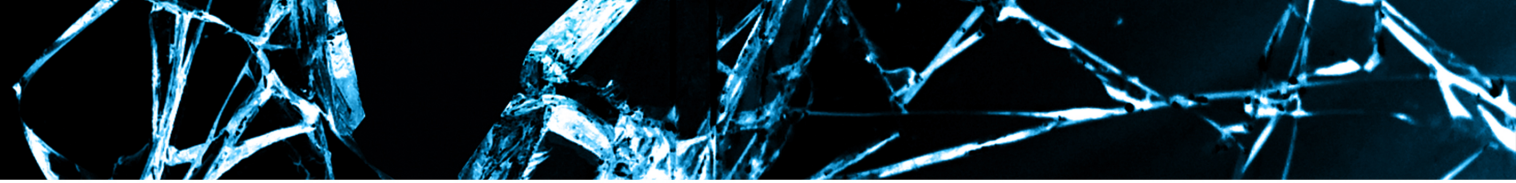

black hat®
USA 2016
JULY 30 - AUGUST 4, 2016 / MANDALAY BAY / LAS VEGAS

black hat USA 2016



Maltese

Malware Traffic Emulating Software

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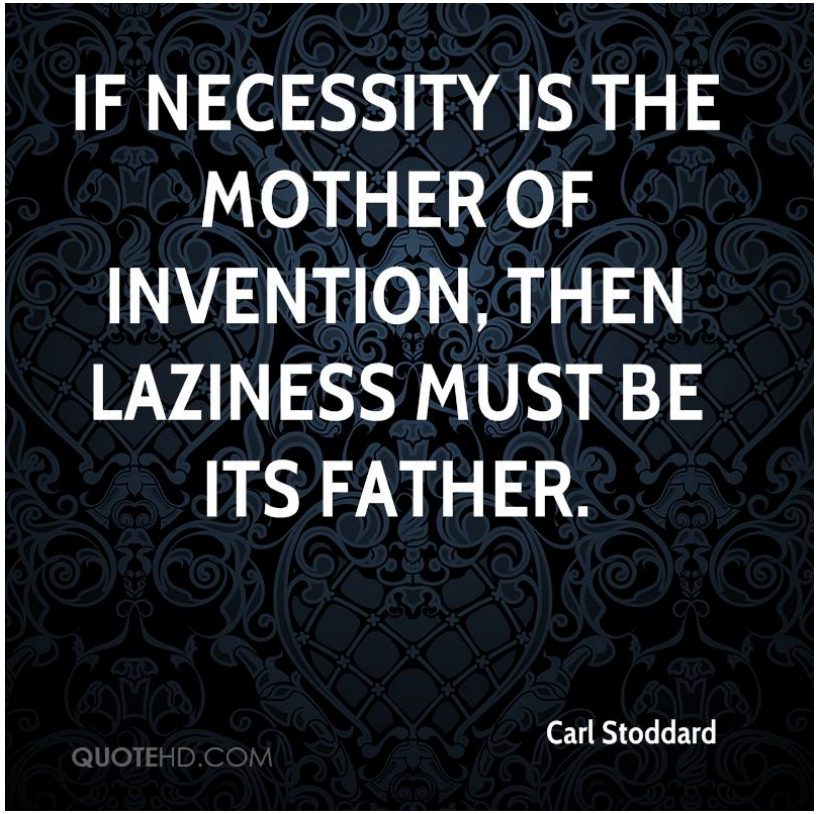
Why

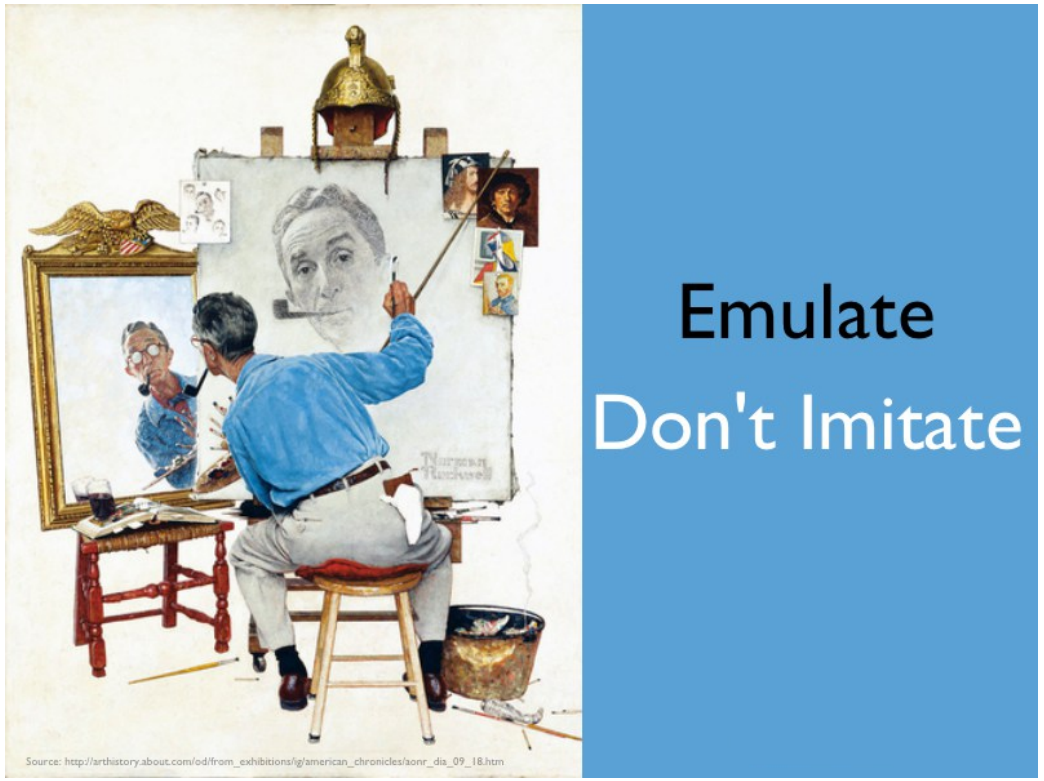
- Verifying the effectiveness of DNS based malware detectors
  - Existing security deployments
  - New security deployment
  - Against new malware outbreaks



https://github.com/HPE-AppliedSecurityResearch/maltese

How

- Emulate malicious DNS traffic of any given malware
  - On demand
  - Without interacting with real malware samples
  - In a safe way without any risk of infection



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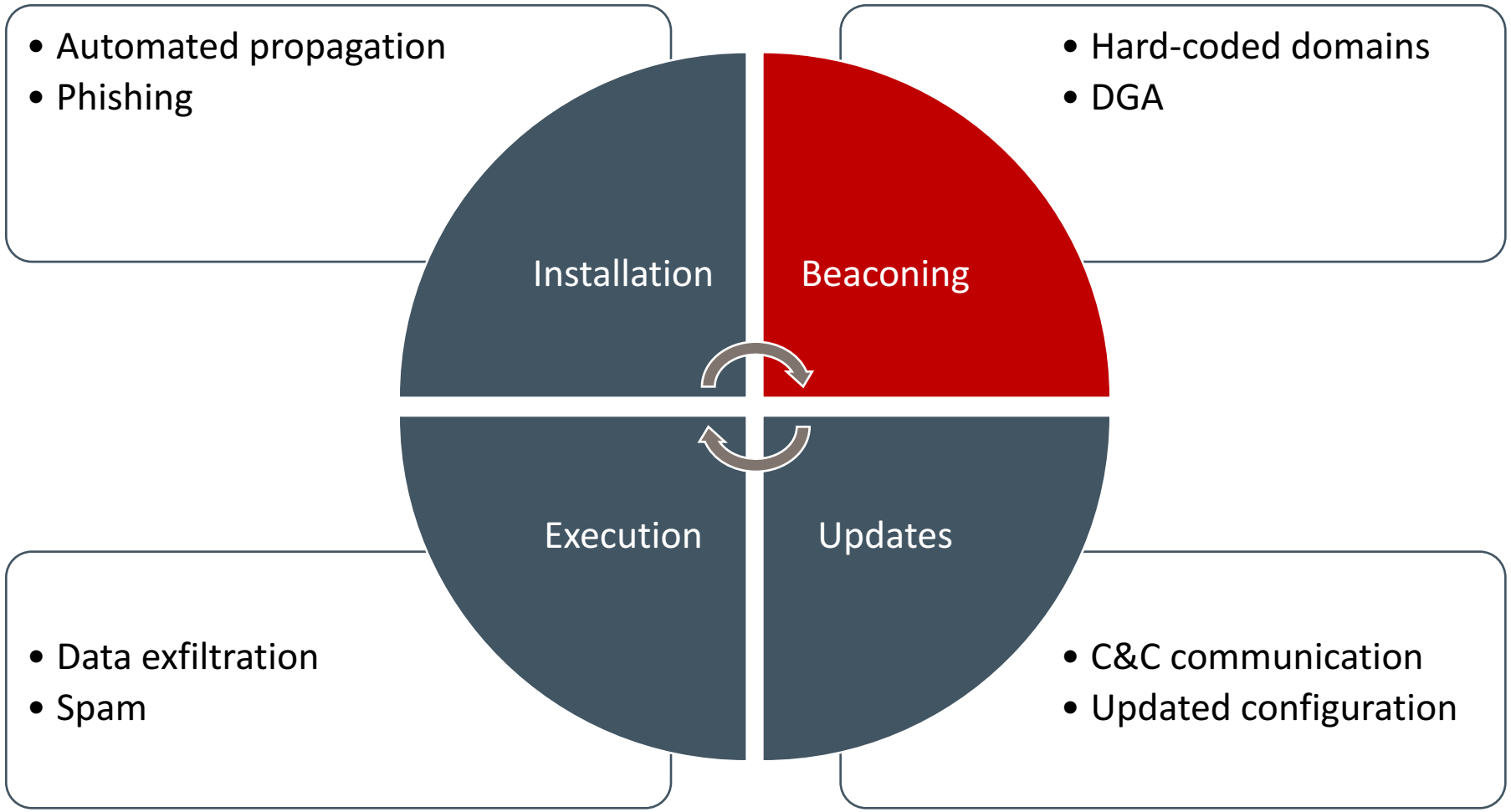
Malware Communication Lifecycle



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What

- Malicious domains
  - Replay
    - Pre-recorded pcaps
    - List of known domains
  - Create DNS traffic based on a Domain Generation Algorithm (DGA)
- Traffic model
  - Used to accurately emulate the traffic patterns of a malware
  - Modeled based on the probability distribution of malware requests

Where

- GitHub: https://github.com/HPE-AppliedSecurityResearch/maltese

Who

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