

Why Teach Hacking?

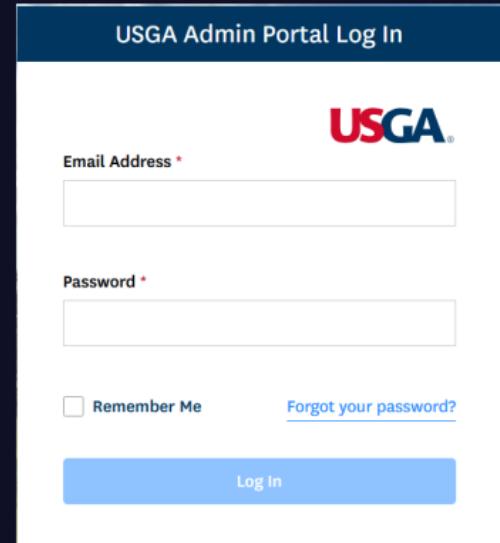
- When used **ethically and responsibly** hacking is an important skill set
- Everything we teach is used by real cybersecurity professionals every day
- The best way to stop evil hackers is to find the vulnerabilities first
- Hacking is super fun

What Is A Hacker?



Case Study - Admin Login

- Things a hacker might try:
 - "admin / password" or "admin / admin"
 - Weird Characters
(`:_-==**&^!#\$%[!`-!@!#!]■!X!3-!C-!@!H!\$!O!Z!@!X!-!G!@!-!V!@!)
 - Usernames without passwords
 - Submitting passwords from a data breach
 - Forget password 💀



The image shows a screenshot of the USGA Admin Portal Log In page. The page has a dark blue header with the text "USGA Admin Portal Log In". Below the header is the USGA logo. The main content area contains two input fields: "Email Address *" and "Password *". There is a "Remember Me" checkbox and a "Forgot your password?" link. At the bottom is a blue "Log In" button.

Case Study - Shopping Application

- What a hacker might try on a shopping website:
 - Intercept web request and submit a negative price
 - Edit a coupon code to be 100% off
 - Submit a refund for something you didn't buy
 - Try to buy 1000000000 of an item. Try to buy -1 of an item
 - Mess with other people's carts
 - Brute force coupon codes



Brenan Keller @brenankeller

30 Nov 2018

A QA engineer walks into a bar. Orders a beer. Orders 0 beers. Orders 9999999999 beers. Orders a lizard. Orders -1 beers. Orders a ueicbksjdhd.

First real customer walks in and asks where the bathroom is. The bar bursts into flames, killing everyone.

Nov 30, 2018 · 9:21 PM UTC

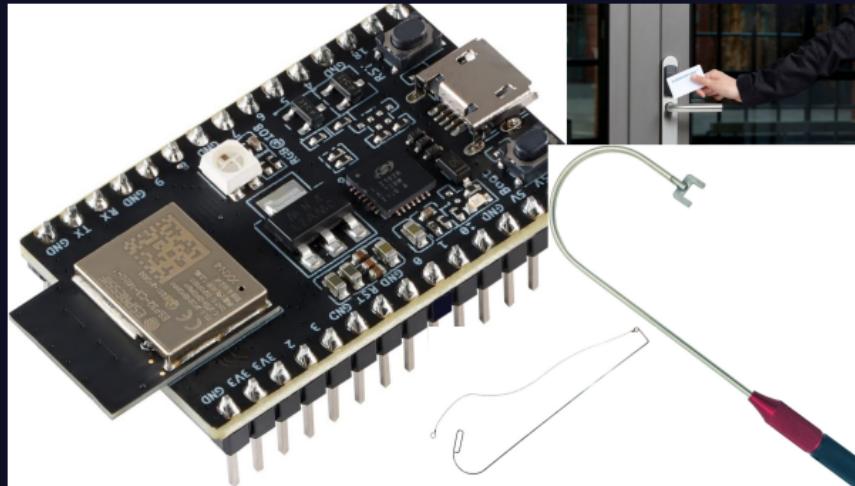
426 22,100 1,711 58,710

Case Study - UW Network

- Did you know you can scan **every publicly visible device on UW's network** in seconds?
 - <https://www.shodan.io/search?query=or%3A%22University+of+Washington%22>
 - http.html:"admin"
 - http.html:"camera"
 - http.html:"index of"
- Did you know you can find **every UW website** in seconds?
 - <https://crt.sh/?q=washington.edu&excluded=expired&group=none>
 - <https://ui.ctsearch.entrust.com/ui/ctsearchui>

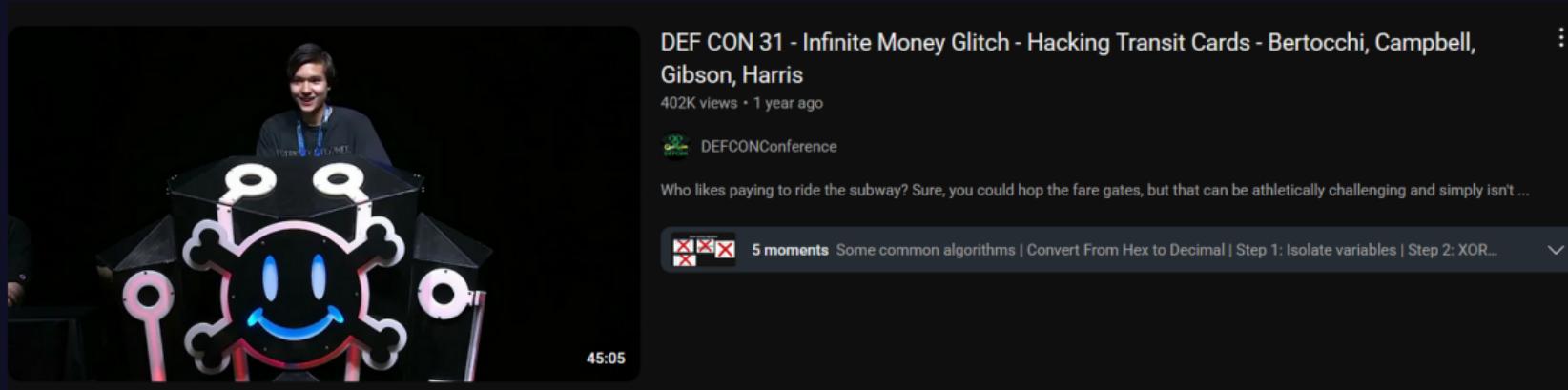
Case Study - Office Building

- What if we want something higher tech?



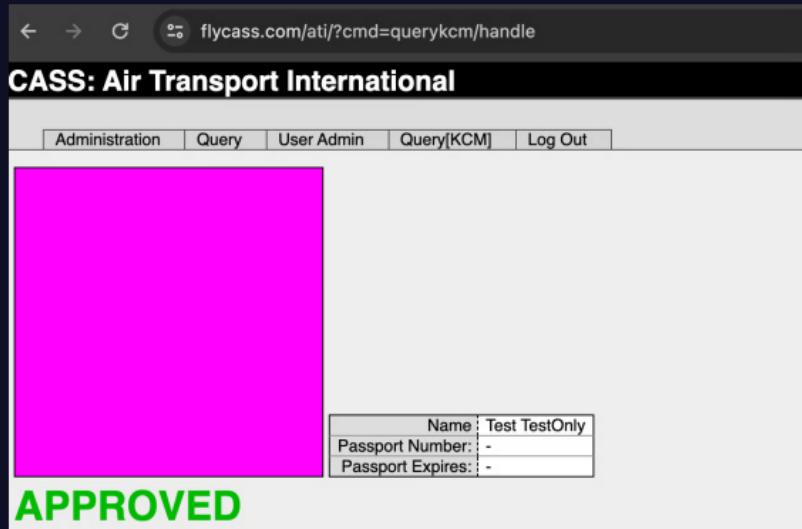
Case Study - Transit

- <https://medium.com/@bobbyrsec/operation-charlie-hacking-the-mbta-charliecard-from-2008-to-present-24ea9f0aaa38>



Case Study - Airport

- <https://ian.sh/tsa>



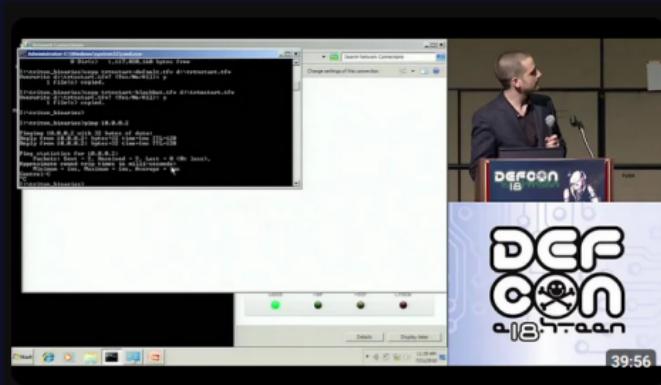
Other Cool Hacks

Hacking Millions of Modems (and Investigating Who Hacked My Modem)

Mon Jun 03 2024



Other Cool Hacks



DEF CON 18 - Barnaby Jack - Jackpotting Automated Teller Machines Redux

92K views • 11 years ago

 DEFCONConference

Barnaby Jack - Jackpotting Automated Teller Machines Redux The presentation "Jackpotting Automated Teller Machines" was ...



39:56

Other Cool Hacks



The State of log4shell in Minecraft Months Later

67K views • 3 years ago

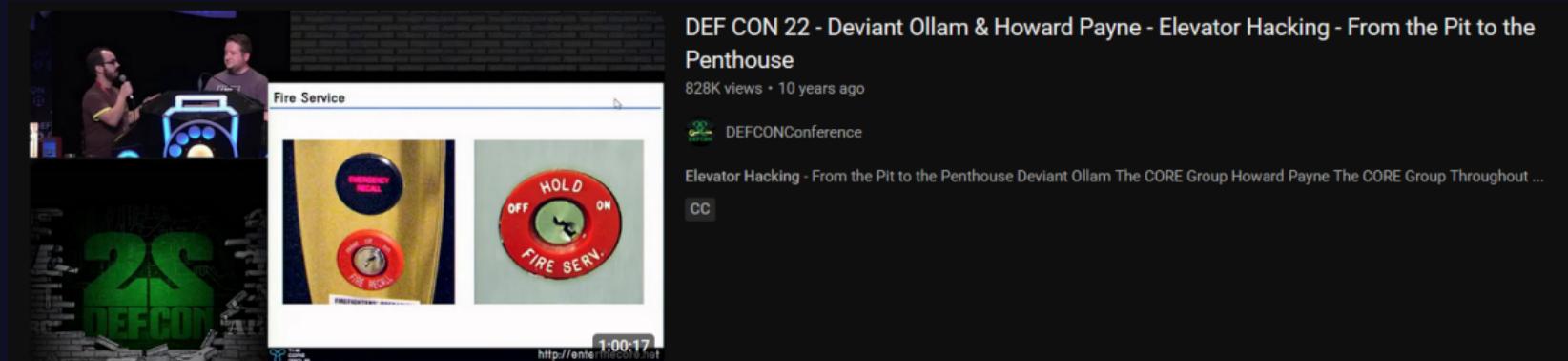
LiveOverflow

Laws are complicated and internet wide scanning is a bit of a grey area. So I wonder, what is ethical? Did I cross a line? What do ...

CC

7 chapters Intro | Let's Play | Building Spider XP Farm | Ethical Internet Scanning? | Minecraft Hosting Business |...

Other Cool Hacks



A screenshot of a DEF CON 22 presentation slide. The slide features a video feed of two speakers on the left and two images of elevator control panels on the right. The top image shows a 'Fire Service' panel with 'EMERGENCY RECAL' and 'FIRE RECAL' buttons. The bottom image shows a 'FIRE SERV.' panel with 'HOLD' and 'ON/OFF' buttons. The slide has a dark background with the DEF CON 22 logo on the left. The DEF CON Conference logo is in the top right corner. The video player interface shows '828K views • 10 years ago' and a timestamp of '1:00:17'.

DEF CON 22 - Deviant Ollam & Howard Payne - Elevator Hacking - From the Pit to the Penthouse

828K views • 10 years ago

DEFCONConference

Elevator Hacking - From the Pit to the Penthouse Deviant Ollam The CORE Group Howard Payne The CORE Group Throughout ...

CC

1:00:17

<http://enterthecore.net>

What Do You Want to Hack?

