
Current Security Threats

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Yours Truly

- David Perez
- Independent Security Consultant & SANS Certified Instructor
- GIAC GSE (includes GCFW, GCIA, GCIH, GCWN, GCUX, GSNA, GCFA)

Contents

- Example of Current Threat
- Today's vs. Yesterday's Threats
- How to defend

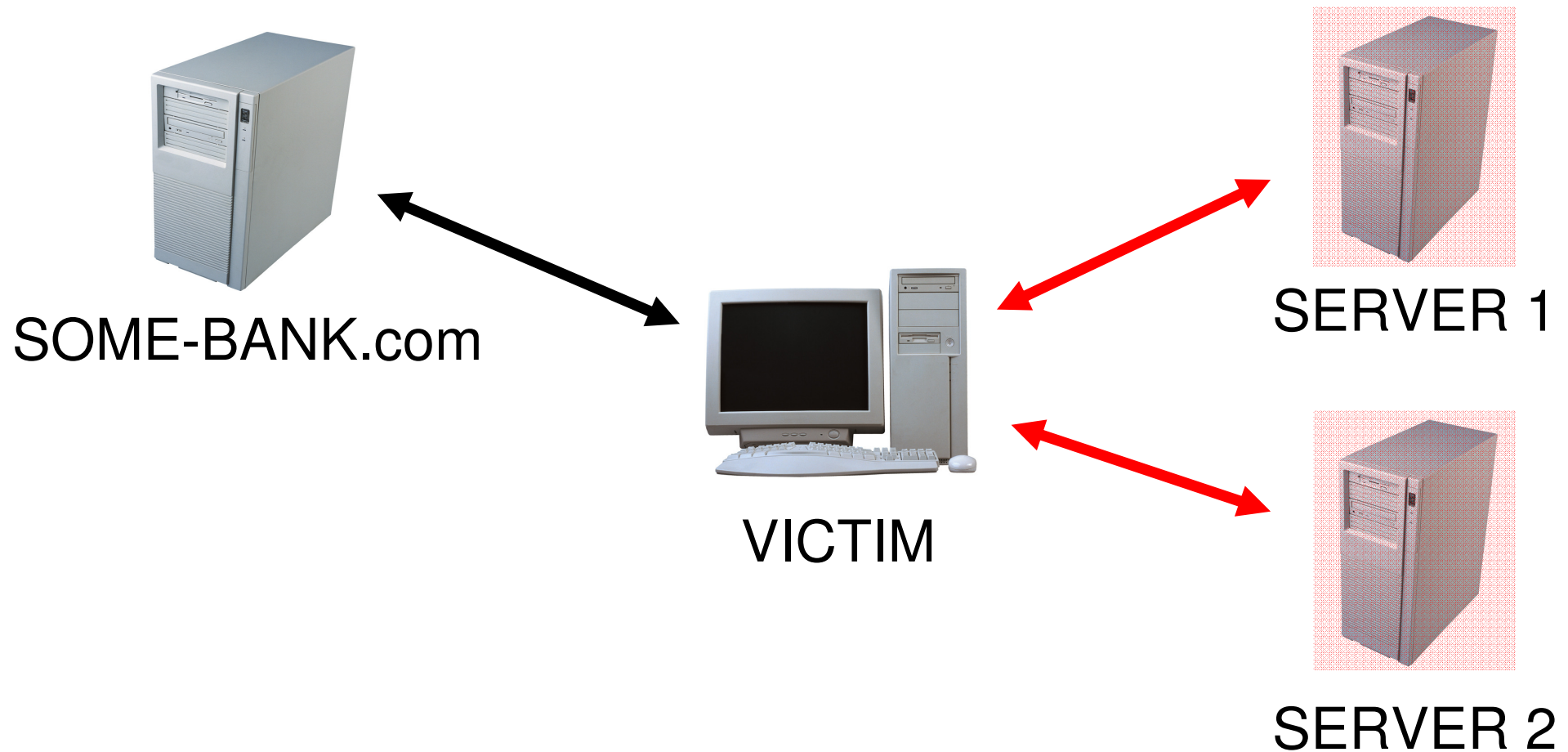
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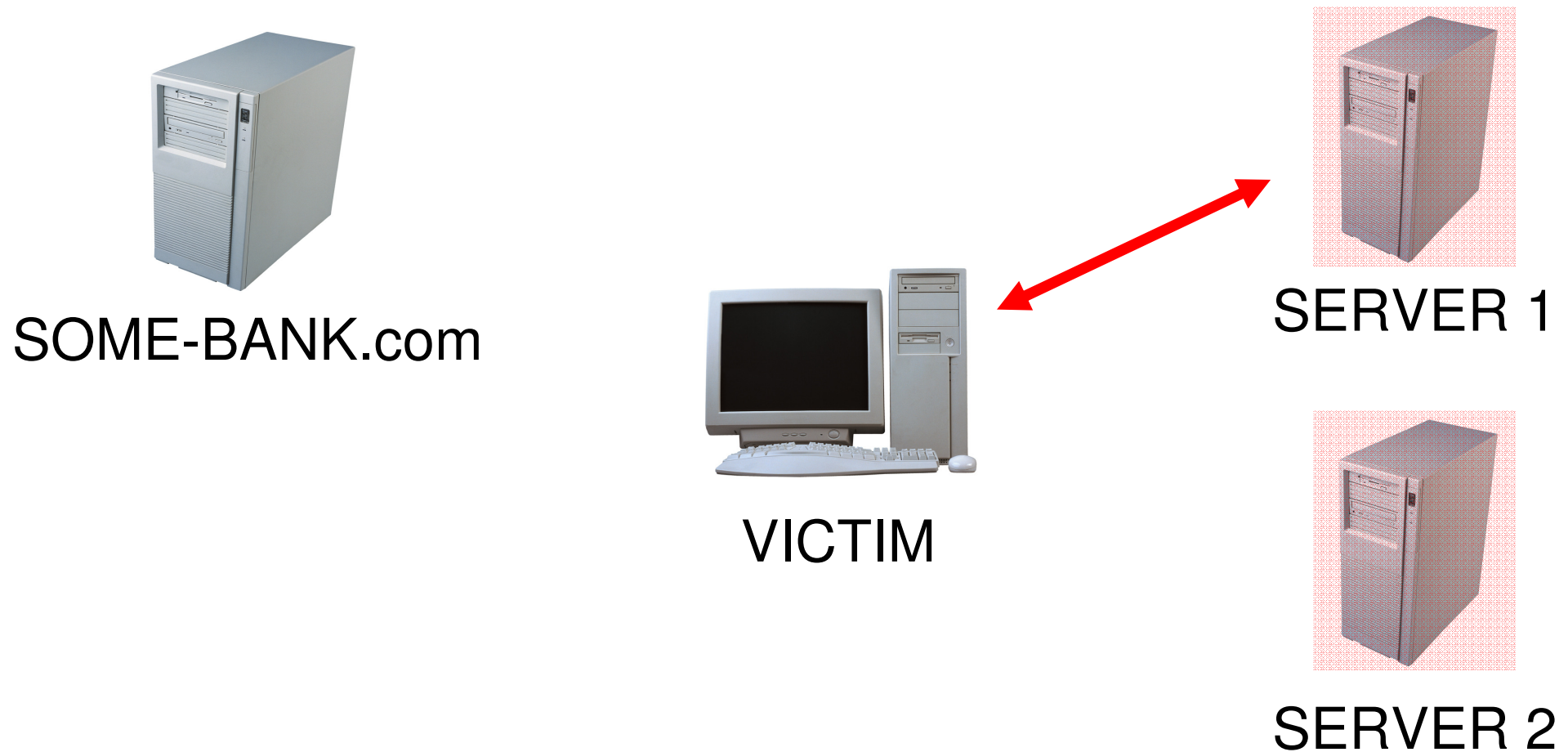
Example of Current Threat

- Malicious program
- If it gets into your PC...

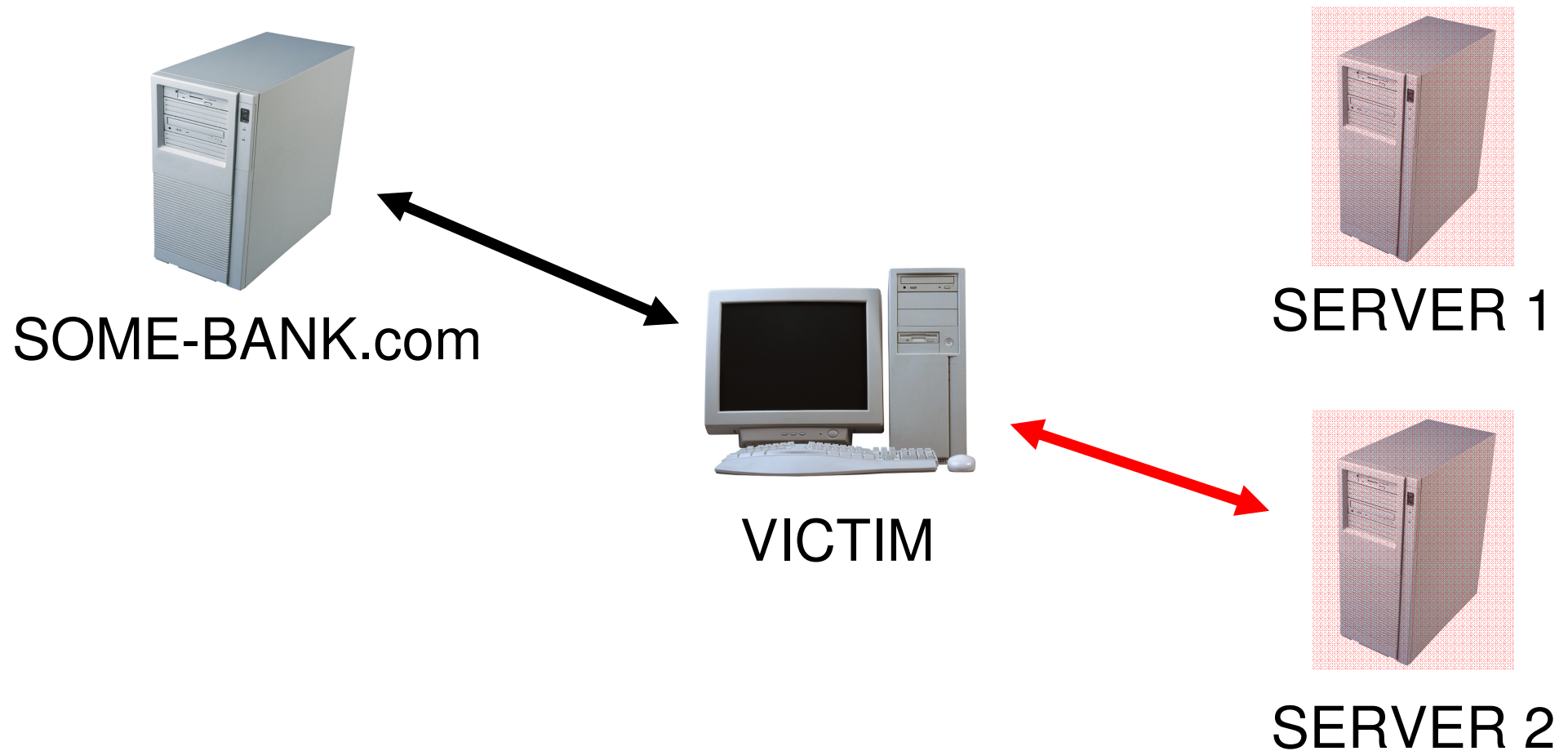
Architecture



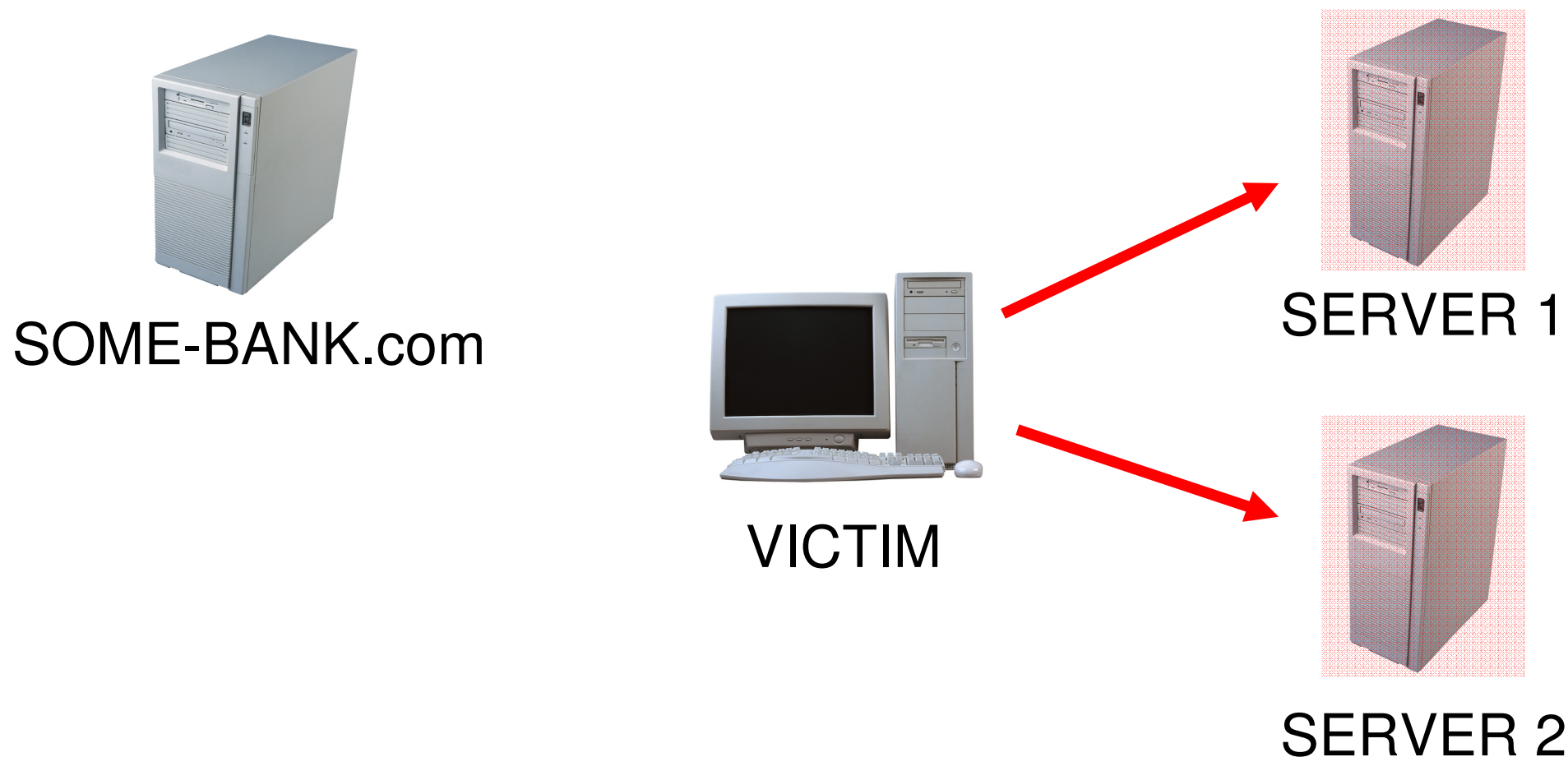
Upon Infection...



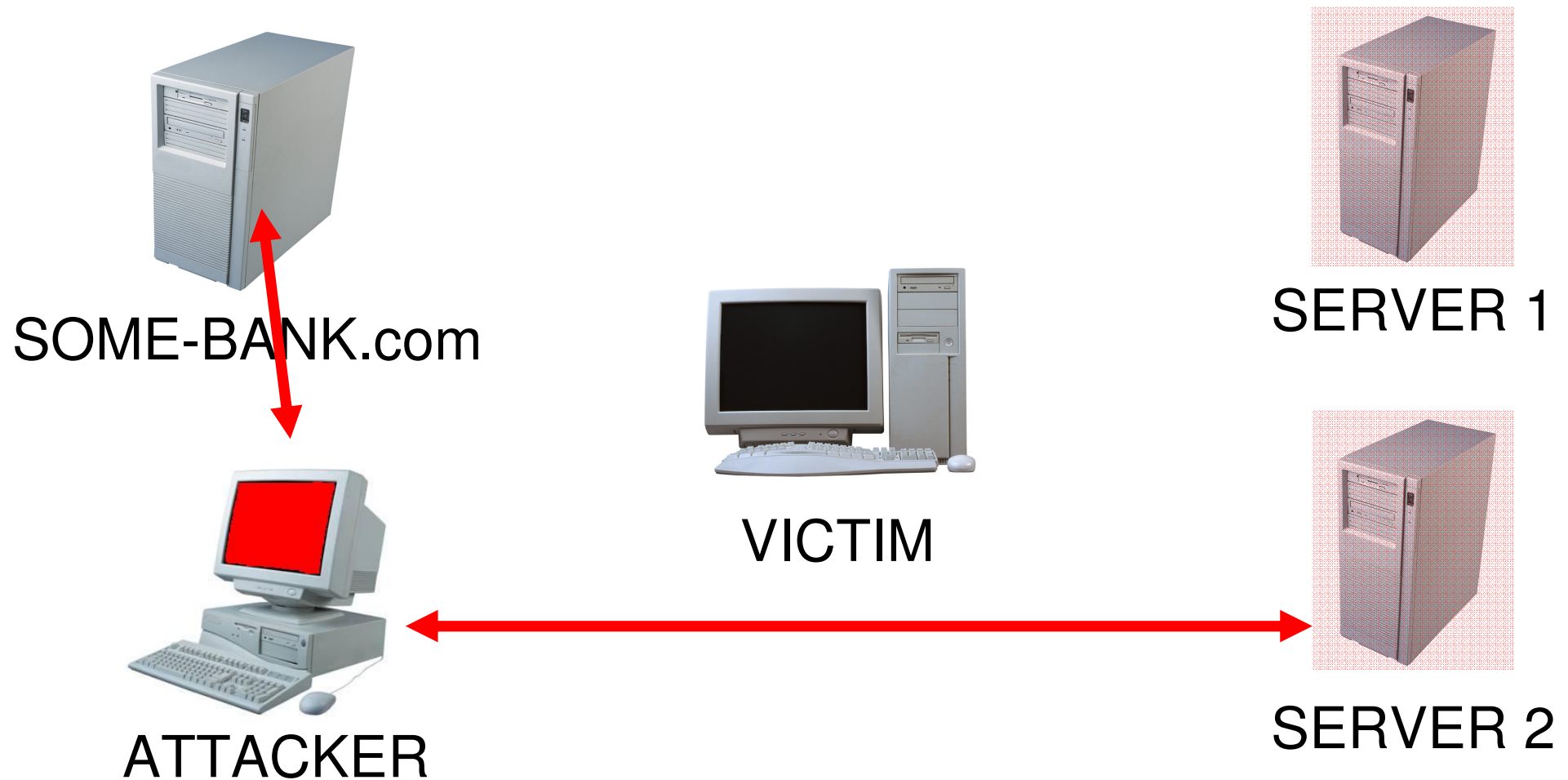
Connecting to the Bank



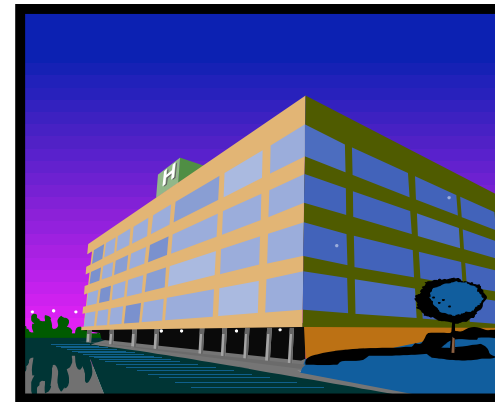
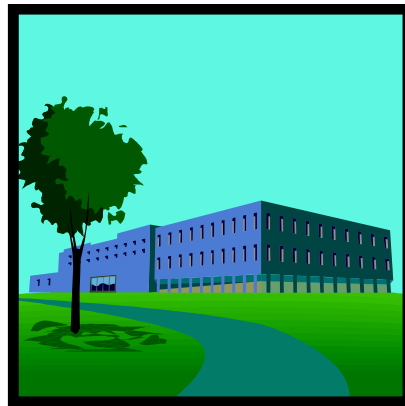
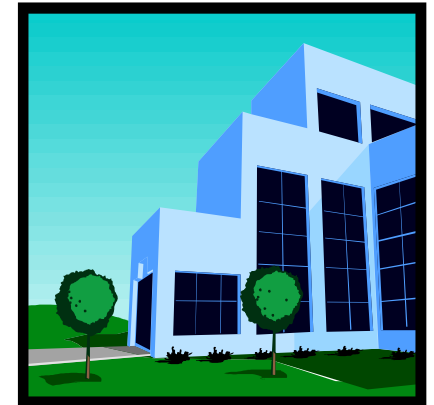
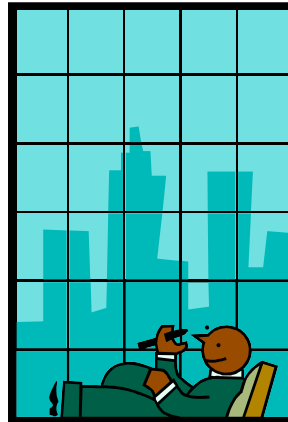
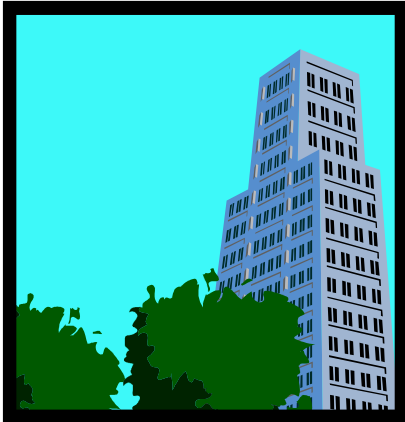
Sending Captured Data



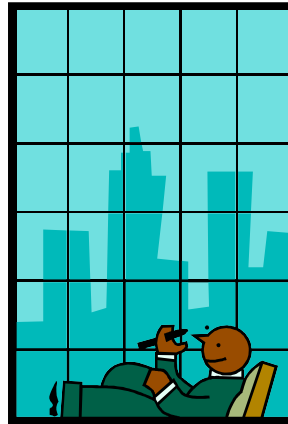
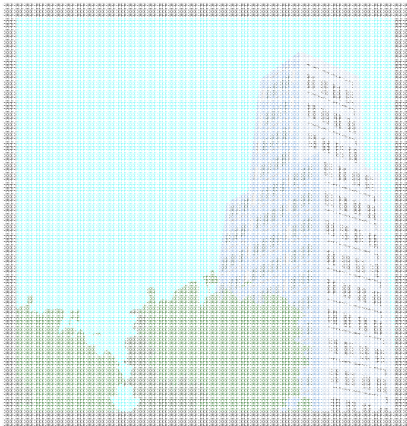
Game Over!



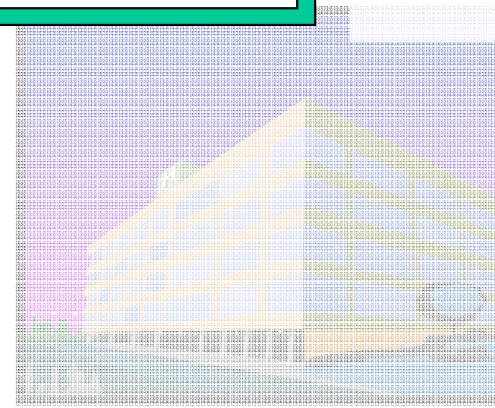
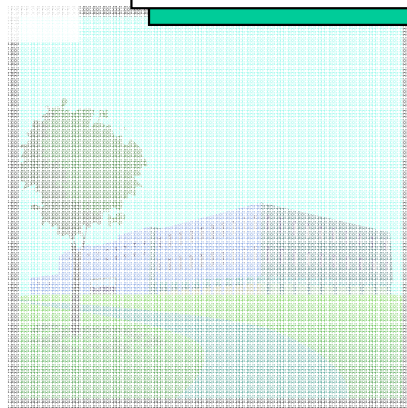
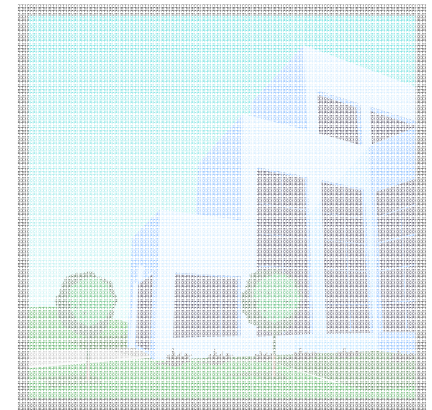
People Involved



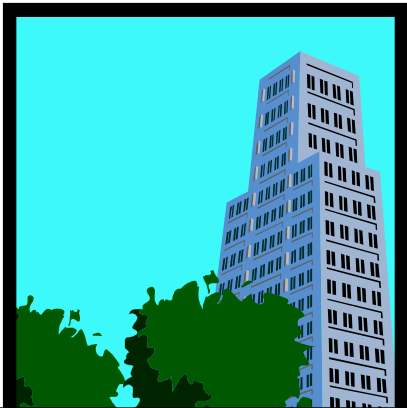
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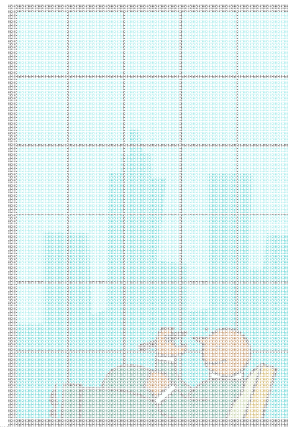
BADGUYS INC.



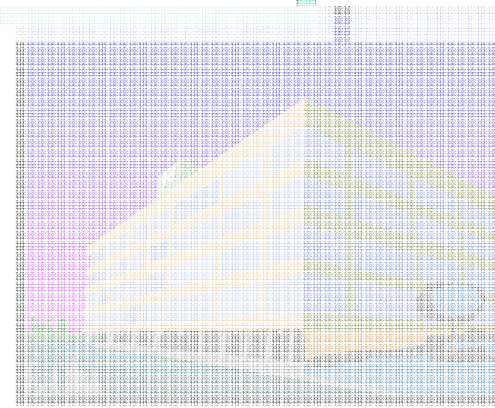
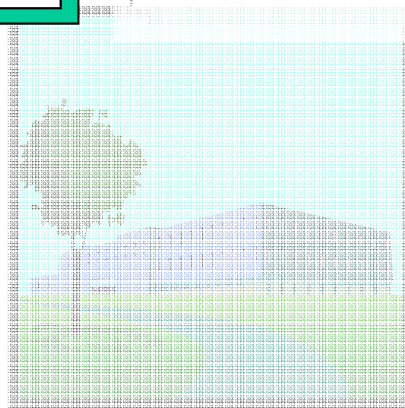
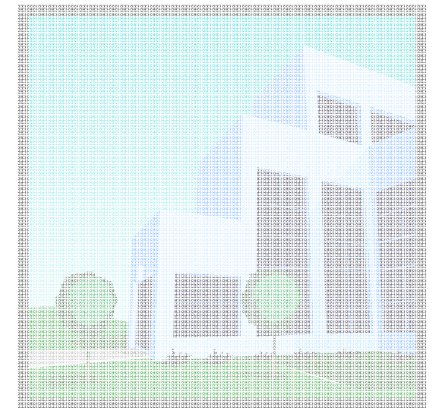
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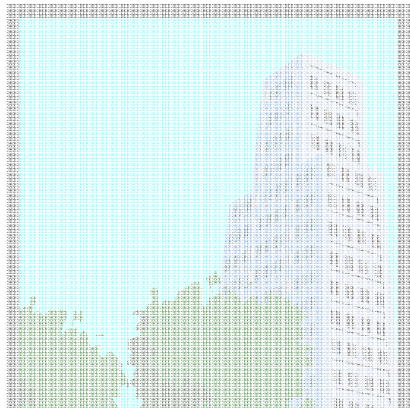
BOTNET INC.



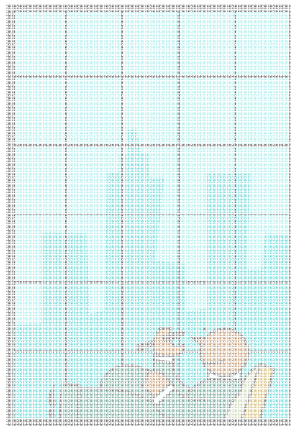
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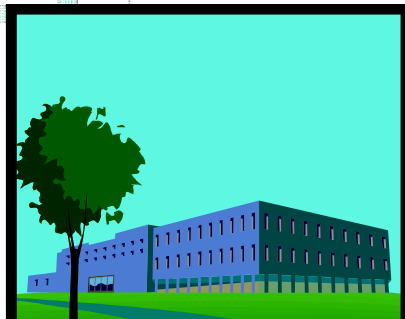
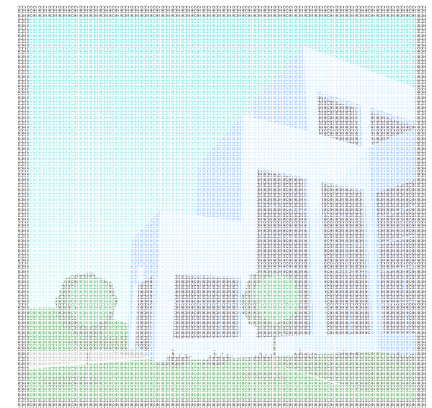
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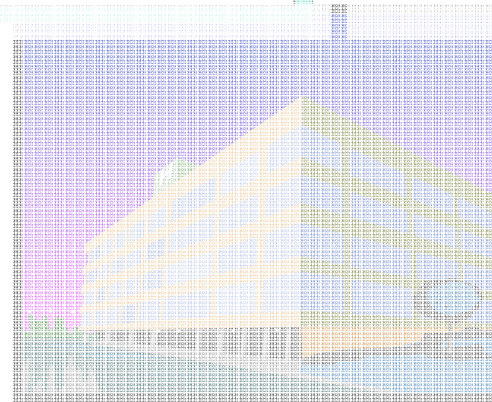
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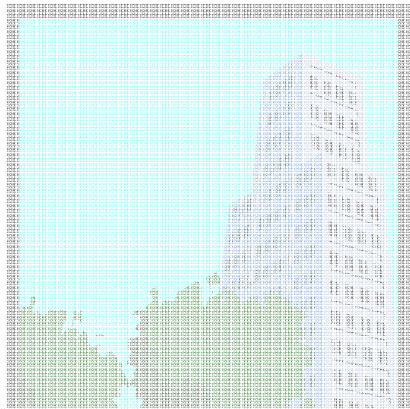
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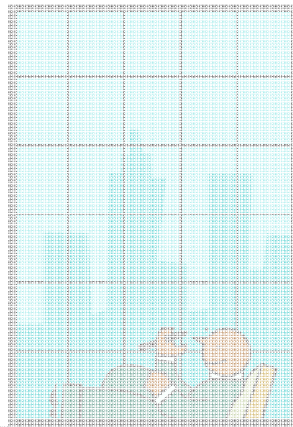
MALWARE INC.



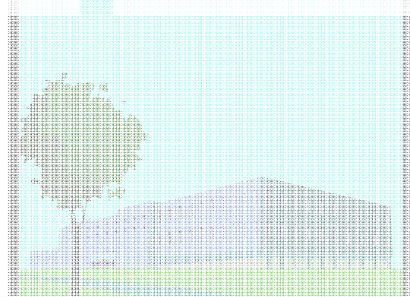
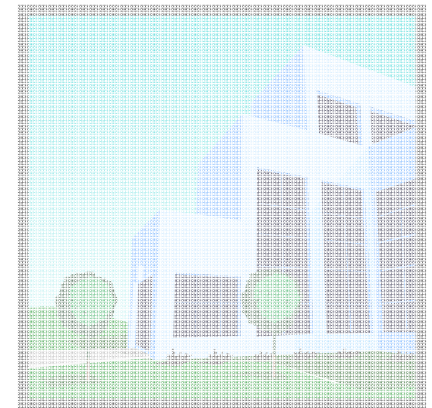
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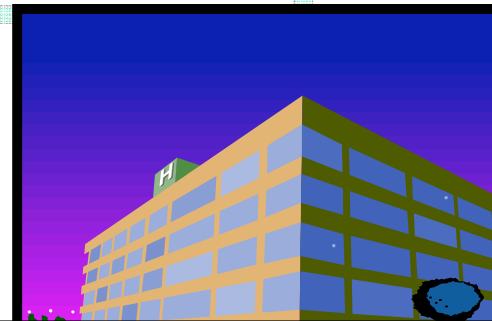
BOTNET INC.



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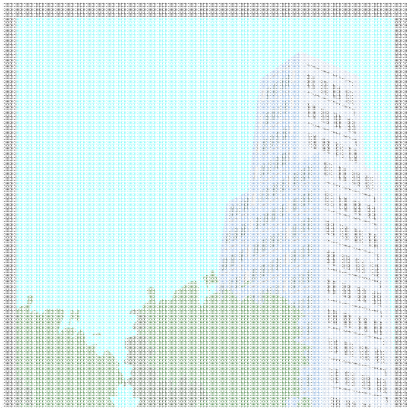


MALWARE INC.

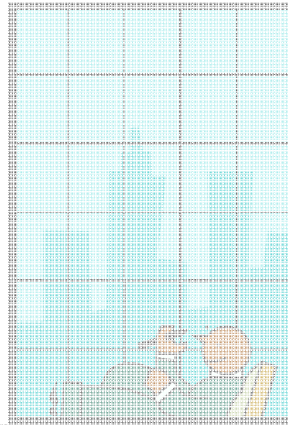


INFECTION INC.

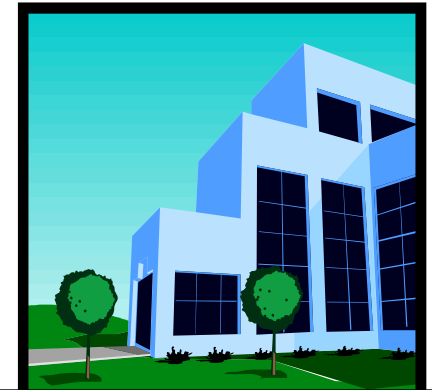
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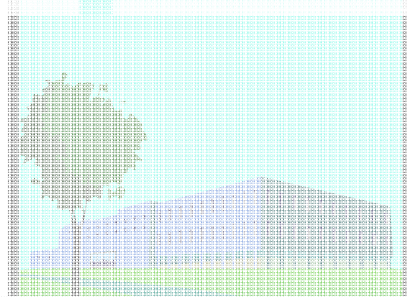
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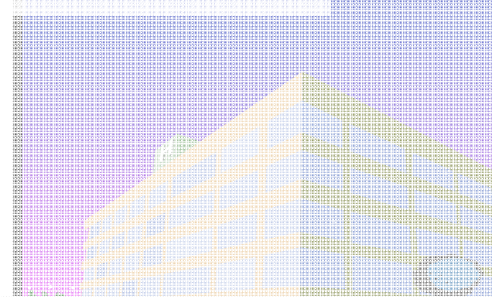
BADGUYS INC.



MALICIOUS ISP



MALWARE INC.

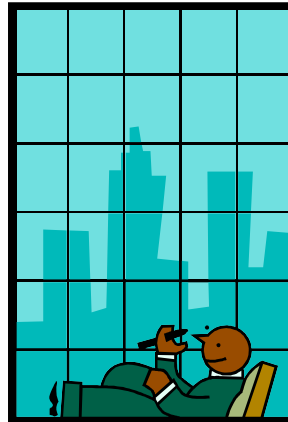


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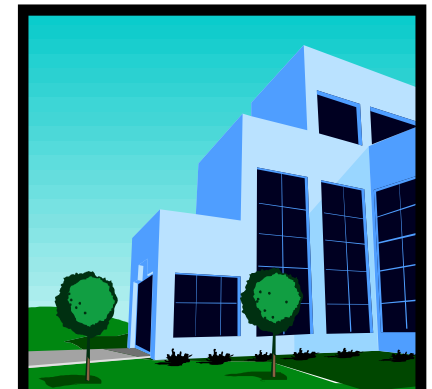
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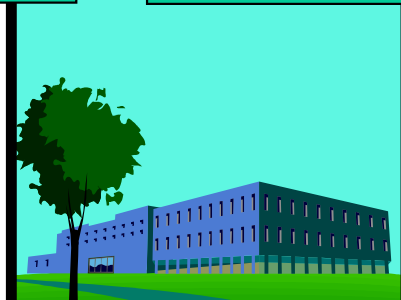
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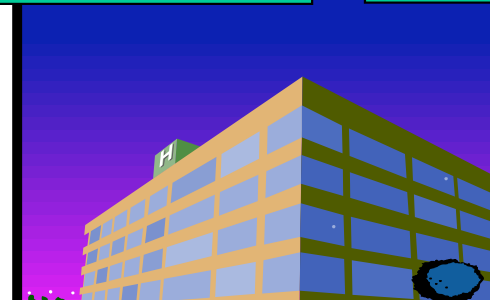
BADGUYS INC.



MALICIOUS ISP



MALWARE INC.



INFECTION INC.

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Threats

YESTERDAY

- Web Defacements
- DDoS
- Worms
- ...

TODAY

- SPAM
- Phishing
- Malware
- ...



WHY?

Money, Money, Money!!!!!!!



Contents

- Example of Current Threat
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- *How to defend*

Prevention

- Firewall
- IPS
- VPN
- Antivirus
- ...

Detection

- IDS
- IDS
- Antivirus
- ...

Response

- Forensics (Host, Network, Logs)
- Reverse-Engineering Malware
- Collaboration among CERTs
- Law Enforcement
- ...

Summary

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