

Networks and Cyber Security II

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Section: BCY-6B

Design and implement a simple network security system that can identify and flag suspicious website access attempts.

This system should:

- Continuously monitor all network activity.
- Capture and analyze information.
- Compare this information against a list of predefined suspicious websites.
- Generate alerts for any website access that matches.

File 1. Detection

[illegible]

File 2. Config.ini

```
config.ini x meow.py 1 alert_generated.log
config.ini
1 [Detection]
2 WebsitePatterns = 00005ik.rcomhost.com,000owamail0.000webhostapp.com,01ad681.netsolhost.com,023pc.cn
3 [Firewall]
4 Enabled = True
```

Image 1. When we visit the malicious website, <https://00005ik.rcomhost.com/>, our system should generate a log as seen in image 2

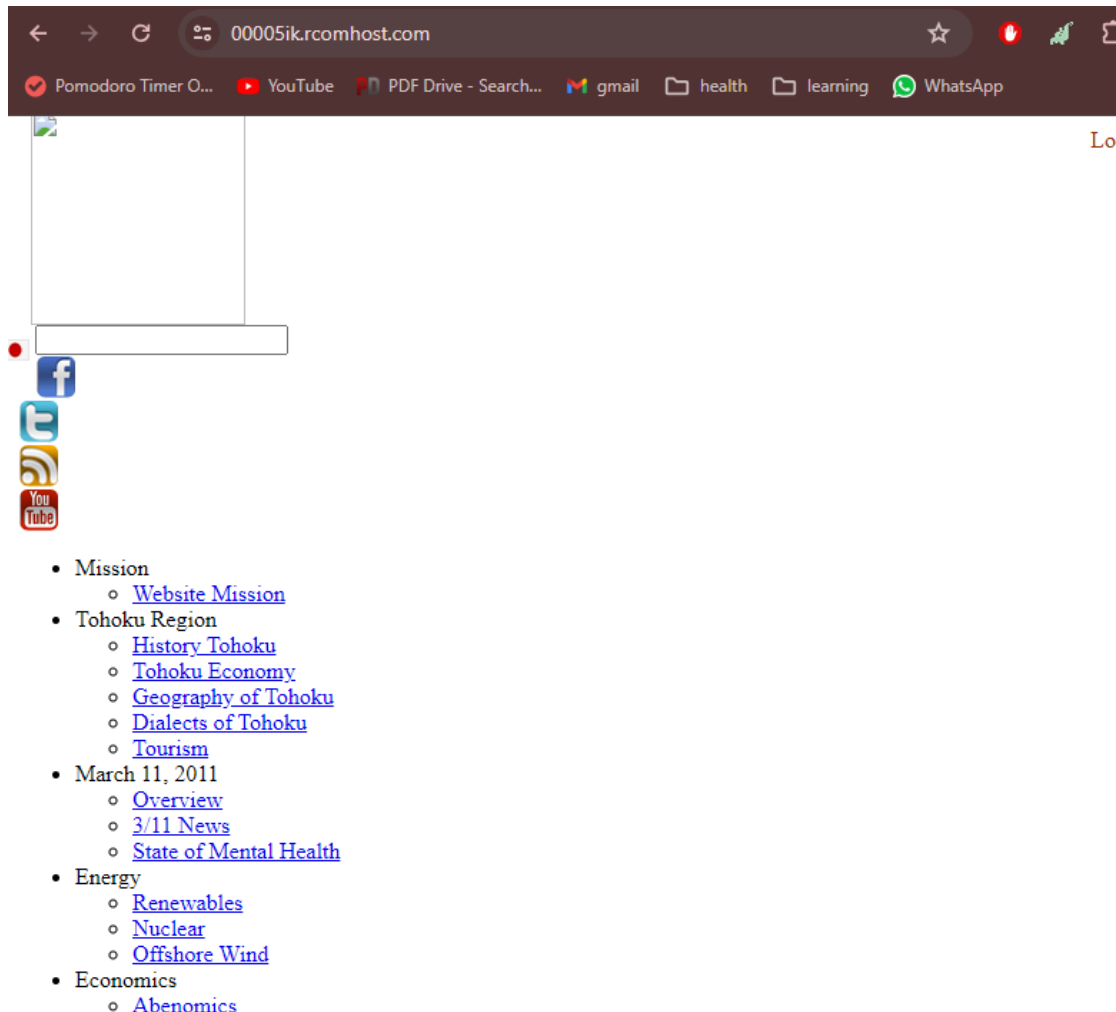
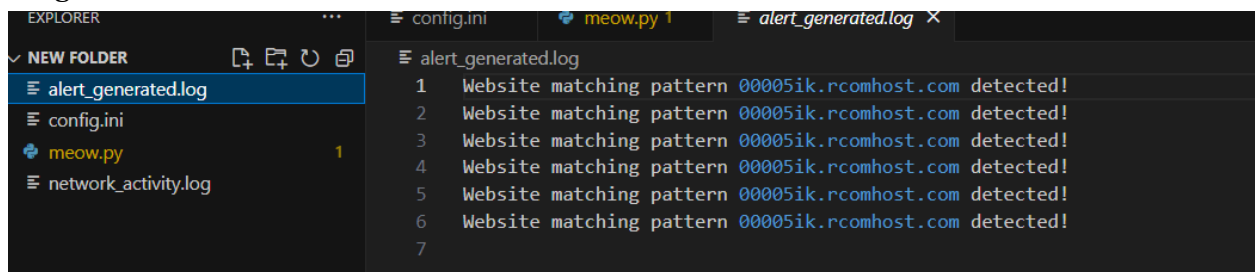


Image 2. Malicious website detected.



We can add as many malicious websites in our config.ini file. The link below will provide more malicious websites. As the files were too big, I added just a few websites in my config.ini file.

Link:

https://github.com/mitchellkrogza/The-Big-List-of-Hacked-Malware-Web-Sites/blob/master/d ev-tools/_strip_domains/domains.txt