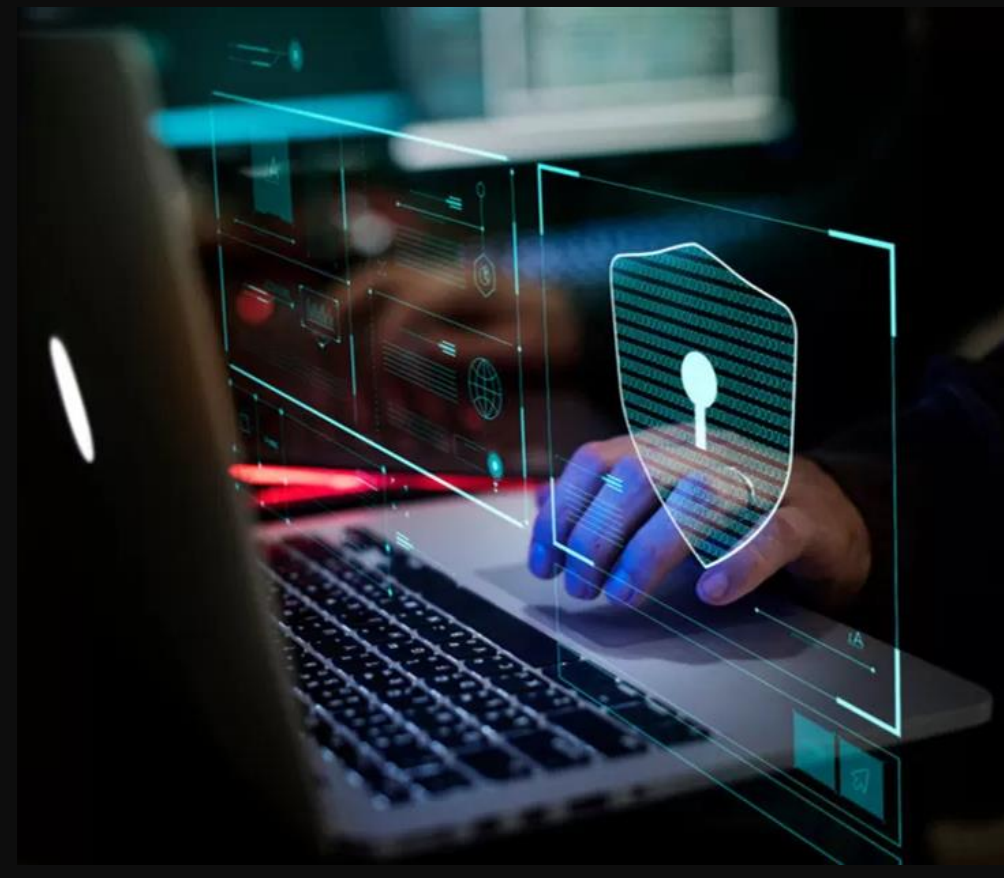


ETTCS: Empowering Teachers to Trigger Cybersecurity at School

Νεκτάριος - Φράνκο Καρόλι
Software Engineer
DG-06 Government Services
NetCompany – Intrasoft



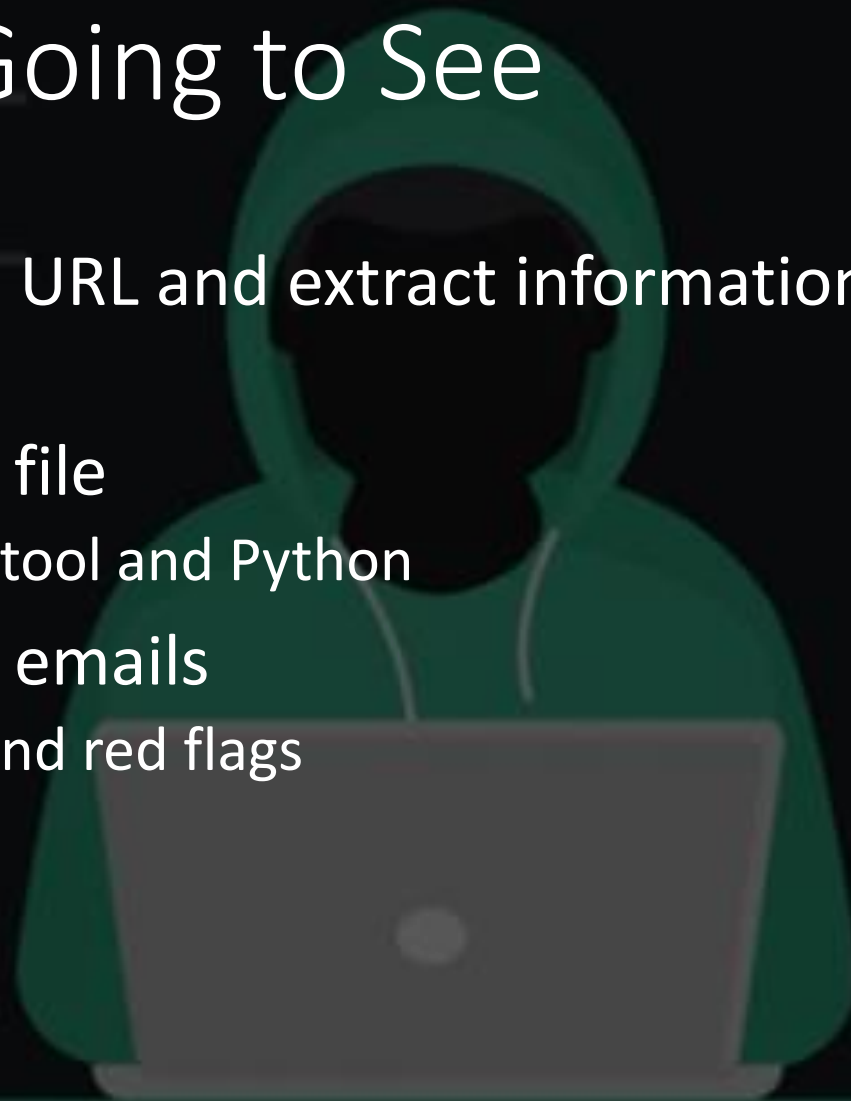
Τμήμα
Ψηφιακών
Συστημάτων

netcompany

intrasoft

What We're Going to See

- Sending a malicious URL and extract information
 - OS, Location, etc.
- Cracking .zip locked file
 - Using OSINT, CUPP tool and Python
- Analyzing malicious emails
 - Looking for green and red flags





Attack #1

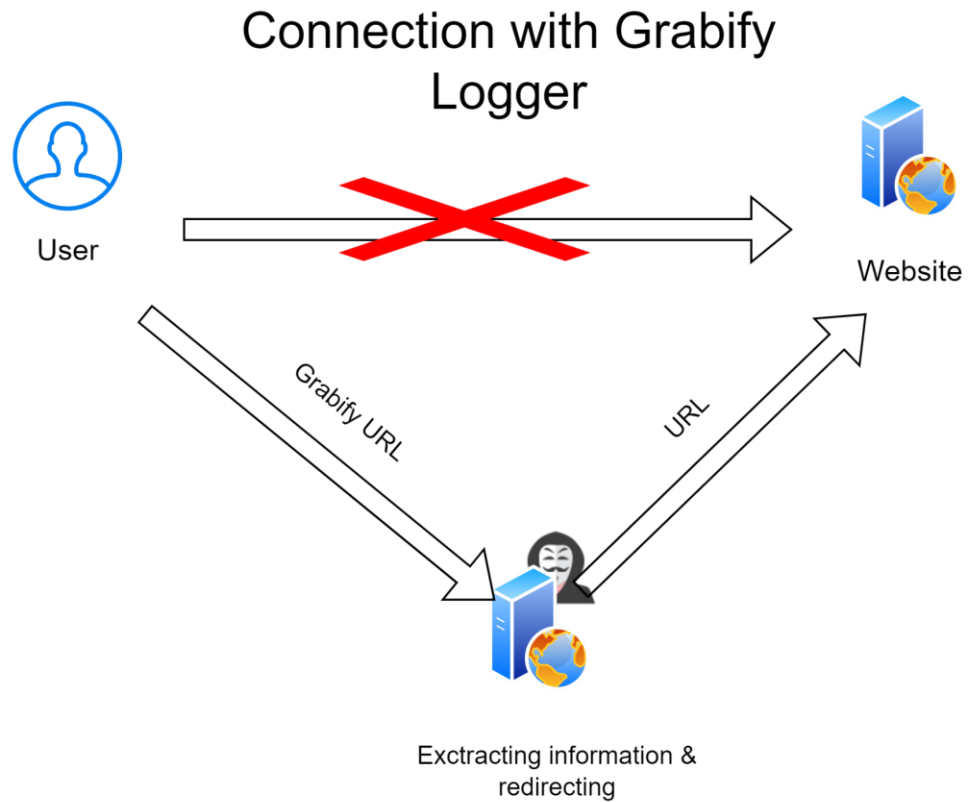
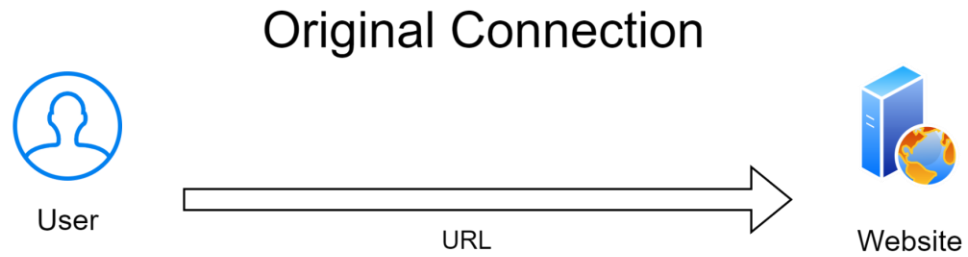


IP-Tracker.org



- Tools:
 1. Grabify Logger (<https://grabify.link/>)
 2. IP Tracker (<https://www.ip-tracker.org/>)
- Requirements:
 - Internet
 - Browser





URL Redirection

Countermeasures

- VPN
- URL Redirect Checker



Attack #2

- Requirement:
 - OSINT Tool
 - CUPP Application
 - Compression software
 - Python



Countermeasures

TIME IT TAKES A HACKER TO BRUTE FORCE YOUR PASSWORD

| Number of Characters | Numbers Only | Lowercase Letters | Upper and Lowercase Letters | Numbers, Upper and Lowercase Letters | Numbers, Upper and Lowercase Letters, Symbols |
|----------------------|--------------|-------------------|-----------------------------|--------------------------------------|---|
| 4 | Instantly | Instantly | Instantly | Instantly | Instantly |
| 5 | Instantly | Instantly | Instantly | Instantly | Instantly |
| 6 | Instantly | Instantly | Instantly | 1 sec | 5 secs |
| 7 | Instantly | Instantly | 25 secs | 1 min | 6 mins |
| 8 | Instantly | 5 secs | 22 mins | 1 hour | 8 hours |
| 9 | Instantly | 2 mins | 19 hours | 3 days | 3 weeks |
| 10 | Instantly | 58 mins | 1 month | 7 months | 5 years |
| 11 | 2 secs | 1 day | 5 years | 41 years | 400 years |
| 12 | 25 secs | 3 weeks | 300 years | 2k years | 34k years |
| 13 | 4 mins | 1 year | 16k years | 100k years | 2m years |
| 14 | 41 mins | 51 years | 800k years | 9m years | 200m years |
| 15 | 6 hours | 1k years | 43m years | 600m years | 15 bn years |
| 16 | 2 days | 34k years | 2bn years | 37bn years | 1tn years |
| 17 | 4 weeks | 800k years | 100bn years | 2tn years | 93tn years |
| 18 | 9 months | 23m years | 6tn years | 100 tn years | 7qd years |



-Data sourced from [HowSecureisMyPassword.net](https://www.howsecureismypassword.net)

Attack #3

- Red Flags:
 - Mismatched or Suspicious Sender Email Address
 - Urgent or Threatening Language
 - Requests for Personal Information or Passwords
 - Mismatched URLs or Links
 - Generic Greetings
-

19:06 📶 🔒 📶 🔒 59

← 🗑️ 📧 ⋮

επιβεβαιώστε την επιστροφή φόρου σας ☆

 GovGr 18:50
προς εγώ ▾ ⏪ ⋮

 Πάντα εμφ. εικ. από αυτόν τον αποστολέα

 BETA
govgr

Σας γράφω για να σας ενημερώσω ότι η φορολογική σας δήλωση έχει υπολογιστεί από την Ελληνική Φορολογική Υπηρεσία και δικαιούστε επιστροφή φόρου ύψους 634,13 ευρώ.
Παρακαλούμε κάντε κλικ στον παρακάτω σύνδεσμο για να επιβεβαιώσετε τα στοιχεία σας προτού μπορέσουμε να επεξεργαστούμε την επιστροφή σας, διότι πρέπει να βεβαιωθούμε ότι η επιστροφή πιστώνεται στο σωστό λογαριασμό.
επιβεβαιώστε τώρα

[επιβεβαιώστε τώρα](#)

Μόλις λάβουμε τα απαραίτητα στοιχεία από εσάς, θα ξεκινήσουμε την επεξεργασία της επιστροφής σας. Λάβετε υπόψη σας ότι μπορεί να χρειαστούν έως και 2 ημέρες για να εμφανιστούν τα χρήματα στο λογαριασμό σας.

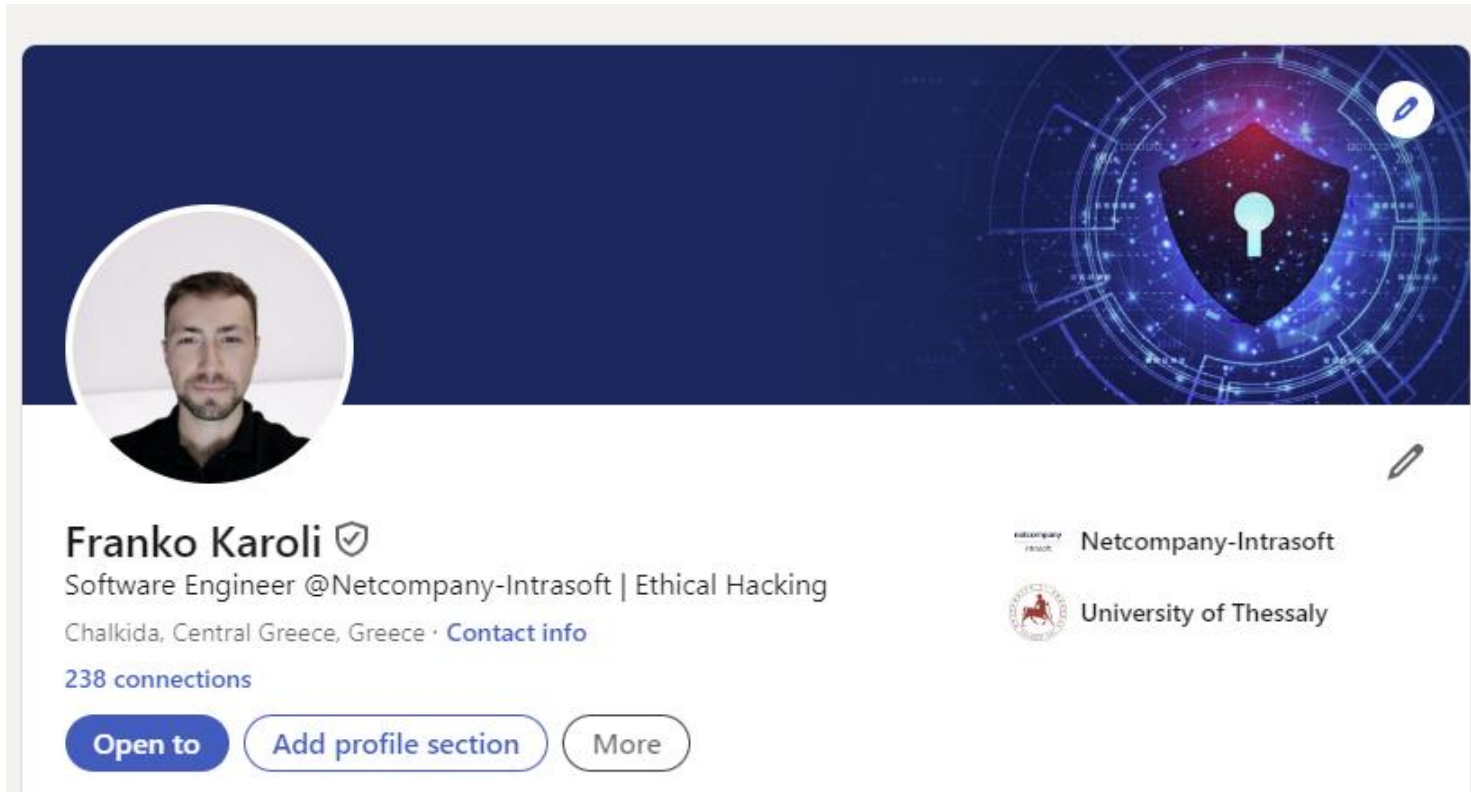


Countermeasures

- Green Flags:
 - Personalized Greeting
 - Correct Grammar and Spelling
 - Consistent Email Address and Domain
 - Expected Information
 - Contact Information and Support
- Cyber security awareness





Thank you for
your attention



LinkedIn profile of Franko Karoli. The profile picture shows a man with a beard. The background image features a shield with a keyhole in the center, surrounded by a glowing blue and purple digital interface with various icons and lines. The profile name is Franko Karoli, with a verified badge. His title is Software Engineer @Netcompany-Intrasoft | Ethical Hacking. He is located in Chalkida, Central Greece, Greece. He has 238 connections. The profile includes buttons for 'Open to', 'Add profile section', and 'More'. He is affiliated with Netcompany-Intrasoft and the University of Thessaly.

Franko Karoli ✓
Software Engineer @Netcompany-Intrasoft | Ethical Hacking
Chalkida, Central Greece, Greece · [Contact info](#)
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