

# Preventing Your Next Cyber Loss



**Maine InfraGard  
Members Alliance**  
A Partnership for Protection



Frank Appunn

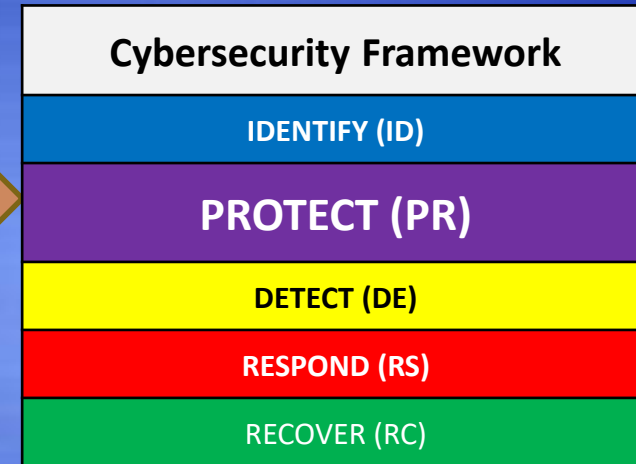


**THOMAS**

# Preventing Your Next Cyber Loss



- Protect yourself from future Risks
- Specific expectations 2020 - 2024:
  - Technology deployments
  - Changing threats
  - Different user challenges



(NIST Cybersecurity Framework, v1.1, 2018)



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# Users:

## From Complexity to Human-centric

- People can remember words
- Computers work on characters and patterns
- Make it easy and long
  
- Branding stranded strontium sun
- brandinGstrandeDstrontiuMsuN
- brand5inGstrand\$eDstron3tiuMsuN



# Users



- Trust, but verify
- Do not trust, and verify
- Business email compromise (BEC):
  - Did it really come from your CEO?
- Dark (Web) Cloud
  - Service providers
  - Deep fake service on the dark web

# Changing Threats



- Internet of Things (IoT)                      Industrial Internet of Things (IIoT)
- Low power, no physical access, overwhelming adoption
- Wireless (5G)
  
- 1 Billion to 30 Billion
- By 2027: 500 Billion
- For 10 Billion people
- But only 5 Billion connected – what do your 100 devices do?

# 5G is not about phones



- Do you trust machines?
- We do not own or control most of the 5G technology

# Cloud



- Safe Wide area network: SD-WAN = \$5 Billion
- IAM: Identity and Access Management
- Unknown Cloud Services
- Cloud Brokers
  
- Containerization and Kubernetes & Docker

# Cloud



NEWS



## Exposed Docker hosts open the door for cryptojacking

Security researchers discovered a new Docker worm that has been targeting exposed hosts in order to spread cryptojacking malware to other containers.

By [Beth Pariseau](#), Senior News Writer |  
[Michael Heller](#), Senior Reporter

Published: 16 Oct 2019

TechTarget



# Will your business survive?

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## NEWS & COMMENTARY

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### 10% of Small Businesses Breached Shut Down in 2019



**DARK**  
Reading

As a result of cybercrime, 69% of small organizations were forced offline for a limited time and 37% experienced financial loss.

By DARK READING STAFF , 10/23/2019

Quick Hits

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# Suggested resources



- The National Institute of Standards and Technology
  - <https://www.nist.gov/cyberframework/small-and-medium-business-resources>
- Small Business Administration
  - <https://www.sba.gov/business-guide/manage-your-business/small-business-cybersecurity>
- InfraGard Maine
  - Members provide some assistance workshops. Contact [Frank@Appunn.net](mailto:Frank@Appunn.net)
- Thomas College
  - Students provide service to the community for small businesses and local government. Contact [Frank.Appunn@thomas.edu](mailto:Frank.Appunn@thomas.edu)