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WELCOME TO COMP64{4,8}3

- 10 weeks, Assigning antos royelets Ecuainty Heyprid teaching.
- 6443 introduc es on securing code 6483 deep div https://eduassistpro.github.io/
- Sessment: Add WeChat edu_assist_pro 0% Week 1 Self-Assessment Assessment:

 - 50% Coursework
 - 10% Mid-Semester
 - 40% Final Exam
- Course contact: cs6443@cse.unsw.edu.au

A NOTE ON ETHICS / LEGALITY

- UNSW hosting this course is an extremely important step forward.
- We expect a night standard of professionalism from you, meaning:
 - Respect th https://eduassistpro.githubyinsity
 - Always abide by the law an regulations
 - Be considerated fWeehat edu_assistoner as an equal learning experience
- Always check that you have written permission before performing a security test on a system

PLEASE BE SUPER CAREFUL WHENEVER YOU'RE GENERATING NETWORK TRAFFIC

WHAT IS WEB SECURITY?

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In the age of Electron, mobile WebViews and embedded Chromium, what does "web application" even mean?

EXAMPLE: SERVER-SIDE ISSUES

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EXAMPLE: JS KEYLOGGER

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How much do you trust your browser to keep you safe?

WHAT IS WEB SECURITY?

CORPORATE CITIZENSHIP REMIX

Assignment Project2Exusmedret lays leaked,

1. Code exec on web server

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Website down for 30 mins

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4. SQLi in web store, allowing purchases for \$0.01

XL GPU instances mining

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BRIEFhttps://eduassistpro.githlub/.i3/S

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HTML

- Each web page is an XMLlike tree.
- HTML is made ssiegenment Project Exam Help
 - Attributes
 - Script https://eduassistpro.github.io/
 - Styles
- HTML5 contains new elements Chat edu_assist_pro allowing rich media
- Older elements (e.g. iframes) steadily seeing less use.

BROWSER

- Client-side application to render web content: HTML, JS, dynamicAconteginment Project Exam Help
- Behaviour not 100% identical
- Extremely comple https://eduassistpro.github.io/
- · Somewhat out-of-scopA:dd WeChat edu_assist_pro
 - Embedded browsers
 - Mobile browsers
 - MSHTA

Q: How many requests does it take to get /r/netsec? A: 102.

HTTP

- Web traffic is (mostly) done via HTTP.
 - Resources signified that Project Exam Help by URI
 - Not necessar
 - Not necessar https://eduassistpro.github.io/
- HTML/JS can allow users to send various HTTPArehdes eChat edu_assist_pro
- Headers indicate various options to the web server
 - Cookies indicate session state
 - Logout vs real logout
- GET, POST, OPTIONS, HEAD, etc

WEB SERVER

- Code exists on the web server to process user input Assignment Project Exam Help
 - Not visible
 - Before: PHP https://eduassistpro.github.io/
 - Now: .NET,
- Proliferation of frameworks
 + framework complexity

 Proliferation of frameworks
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 - Security often built-in
 - Vastly improved from good old days of PHP/MySQL
- Web Pages vs API's
 - API Firewalls

JAVASCRIPT

- Allows well saignment Project Exam Help run dynamic c user's browse https://eduassistpro.github.io/
- Large ecosyst third-party libraries
 Secured with (mostly) eChat edu_assist_pro
- sandboxing in browsers
- NodeJS*

SAME ORIGIN POLICY

- An Origin is a resource identified by a URI
- A "page" (what you see) project Examplify Project Example or igins

 Resources toaded from elsewhere

 - Frames https://eduassistpro.github.io/
- Restrictions
 - Script from Origin 2
 - ... but cannot see the response
 - Script from Origin 1 cannot access data from Origin

httpXMLHdTPRequistilla.org/en-US/docs/Web/Security/Same-origin_policy

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HOW DO https://eduassistpro.githuhPaPS?

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THE "ATTACKER MINDSET"

- Some other good names:
 - Null Aveignment Project Exam Help
 - A PNG fil
 - Newline https://eduassistpro.github.io/

 - XML/JS0N/S0L
 OS Commands dd WeChat edu_assist_pro
 - Backticks (Unix)
 - Large/small names
 - Strange character sets

A THOUGHT EXPERIMENT

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Q: How would you attack an image upload?

BASIC REQUEST AUTOMATION

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You need to be able to automate requests for this course.

INPUT SANITISATION

Assignment Project Exam Help are doing wh https://eduassistpro.github.io/done.

Understand Wwwhaledu_assistypicsible to your user.

UNDERSTANDING YOUR ENVIRONMENT

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THE SAGA OF LEFT-PAD MODERN WEB COMPLEXITY AND YOU

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https://www.theregister.com/2016/03/23/ npm_left_pad_chaos/

Q: What prevents anyone from uploading malware to package repositories?

WHY IS WEBSEC HARD NEAR-**IMPOSSIBLE**

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- Near-infinite complexity (us ogy, inputs)
- Generally untrusted environment
- Critical always-on functionality
- Increasingly modular programming / framework proliferation
- Rapidly evolving techniques

WEEK 1 (NON-ASSESSABLE) SELF-TEST

- Are you able to set up a web server, and successfully have it serve simple dynamic content? Assignment Project Exam Help
- Are you able browser, and https://eduassistpro.github.io/
- Do you know the defrerence at edu_assist_pice and client-side content?

Please call out if you get stuck.
Support one another, your tutors are here to help!

REFERENCE: TOOLS OF THE TRADE

- Python (<u>www.python.org</u>)
 - · requests signment Project Exam Help
 - http.serve
 - Not mandathttps://eduassistpro.gkthub.io/
- Burpsuite, or
 - OWASP Zap Add WeChat edu_assist_pro
 - Fiddler
- Your browser's developer tools
- Basic JavaScript (javascript.com)

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