Systems Security

Assignment Project Exam Help

Corriputer & Network Systems Security

Spring 2018
Jon Shidal

Plan for Today

- Announcements
 - HW3 assigned today, due 1pm March 21st
- Questions
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- Assignment https://powcoder.com
- Vulnerabilities & West of the West of th
 - Finding known vulnerabilities
- Today: Mix of lecture and exercises.

Assignment

- HW3 assigned; due 1pm March 21st
 - See hw3 file in handouts

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https://powcoder.com

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Reviewing our progress

- Module 1 (complete)
 - L01: Introduction
 - L02: Security Principles
 - E03: Getting to know our systems
 - L04: System Design & Security: Why are compute grandenta Ple ject Example in attacks
 - E05: Exploring binaries and processes.
 - L06: System Design & Security: Why are networks yulnerable? — I uzzılı wereble? — I uzzılı erable? —
 - E07: Exploring packets
 - L08: Network Security: Revisited
 - E09: Exploring Encryption
 - L10: Understanding Vulnerabilities
 - E11: Exploring Metasploit

- Module 2 (starts today)
 - Finding known vulnerabilities
 - Stack and heap buffer overflows, integer overflows,
 - ASLR and NX
- https://powcoder.comatack No-execute

 - **Fuzzing**

Vulnerabilities & Exploits

- Monday, we used ms03_026_dcom to attack our Windows XP instance Assignment Project Exam Help
- We knew what we were attacking. https://powcoder.com
- We knew its vulnerabilities.
- We followed a script.
- How might we have done so on our own?

Scanners

- You can actively probe a network to identify machines and services Assignment Project Exam Help
- Previously, within **scapy**, we saw how to use ARP to find active **Meshamentwork**

 We can also use a tool called nmap to learn more

Nmap

Among the most popular open-source network scanners

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• Crafts packets to identify OS, open ports, and services listening by Chartrowcoder

Can be automated and extended via scripts

Like many tools, integrates well with metasploit

Vulnerability scanners

Nmap identifies machines and services

- Other tools look for known xulnerabilities

 - Nessus is the best-known, https://powcoder.com
 but it is no longer open-source
 - OpenVAS is a for Not the spay, and may retake the crown (although it is limited currently)
 - others...

We can also use tricks within metasploit itself

Organizing information

- When exploring hosts or networks for vulnerabilities, information management can be a problem Assignment Project Exam Help
 - Have I seen that address before?
 - Has something changed in the past week?
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 What target version is running?
- We can rely on metasploit's database integration to help with managing this information

Let's get to work!

- See exploring-vulns-notes in Google Docs
 - Important: use your host OS browser, do not use the browser in your VIVI Exam Help

https://powcoder.com

• Also use "Tracking Verborness: 2/12/8/2018" to indicate when you have reached a gate