HACKING EXPOSED

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ADVERSARIAL TECHNIQUES OBSERVED IN THE WILD

WES BATEMAN

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Adversarial Emulation

- Emulating actual adversary behavior seen in the wild
  - Red Team
    - Targeted and Relevant Pen Testing
  - Blue Team
    - Testing Defenses Against Threat Actors Who Actually Target Your Type of Organization
    - Testing Defenses Against Techniques, Not Just Tools/Malware

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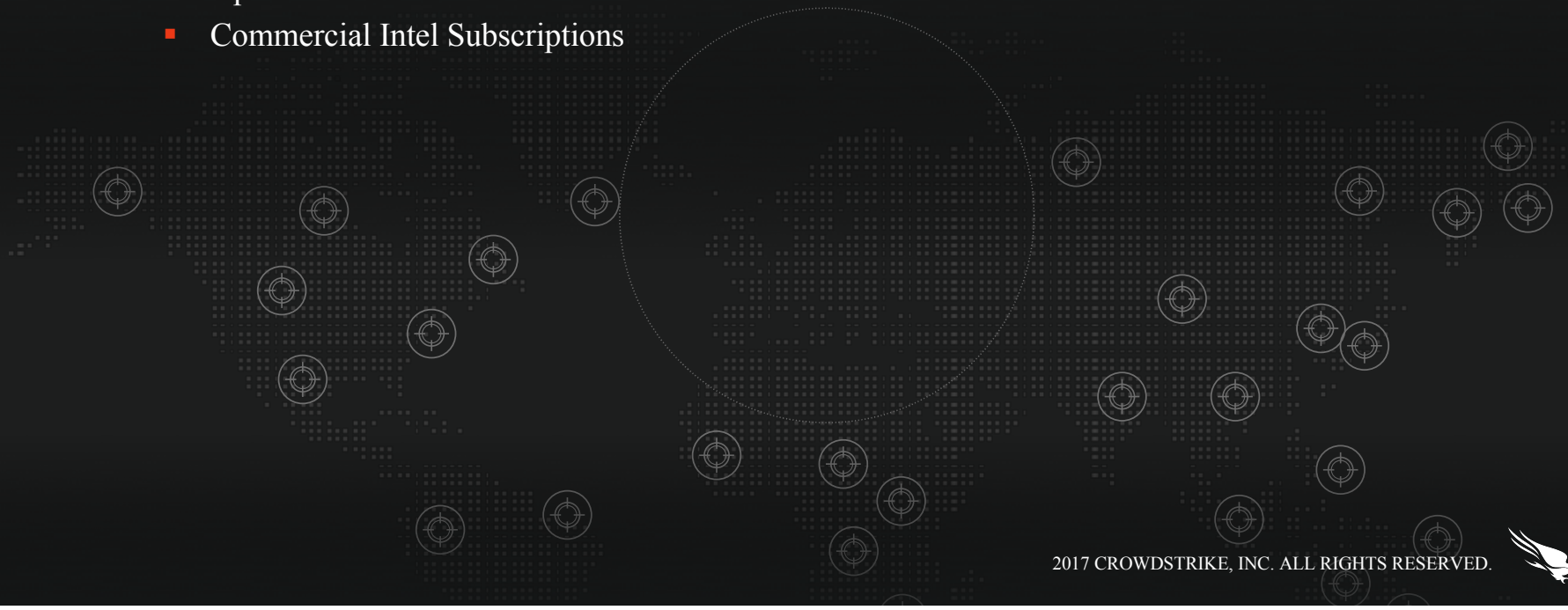
Threat Intelligence

- What TTPs Are Currently Being Used in the Wild
  - Open Source Intel
  - Commercial Intel Subscriptions



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Two Hacking Exposed Scenarios

- Phishing attack
  - Establish remote access
  - Initial reconnaissance
  - Exfiltrate data (may happen quickly but often continues over time)
  - Credential theft for lateral movement
  - Establish persistence
- Public-facing server attack
  - Exploit a vulnerability found in the web application
  - Establish remote access
  - Reconnaissance
  - Attack other internal infrastructure for later lateral movement, persistence, and data exfiltration

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References / Links

- Meet the Adversaries
  - https://www.crowdstrike.com/blog/meet-the-adversaries/
- Cozy Bear and Fancy Bear
  - Bears in the Midst: Intrusion into the Democratic National Committee
    - https://www.crowdstrike.com/blog/bears-midst-intrusion-democratic-national-committee/
  - Bear Hunting: Tracking Down COZY BEAR Backdoors
    - https://www.crowdstrike.com/blog/bear-hunting-tracking-cozybear-backdoors/
- Silent Chollima
  - Unprecedented Announcement by FBI Implicates North Korea in Destructive Attacks
    - https://www.crowdstrike.com/blog/unprecedented-announcement-fbi-implicates-north-korea-destructive-attacks/
    - https://krebsonsecurity.com/2014/12/the-case-for-n-koreas-role-in-sony-hack/
    - http://www.mcafee.com/us/resources/white-papers/wp-dissecting-operation-troy.pdf
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