## 程外代写代散 份编程辅导

Security Engineering Masterclass

#### **Vulnerabilities:**

- Vulnerabilities opers make mistakes.

Budget constr**ess** evelopers.

Majority of atta to win the easy targets.

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Injection	Injection	Injection	Cross-Site Scripting (XSS)	Unvalidated Input
Broken Authentication	Broken Authentication and Session Management	Cross-Site Scripting (XSS)	Injection Flaws	Broken Access Control
Sensitive Data Exposure	Cross-Site Scripting (XSS)	Broken Authentication and Session Management	Malicious File Execution	Broken Authentication and Session Management
XML External Entities (XXE)			Insecure Direct Object Reference	Cross Site Scripting
Broken Access Control	SeGr S Mis Officuation	CRE) Reque Dreery	Cross-Site Reguest orgen	Wam He
Security Misconfiguration	Sensitive Data Exposure	Security Miscontiguration	Information Leakage and Improper Error Handling	Injection Flaws
Cross-Site Scripting (XS )	Missing Function Level Access Control	Insecure Cryptographic	Broken Authentication and Sission Manage nen	Tropier Error Handling
Insecure Deserialization	Cross-Site Request Forgery (CSRF)	was a state of the	Insecure Cryptographic Storage	Insecure Storage
Using Components with Known Vulnerabilities	Using Components with Known Vulnerabyities	Insufficient Transport	Insecure Communications	Application Denial of Service
Insufficient Logging & Monitoring	Unvalidated Redirects and Forwards		Failure to Restrict URL Access	Insecure Configuration Management

- Finding vulnerabilities is good, but fixing it or creating a tool to identify it is great.
- OWASP Juice not has a niceland of Going COLM

### CTF:

- File information/inspector will give some nice photo metadata
- Stenograph
- Signal?
- I love my dog

We get 10000s of SOC alerts each day. How do we find the vulnerable things?

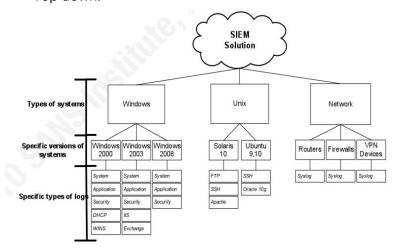
- We need to address issues within 72 hours.
- Challenge is to reduce time in triaging alerts.

#### **Forensics Tools:**

- Strings: Will look inside binary files and try to gather readable strings.
- Exiftool: A metadata extractor for photos, videos and audio.
- Binwalk: Can find hidden files inside zip files. binwalk -e file.zip
- Hex dump tool: Go find one on the web
- Steghide: Can reveal hidden messages in files. steghide extract -sf
- File: Can reveal what type of file is, regardless of the extension.

## Information Security Management (ISM) Reading:

- Log Management Process:
  - User re程st序代写代做 CS编程辅导
     System response 代写代做 CS编程辅导
  - Write system log
  - Write land system
  - Correla data. Generate alert.
    - System alerts
- Barriers to eff
  - To mal To
  - A basic for a final que of determining when the event occurred, who was involve to the final que of determining when the event occurred, who was
  - E.g. A poor example of SIEM is a failed logon event where the issue is identified (what) but the IP address of the username who attempted to login as not adequated answelled (who). CS 111101CS
  - Be wary of SIEM software that claims tens of thousands of events per seconde.
    - E.g. a firewall with one rule set to filter for a single service is much faster than a filewall set to filter the sands of rules. There multiple hester groups exist in each rule.
  - In most instances SIEM correlation is a scheduled task and note performed as every new event is collected by the system
    - Egi fradulent AtMacivity would take approximately 800 seconds to identify given the traffic and maybe another 60 seconds for a guard to go to the ATMs, by which time the user has already completed a transaction and let: 749389476
  - The data must actually be good for the SIEM system to work. Garbage in, garbage out.
  - Also need to manage/the prount of data that spees through. Too much data will lead to poor performance.
- Dissecting use cases:
  - Take a top-down bottom up middle out approach.
    - Top down:



- Group similar systems in each level of the tree.
- The assign transport methods for each. In this case log files reside on the Windows and UNIX systems which must be read and sent to the SIEM solution.

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- Each piece of information in a log file, such as an IP address is

is made up of one or more data points.



- Middle out: 749389476
Take the data points from the bottom up phase and match them to use cases across the different systems found in the enterprise.

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