THE EMUS

Network Security- Python-Base Script Exploitation with Hacky-Pi."

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WHY WE CHOSE TO PWN YOU?!

❖ Help to provide insight into the mind of a hacker

❖ Show how an exploit can be conducted on a system/network in seconds.

❖ Display the importance of effectively mitigating issues

BECOMING A "HACKER" IS ACCESSIBLE TO EVERYONE!

Internet is a magical world where you can find answers....... most of the time!

❖   YouTube Tutorials

❖   GitHub Repositories and more....

HACKY_PI: PYTHON-BASE FOR USB DEVICE MANIPULATION

❖ **Introduction to Hacky Pi and USB Device**: We'll begin by introducing Hacky Pi, a powerful platform that enables Python scripts to interact with USB devices. We'll explore how Hacky Pi can be used

❖ **Crafting a Python USB Script**:We'll demonstrate how to write a Python script using Hacky Pi to interact with USB devices. This could involve sending commands, collecting data, or emulating specific device behaviors.

❖ **Hands-On Demonstration:** We'll perform a live demonstration, executing a Python script via Hacky Pi to interact with a USB device in real-time.

RESEARCH APPROACHES

1. Choose Target

❖ Study Hacks Pi capabilities for USB data extraction tasks.

❖ Understand interactions with USB devices via Hacky Pi.

RESEARCH APPROACHES

2. Develop Python Script

❖ Use Hacky Pi for Wifi access script development.
❖ Automate Outlook tasks with Python-based script.

RESEARCH APPROACHES

3. Research Wi-Fi Access Methods

❖ Investigate how to access Wifi info on Windows.
❖ Extract Wifi details using Hacky Pi and Python.

LET'S START THE LIVE DEMONSTRATION

"This demonstration is for educational purposes only and is conducted in an authorized environment."
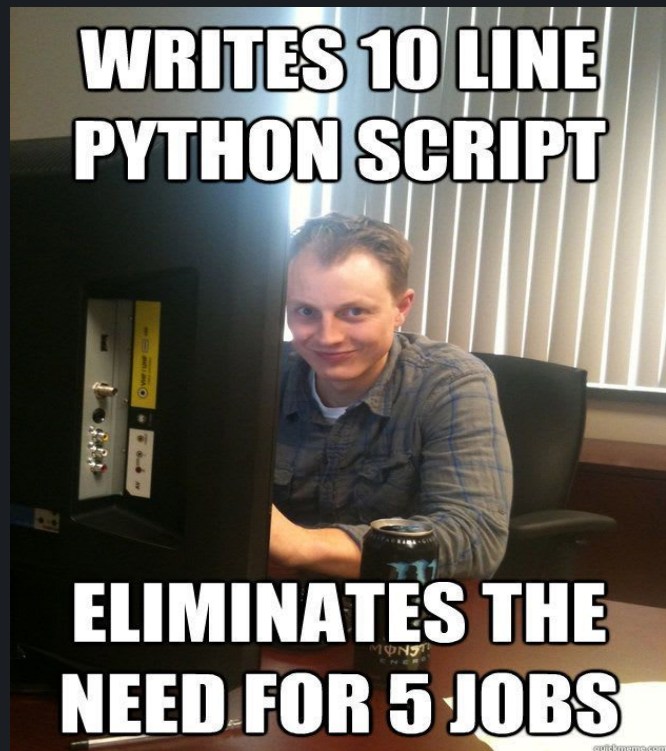
HOW CAN WE USE THIS EXPLOIT?

Ethical Use:

- ❖ Penetration Testing and Security Assessments
- ❖ Security Awareness Training
- ❖ Research and Education

Illegal Use:

- ❖ Unauthorized Access and Data Theft
- ❖ Malware Distribution
- ❖ Identity Theft and Fraud

UNDERSTANDING SCRIPT-BASED EXPLOITS:

Scripting involves writing sequences of commands or instructions that can be interpreted or executed by a computer system, using programming logic to automate tasks or potentially bypass security controls.

"SECURITY IS KEY:
Keep Your Systems Updated"

The experts advise:

Use strong passwords, change them regularly, and avoid using the same password.

In reality!!!

Hacker : 'I have all your passwords.'
Us: 'OMG! Thank you! What are they?'"
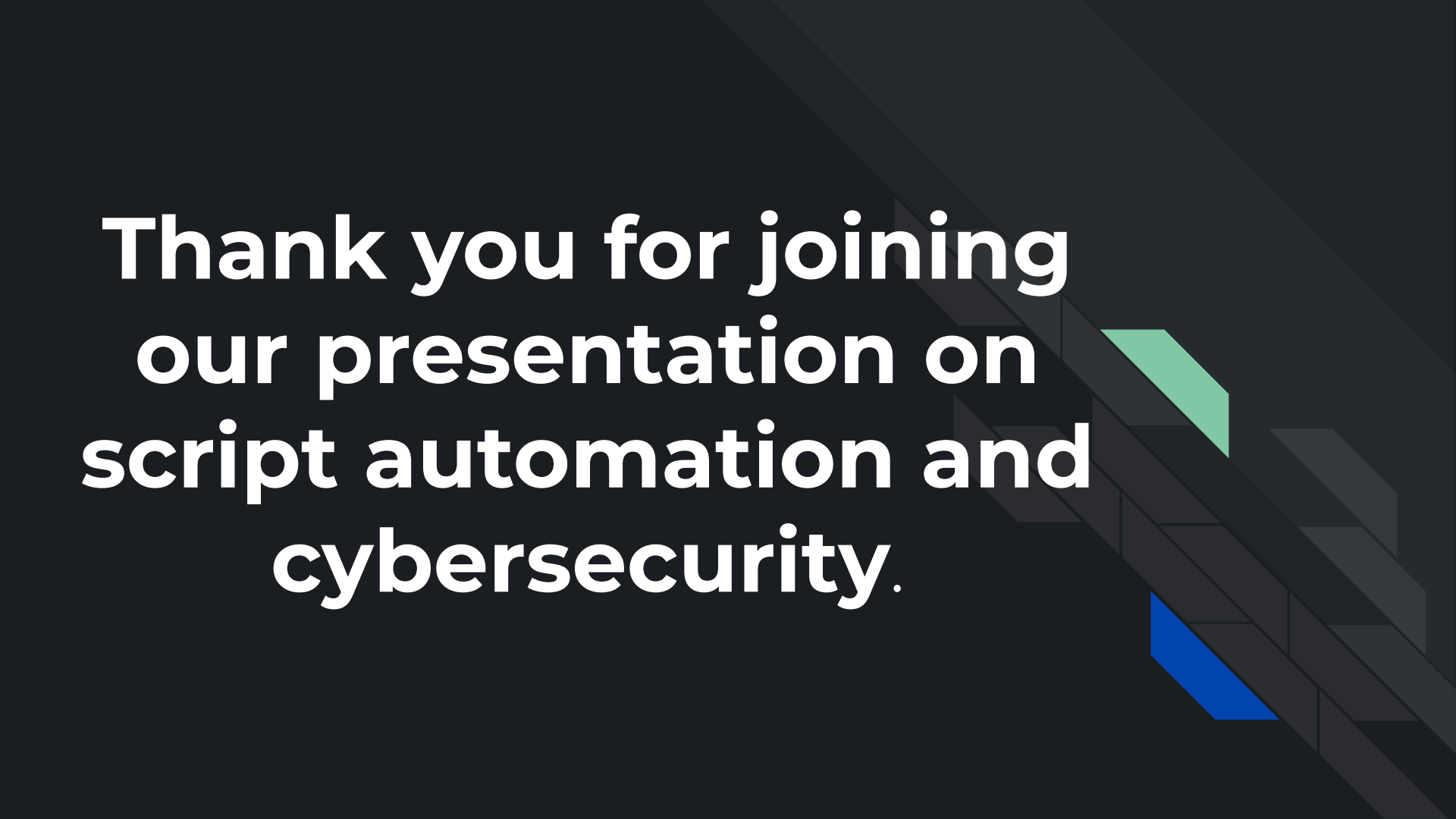
MORE WAYS TO OUTSMART THE SNEAKY STUFF

❖**Encrypt Critical Data:** Use encryption to protect sensitive information so that even if a breach occurs, the data remains inaccessible to unauthorized parties.

❖**Firewall and Antivirus:** Use firewall rules and antivirus software to detect and block malicious scripts and payloads.

❖**Access Controls:** Implement privilege access policies to limit user permissions and reduce the impact of successful exploits.

❖**Backup and Recovery:** Regularly backup critical data and have a recovery plan in place to restore systems in case of compromise.

IN CONCLUSION

Our presentation showcased the power of Python script automation on Windows, leveraging Hacky Pi's capabilities. This research emphasizes the vital role of scripting tools in cybersecurity, enabling rapid and effective data extraction.

Thank you for joining our presentation on script automation and cybersecurity.

ANY QUESTIONS? YES?

JUST USE GOOGLE