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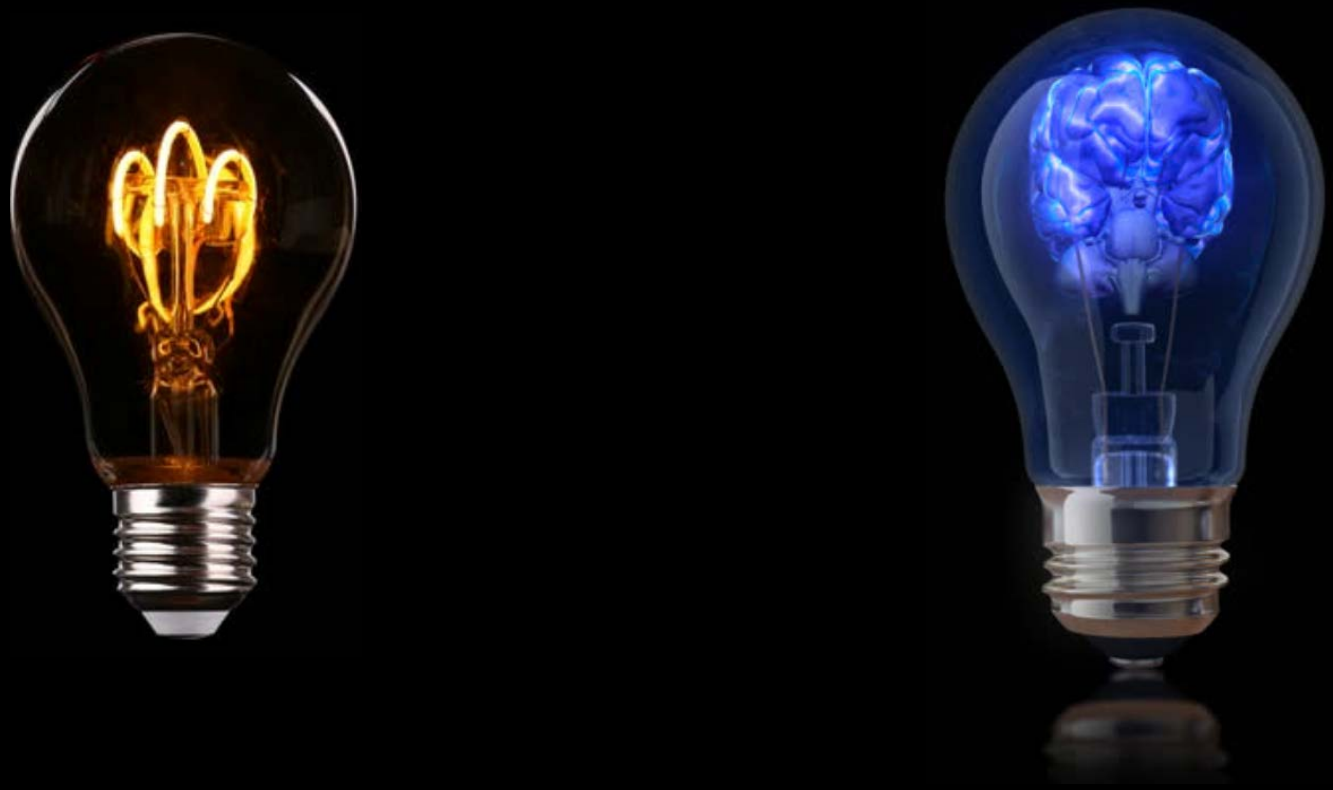
New and Emerging Threats That Disrupt Cybersecurity Paradigms

2 May, 2018

Eric Weston

New and Emerging Tech/Threats



DOS attacks from light bulbs become a real threat

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New and Emerging Tech/Threats











Internet of Things – How do you protect from everything?

Using Hacked Autonomous Cars As Attack Vehicles

From the movie
"The Fate of the Furious"
(2017)

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New and Emerging Tech/Threats

Computers become smaller, more powerful, wireless, and mobile

Cyber Trends

Internet Users: 415M (2000) – 3.9B (2018)

IoT Devices: 2B (2006) – 200B (2020)

Cybersecurity: $1T (2017 – 2021)

- Government: $14B (2016)
- Government: $31.5B (2020)

Ransomware: $325M (2015) – $11.5B (2019)

Cybercrime: $3T (2015) – $6T (2021)

- $200, remote access trojan
- $50, password stealer
- $200, sophisticated license for widespread attacks

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Current Cybersecurity Paradigm

Government's Focus:

- ICD 503 Compliance
  - Strong Passwords, Patching, Auditing, Least Privileges, etc.
  - Vulnerability Scanning
  - Manual Validation and Verification
- Cyber Defense
  - Protecting Boundaries
  - Blocking Malicious Emails and Web Sites

Is This Effective Today?

Will This Scale to the Future?

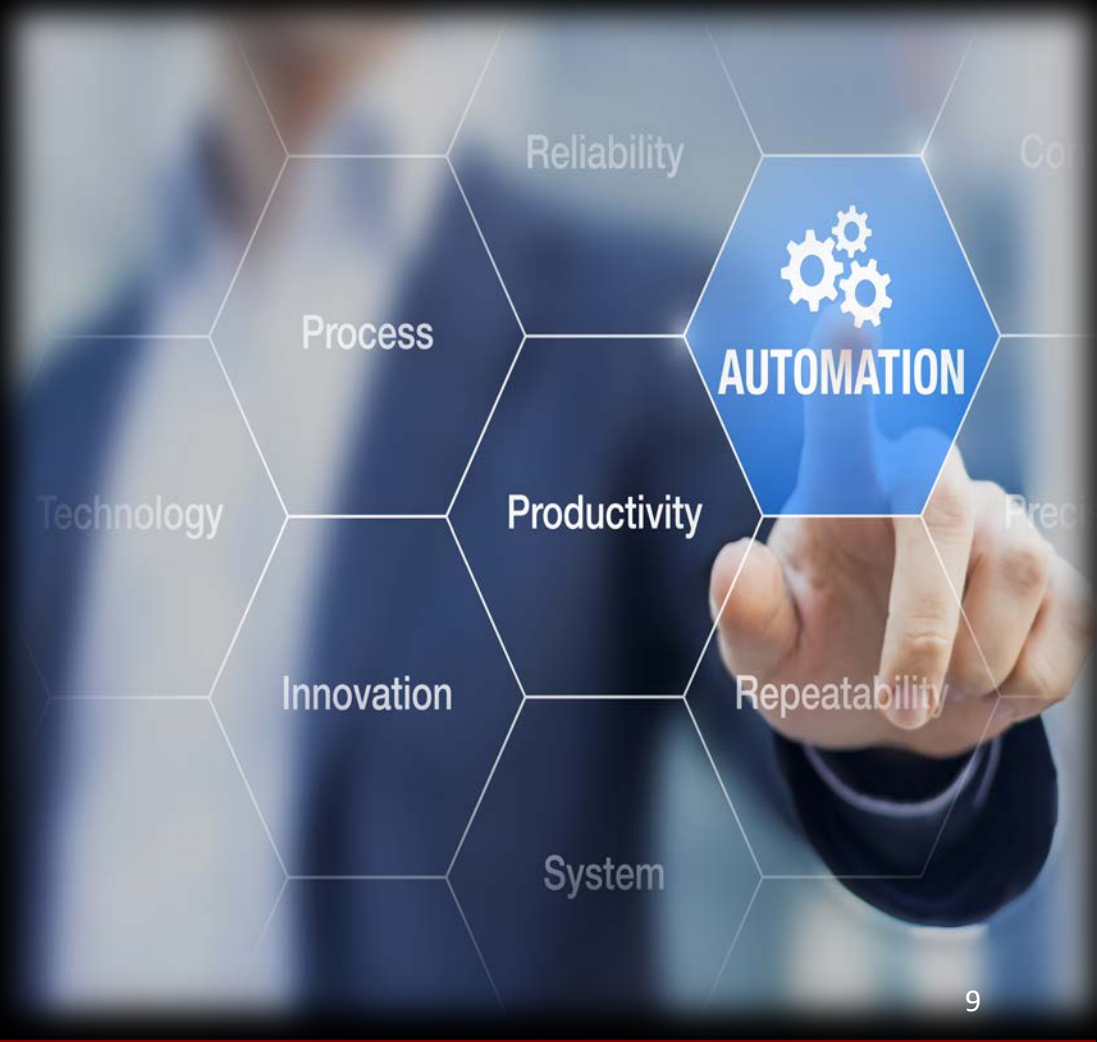
New Cybersecurity Paradigm

Automate Everything Possible
- Assessments and Authorizations (A&A)
- Continuous monitoring
- IT stack reuse (cloud, containers)

Phoenix Approach
- New instances of web servers stand up every hour, fully patched and trusted
- Operational environments can only write to memory
- Network device configurations pushed periodically

End-Point Protection
- Everything is wireless and mobile
- No trusted networks
- User behavior intelligence linked to automated system access lockdown

Security as code
- Code analysis
- DevSecOps
- Cloud security



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