





Welcome to Hackers!

!!! DISCLAIMER !!!





Don't do illegal shit



Welcome

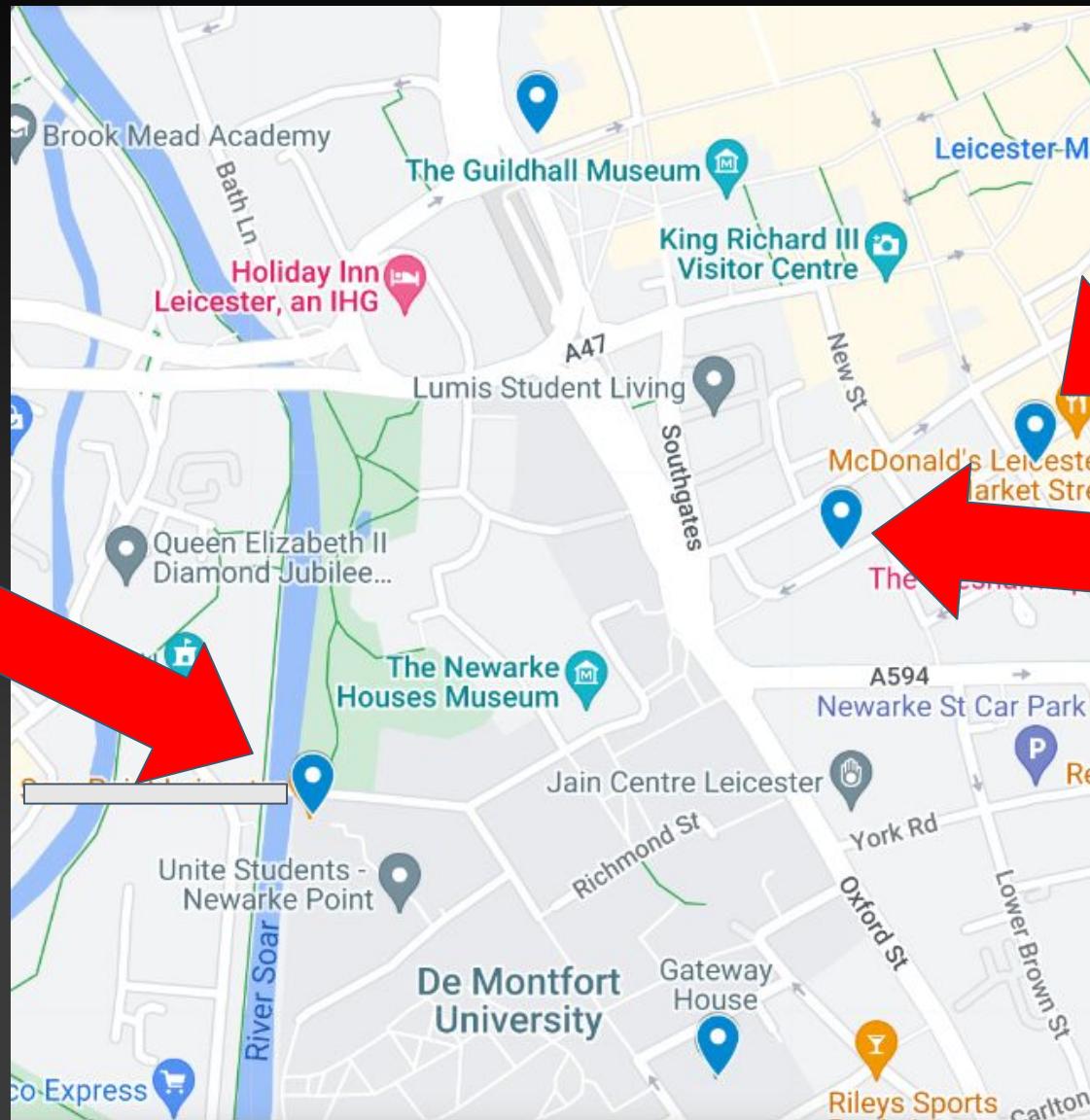
Session plan

- Introducing ourselves
- What to expect this year
- Doing a bit of basic hacking
- But most importantly...



Going to the pub!

THE
SOAR
POINT



oddbar



Meeting the Committee



Chairman: Joey

Final year - Cyber Security BSc (Hons)



- Did a placement year at Croudace Homes
- Jack Black lookalike (allegedly???)
- Bit of a generalist when it comes to security
- Prefer Blue Team/Defence side of things - OSINT, Forensics

Interests: Music (mainly Rock/Metal), Still Cider, Lord of the Rings/Star Wars



Turnernator_

Ask me about: Placements/Careers, Writeups



Secretary: Matt

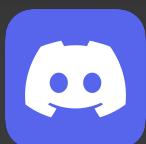
Final year - Cyber Security BSc (Hons)



- Did a placement year in the Civil Service
- More interested in DFIR, Malware Analysis, OSINT, Programming aspects of cyber
- Wanting to go into cybercrime investigations

Interests: Sleeping, Gin & Tonic, Stranger Things, TikTok addict

Ask me about: Placements/Careers, Coursework, DF, Malware



MaskedHealer61



Treasurer: Orlin

2nd year - Cyber Security BSc (Hons)



- Searching for placements
- Also wanting to go into the investigative side of CyberSec
- Has great OPSEC (see: username)

Interests: Digital Forensics, Dev boards (arduino), dumb ideas, objectively bad music



orlin

Ask me about: CTFs, Hardware projects



Wellbeing Officer: Rory

Final year - Software Engineering BSc (Hons)



- Did a placement year at Next (Technology) as a Developer
- Still very much a beginner in regards to Cyber (Will be learning with you)
- Excited for sessions on Pentesting, password cracking and reverse engineering

Interests: Motorsport/F1, Video Games, football
(unfortunately a supporter of Ipswich Town)



underscorerory Ask me about: Placements/Careers, Anything really :)))



Social Secretary: Izzy

1st Year - Nursing BSc (Hons)

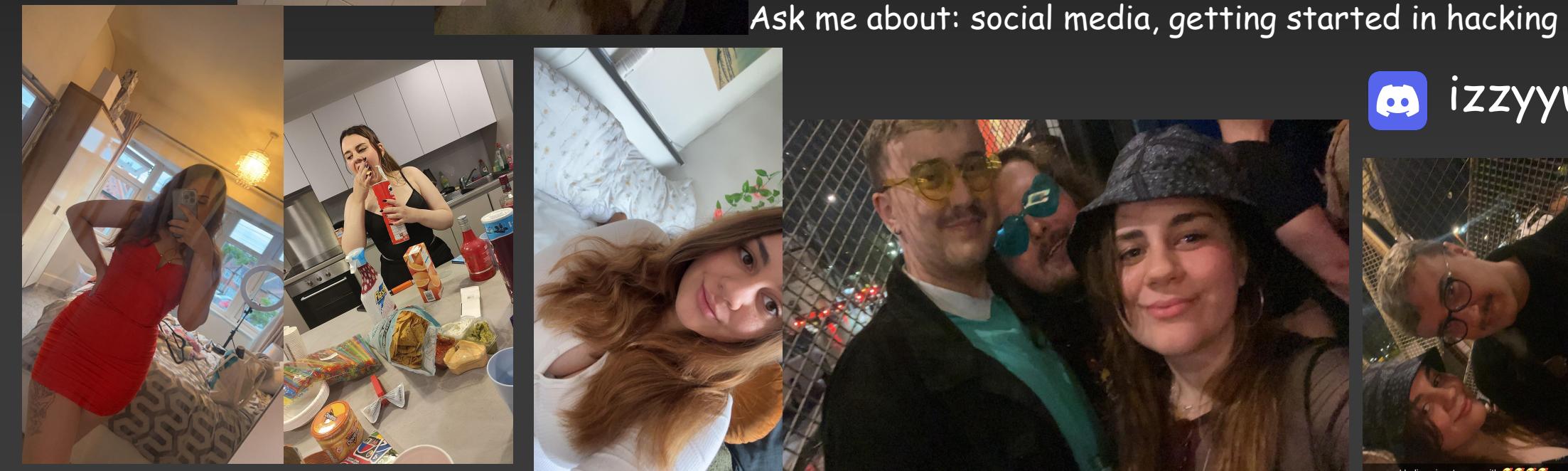
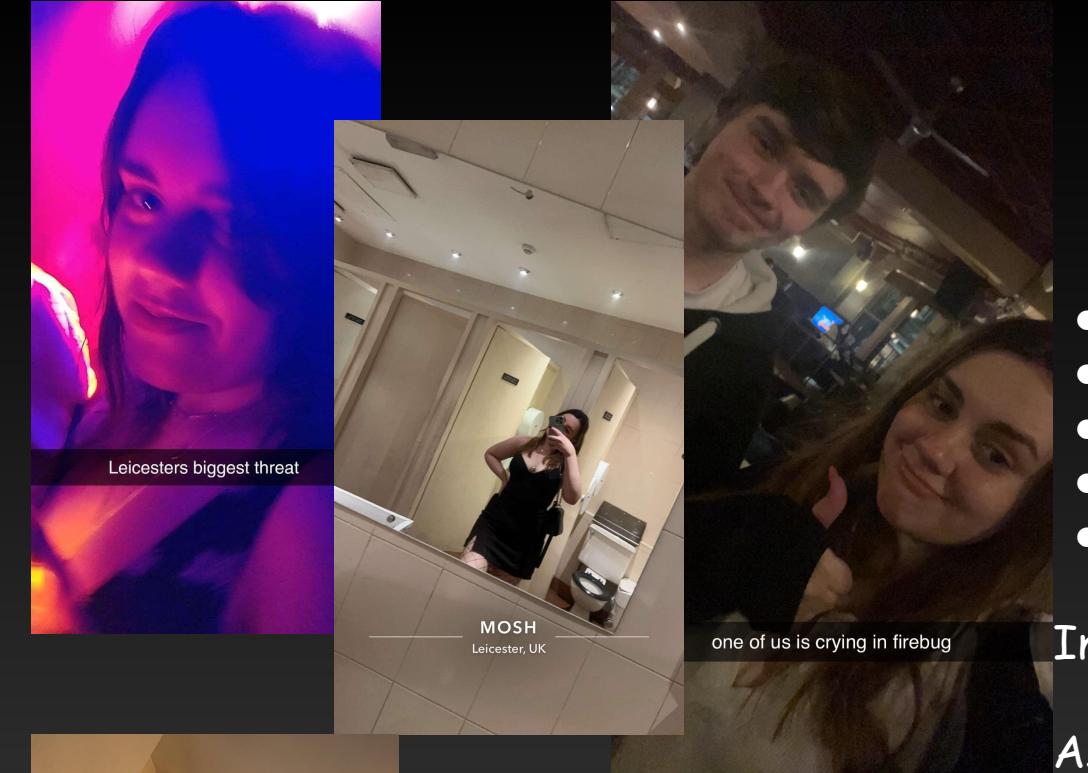
- Leicester's biggest threat
- Mosh demon
- Absolute hacking novice
- Second time doing first year
- No one has any clue why I'm here.... But I am!

Interests: cats, going out drinking, reading

Ask me about: social media, getting started in hacking



izzyywizzy



can't believe i met sam smith 🥺🥺🥺

Fire Safety



EVACUATION ACTION

GATEWAY HOUSE
Gateway Street, Leicester LE2 7DP

In Case of Fire

The person discovering a fire should:

1. Raise the alarm.
2. Phone 9-999 to call the Fire Brigade.
3. Leave the building.
4. Only attempt to put out the fire if safe to do so.

On Hearing the Alarm:

1. Leave the building by the nearest exit route.
2. Close the doors behind you.
3. Report to assembly point.

Word of Mouth Evacuation: Bomb Alerts

1. Collect bags and personal belongings.
2. Turn off equipment.
3. Leave the building. Do not return until authorised to do so.

If unable to use the stairs, wait in the Refuge or lobby by the staircase for rescue

Assembly Points

Fire: Gateway Street by Kimberlin Library and Eric Wood
Bombs: Castle Gardens

Sept 2008 DMU OH&S Department



What to expect
this year?



Weekly practical sessions

OSINT challenges

Socials after every session

Cyber Security/IT careers advice

Guest speakers

CV advice

CTF competitions

CTF Club

Placement advice



Potential Sessions

OSINT

Phishing

Wi-Fi Hacking

Using AI

Lockpicking

Password
Cracking

Steganography

SOCs

Web App Hacking

Malware Analysis

Advent of Cyber
(christmas)





Let's get hacking!!!



What is ethical hacking?



An authorized attempt to gain unauthorized access to a computer system, application, or data.

[Synopsys](#)



What counts as hacking?

Logic Bombs

Cross-site request forgery (XSRF)

Evil Twin Attack

Malware

Cross-Site Scripting (XSS)

Zero-Day Exploits

Phishing

Password Cracking

Ransomware

Network Enumeration

Denial of Service (DDoS)

Man-in-the-Middle Attack

Packet Sniffing

Keylogging

Social Engineering

Brute Forcing

Rootkits

Wireless Network Hacking

Vulnerability Scanning

SQL Injection

Just
to
name
a few!



Web Directory Enumeration

- Enumeration = listing information about a target
- Searching for 'hidden' pages on a website

`http://example.com`

`http://example.com/login`

`http://example.com/wp-admin`

`http://example.com/images`

- This is a simple example, in reality there will be many more pages, so we use tools to automate the searching!



Gobuster

- Tool which brute forces all the hundreds of possible pages a website could have



TryHackMe

TryHackMe is an (awesome) online platform with hundreds of 'rooms' on different cyber security concepts.

Modules

Modules are made up of bite-sized labs



How The Web Works

To become a better hacker it's vital to understand the underlying functions of the world wide web and what makes it work.



Linux Fundamentals

Many servers and security tools use Linux. Learn how to use the Linux operating system, a critical skill in cyber security.



Network Exploitation Basics

Understand, enumerate and attack various networking services in real-world environments.



Web Hacking Fundamentals

Understand the core security issues with web applications, and learn how to exploit them using industry tools and techniques.



Cryptography

Cryptography is essential in security. Learn how its used to preserve integrity and confidentiality of sensitive information.



Windows Exploitation Basics

Hacking Windows is often daunting. Grasp the fundamentals of core Windows concepts and Active Directory vulnerabilities.



Shells and Privilege Escalation

Once you have initial access on a machine, learn how to escalate your account privileges to root.



Basic Computer Exploitation

Strengthen your skills by exploiting a range of different applications and services, from networking to web to privilege escalation.



Threat and Vulnerability Management

Identify how attackers are developing their techniques to use in your defensive strategy.



Security Operations & Monitoring

Learn how to configure and utilise tooling to ensure that suspicious activity is quickly identified and dealt with in your environment.



Threat Emulation

The best way to understand how attackers work is to get hands on experience with their techniques.



Incident Response and Forensics

Incidents are inevitable. Learn how to identify and respond to them.



Network Fundamentals

Learn the core concepts of how computers communicate with each other and types of network weaknesses.



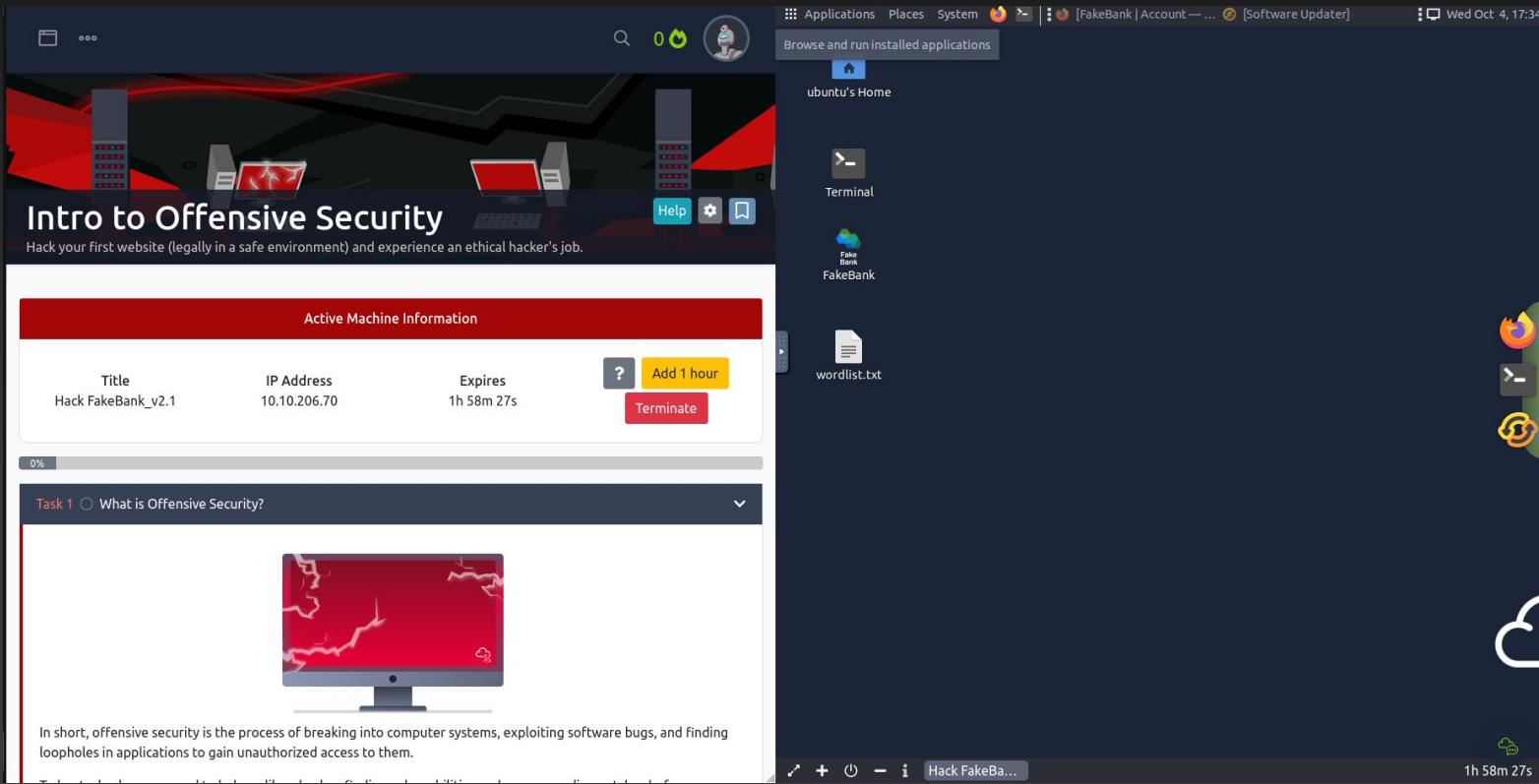
Windows Fundamentals

Get hands-on access to Windows and its security controls. These basics will help you in identifying, exploiting and defending Windows.



Attack Box

- An in-browser virtual machine
- Allows you to hack with minimal fuss
- Can be a bit slow but fine for the purposes of today's session



Today's Box...



Introduction to Offensive Security

<https://tryhackme.com/room/introtooffensivesecurity>

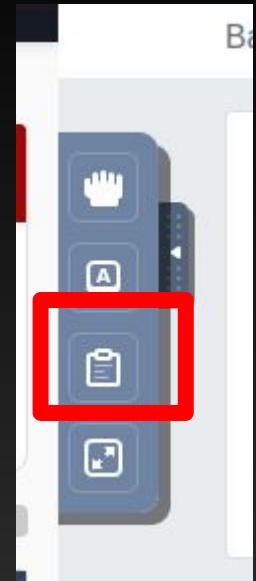


Introduction to Offensive Security

<https://tryhackme.com/room/introtooffensivesecurity>

Tips:

- You have to use the Clipboard tool to copy and paste to AttackBox
- To paste to a terminal, **Ctrl+Shift+V**



Questions?
Come chat to us!



Pub time!

