



Bournvita

ETHICAL HACKING



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WHAT IS ETHICAL HACKING?

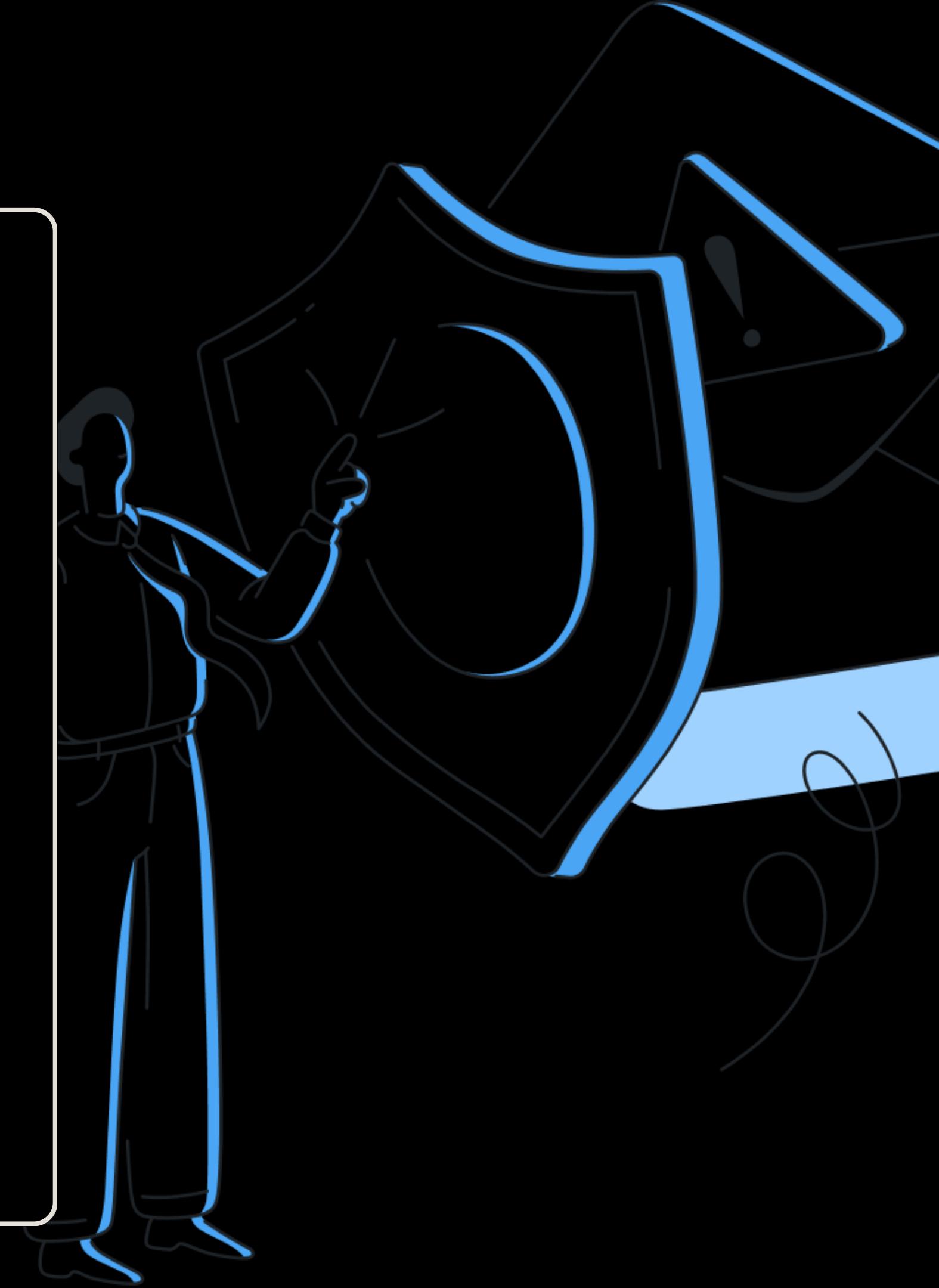
Definition: Ethical hacking involves testing a computer system, network, or web application to find security vulnerabilities that an attacker could exploit.

Purpose: To improve security by identifying and fixing vulnerabilities before malicious hackers can exploit them.

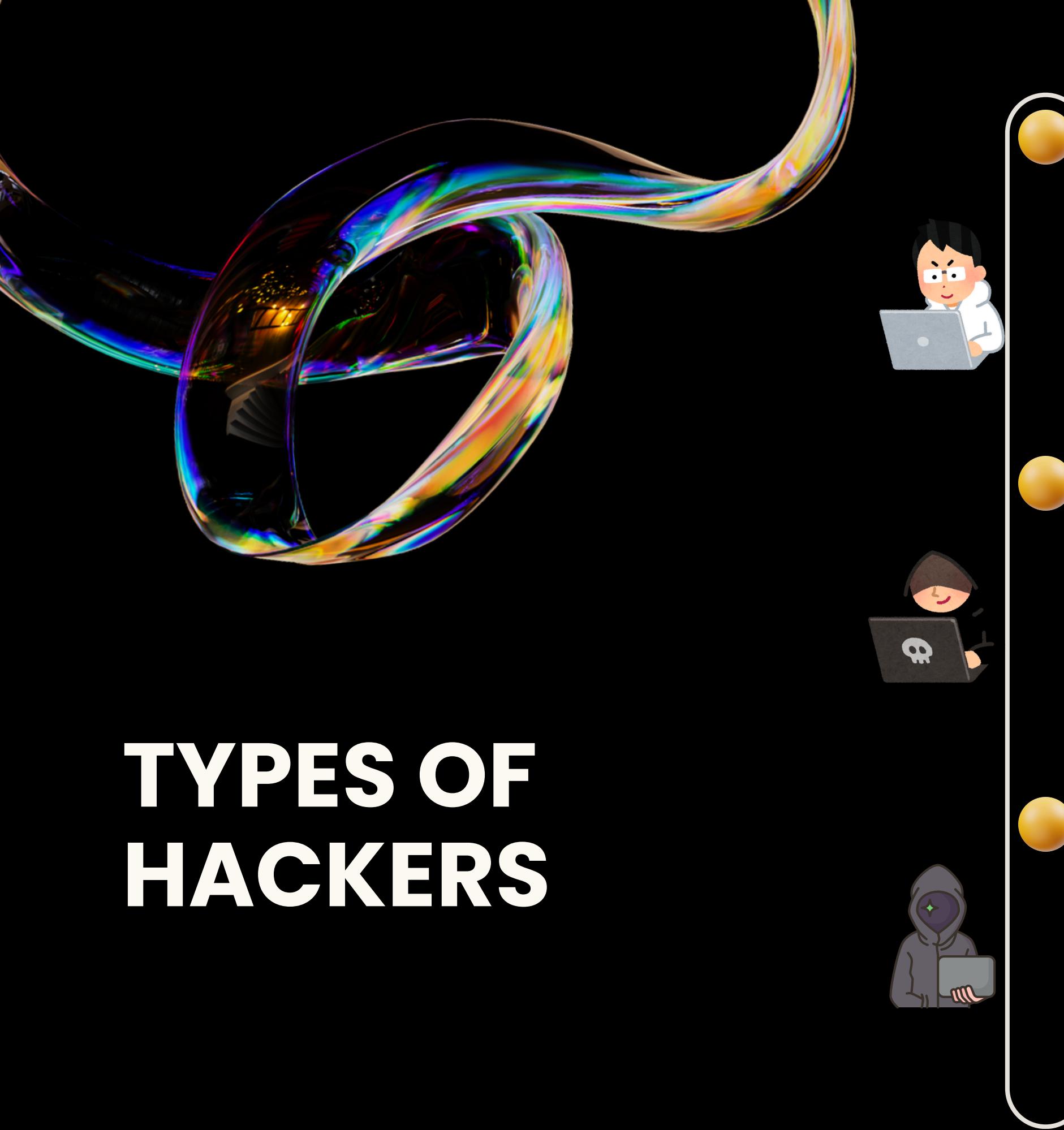


IMPORTANCE OF ETHICAL HACKING

- Protects organizations from cyber threats
- Helps in compliance with security standards and regulations
- Enhances the security of user data
- Builds trust with customers and stakeholders



TYPES OF HACKERS



White Hat Hackers

A white hat is an ethical security hacker. Ethical hacking is a term meant to imply a broader category than just penetration testing. Under the owner's consent, white-hat hackers aim to identify any vulnerabilities or security issues the current system has.

Black Hat Hackers

A black hat is a computer hacker who violates laws or ethical standards for nefarious purposes, such as cybercrime, cyberwarfare, or malice. These acts can range from piracy to identity theft. A Black hat is often referred to as a "cracker".

Gray Hat Hackers

A grey hat is a computer hacker or computer security expert who may sometimes violate laws or typical ethical standards, but usually does not have the malicious intent typical of a black hat hacker. The term came into use in the late 1990s, and was derived from the concepts of "white hat" and "black hat" hackers.



ETHICAL HACKING METHODOLOGIES



Reconnaissance

Gathering information about the target.



Scanning

Identifying open ports and services.



Gaining Access

Exploiting vulnerabilities to enter the system.



Maintaining Access

Ensuring continued access to the target.



Covering Tracks

Removing evidence of hacking activity.

COMMON TOOLS USED IN ETHICAL HACKING

NMAP

Network scanner for discovering hosts and services.

METASPLOIT

Framework for developing and executing exploit code.

WIRESHARK

Network protocol analyzer for capturing and inspecting packets.

PR SUPPORT

Password cracking tool.

BURP SUITE

Web vulnerability scanner.

ETHICAL HACKING CERTIFICATIONS

Certified Ethical Hacker (CEH): Offered by EC-Council.

Offensive Security Certified Professional (OSCP): Offered by Offensive Security.

GIAC Penetration Tester (GPEN): Offered by Global Information Assurance Certification (GIAC).

CompTIA PenTest+: Offered by CompTIA.

CompTIA PenTest+

GIAC Penetration Tester (GPEN):

Offensive Security Certified Professional (OSCP):

Certified Ethical Hacker (CEH):

LEGAL AND ETHICAL CONSIDERATIONS

Permission

Always obtain explicit permission before hacking

Disclosure

Report vulnerabilities responsibly.



Laws

Understand and adhere to laws and regulations.

Ethical Conduct

Maintain integrity and professionalism.

CAREER OPPORTUNITIES IN ETHICAL HACKING

- Penetration Tester
- Security Analyst
- Security Consultant
- Incident Responder
- Security Engineer



CHALLENGES AND FUTURE OF ETHICAL HACKING



2021

- Increased use of AI in ethical hacking tools for threat detection and vulnerability assessment.
- Significant rise in demand for ethical hackers due to the surge in cyber-attacks during the COVID-19 pandemic.

2023

- Emergence of zero-trust security models, emphasizing continuous verification of user identity and device integrity.
- Growth in ethical hacking certifications, such as CEH and OSCP, highlighting the importance of professional training.

Present

- Increased focus on cloud security and securing remote work environments.
- Advancements in automated ethical hacking tools for more efficient vulnerability testing.

Future

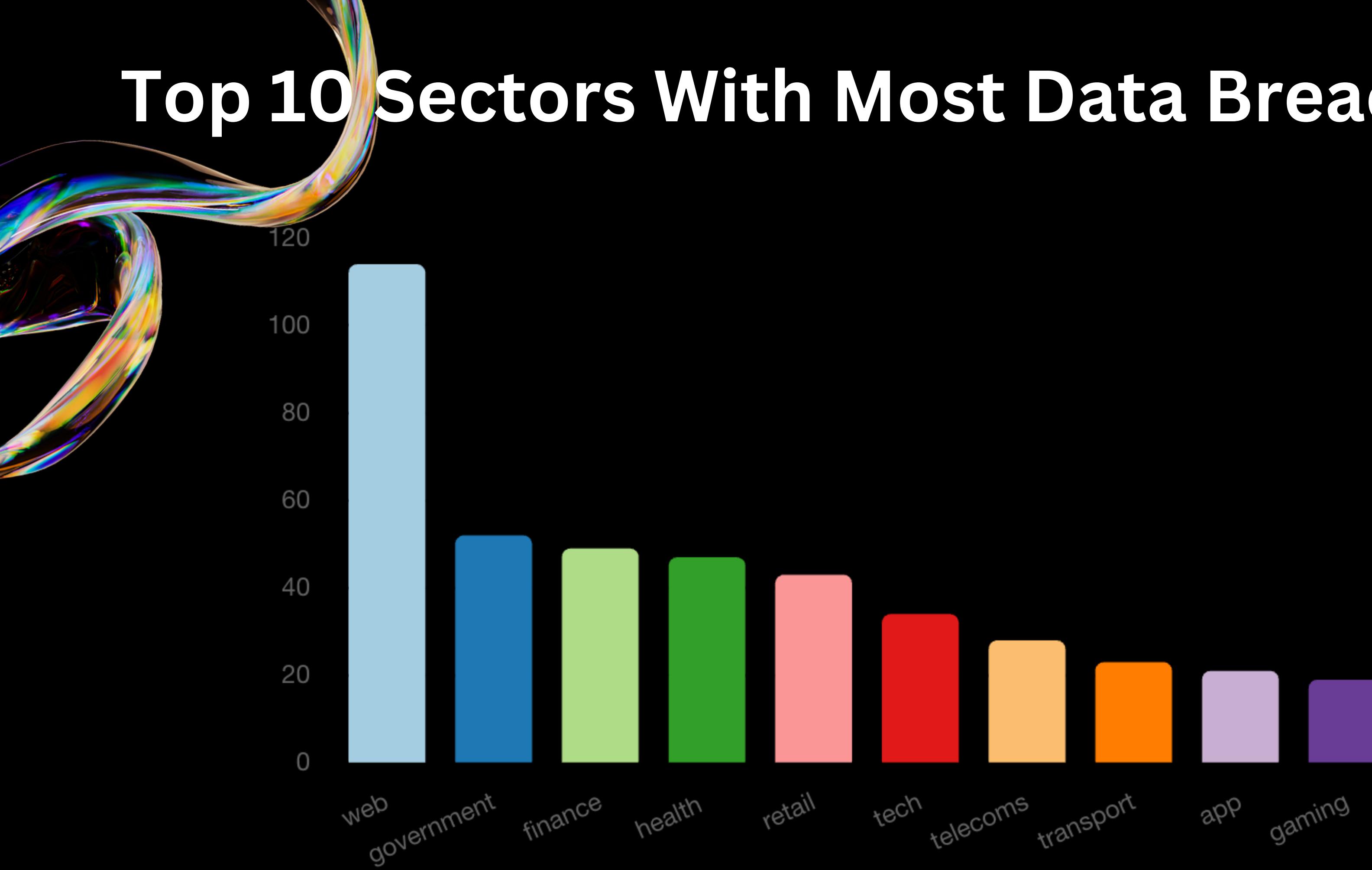
- Expansion of ethical hacking into IoT and smart devices to counteract growing vulnerabilities.
- Greater collaboration between ethical hackers and governments to strengthen national cybersecurity frameworks.



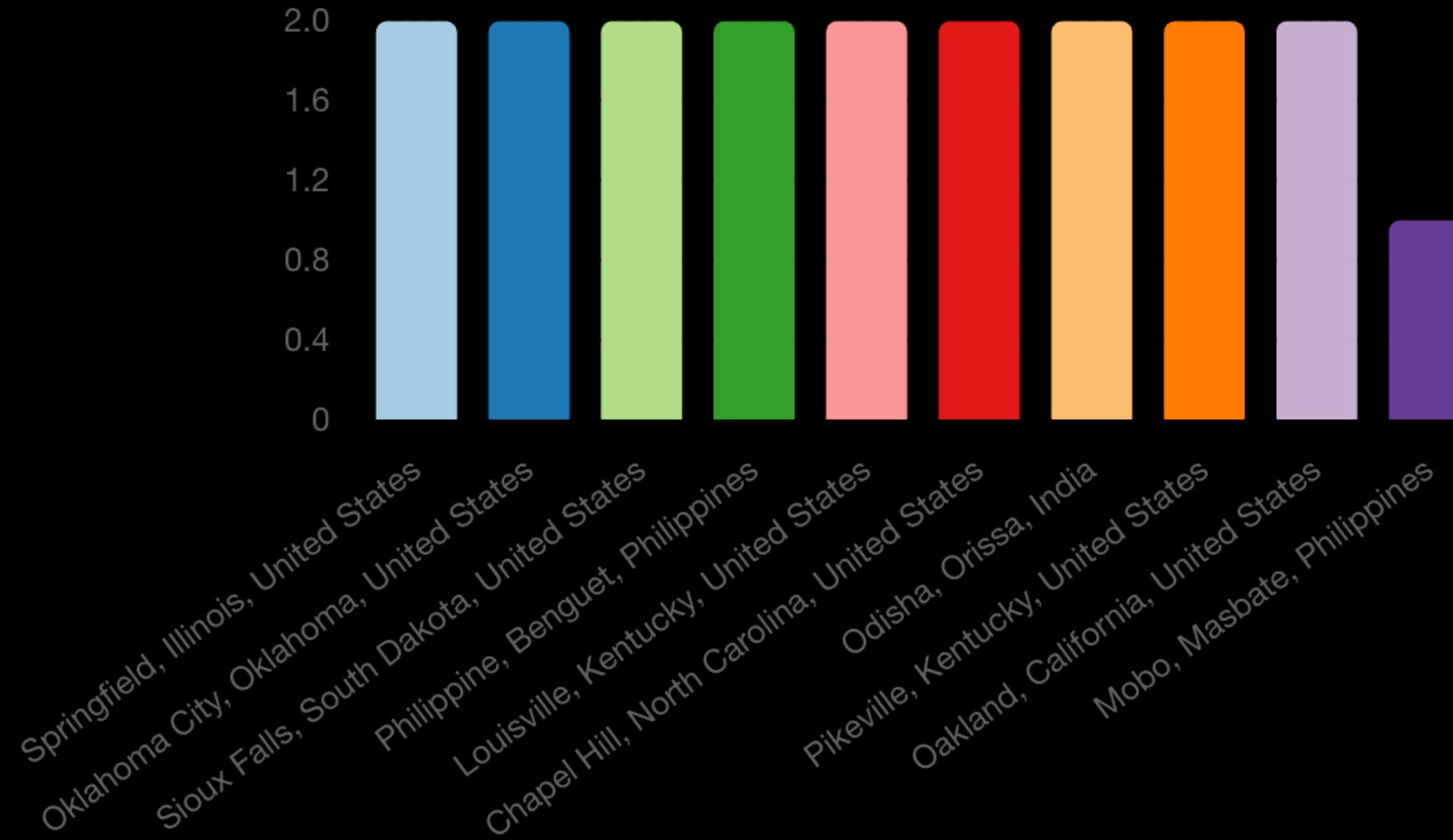
The background features a dynamic, abstract design of flowing, translucent liquid streaks against a solid black background. The streaks exhibit a vibrant, iridescent color palette, including shades of blue, green, yellow, and orange, which are characteristic of oil or water droplets in motion. They curve elegantly across the frame, creating a sense of fluidity and depth.

DATA VISUALIZING

Top 10 Sectors With Most Data Breaches

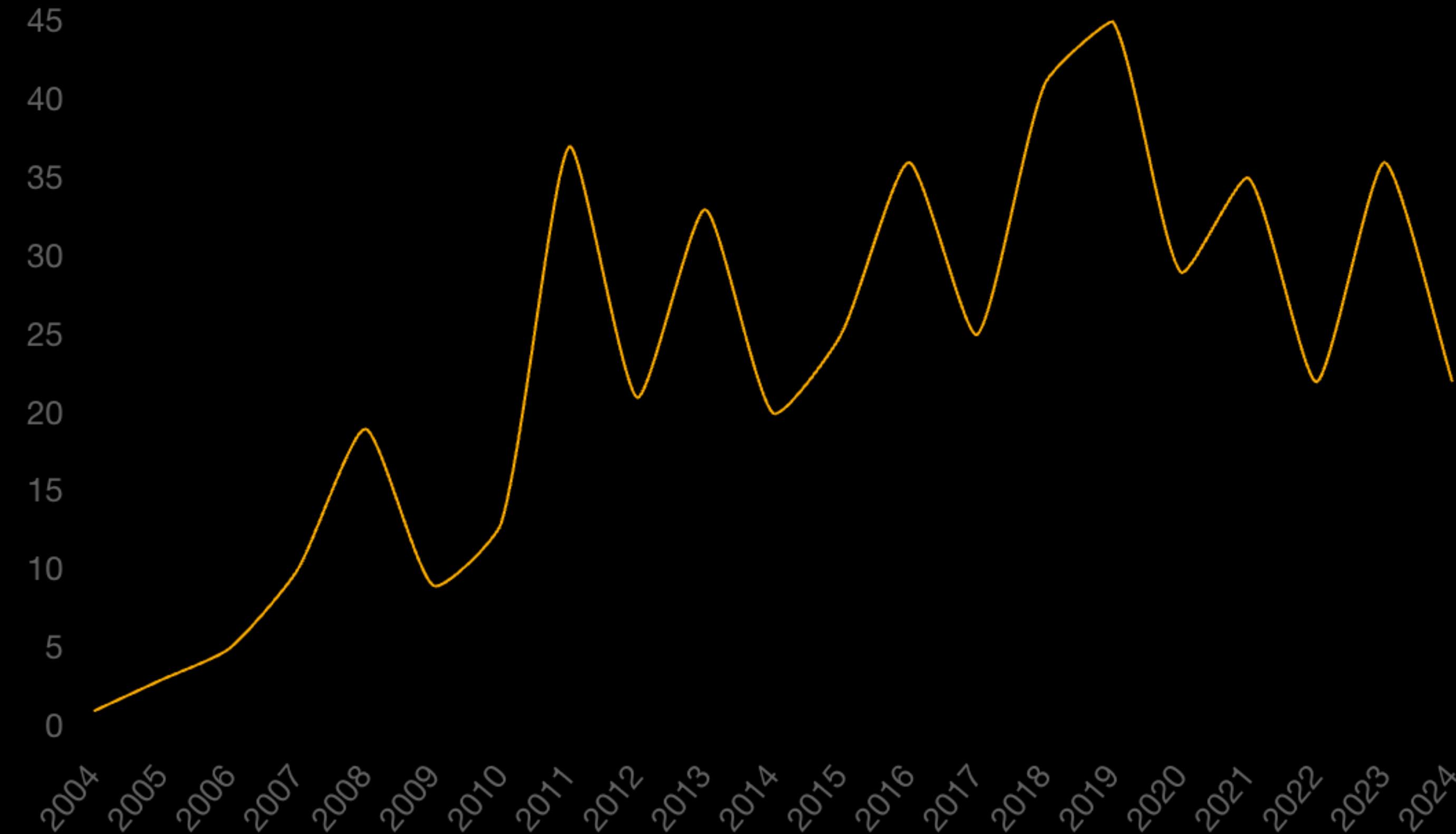


Top 10 Locations With Most Ethical Hacking Incidents

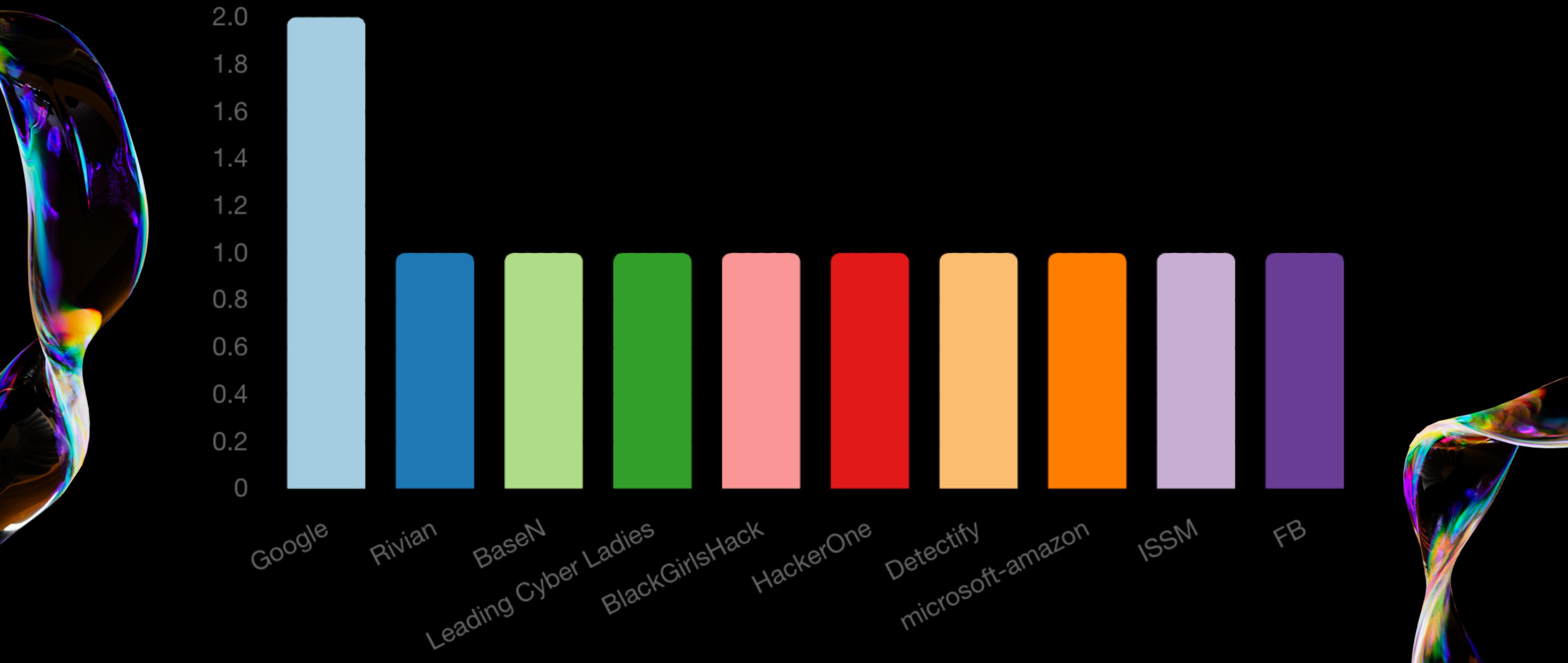




Trend Of Data Breaches Over Time



Top Ten Companies With Most Ethical Hackers



TEAM BOURNVITA



CUTIE PANDA

Hacker 1



-RINNNNN

Hacker 2



LIMITED

Hacker 3



NUSS

Hacker 4





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THANK YOU

for your time and attention

Presentation by Team Bournvita



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