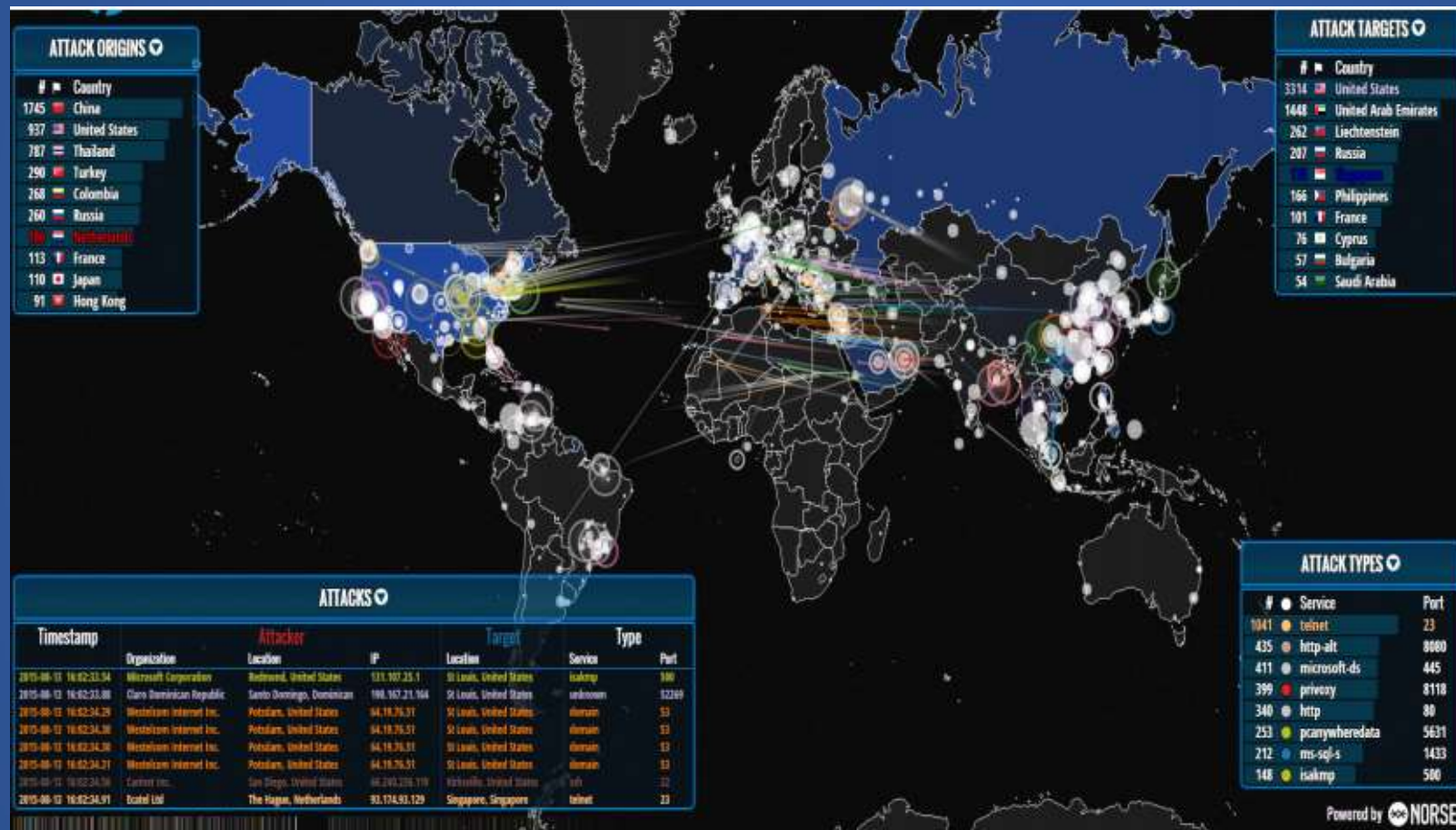


# Mendocino County Cybersecurity



January 21, 2020

# Mendocino County Cybersecurity Worldwide Statistics

## DATA BREACHES BY THE NUMBERS



Hackers attack every **39 SECONDS**, on average **2,244** times a day.



Data breaches exposed **4.1 BILLION** records in the first half of 2019.



Average cybersecurity spending per employee is **\$1,178**.

# Mendocino County Cybersecurity

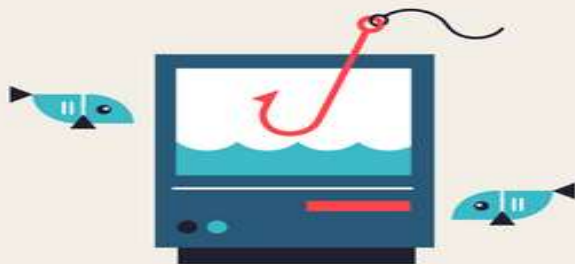
## WHERE DO CYBERATTACKS COME FROM?



**48%** of malicious email attachments are office files.



**34%** of data breaches involved internal actors.



**65%** of groups used spear-phishing as the primary infection vector.



**94%** of malware was delivered by email.

# Mendocino County Cybersecurity Current Security Measures

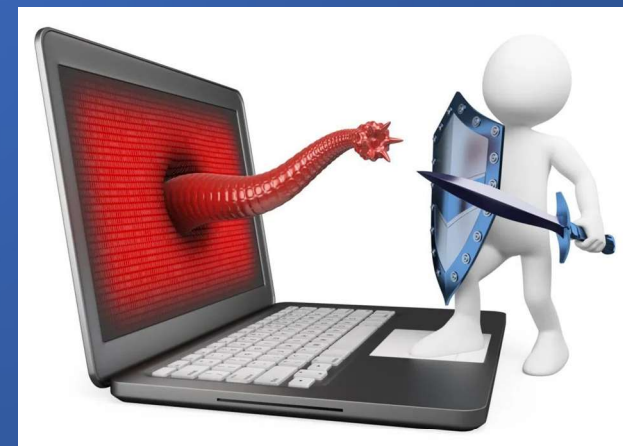
- Multiple layers of protection
- Modern up-to-date monitoring tools
- “Next generation” firewall/intrusion protection



# Mendocino County Cybersecurity

## Current Security Measures cont.

- Email/website filtering
- Layers of antivirus/malware protection
- Security regulation compliance
  - Public Safety
  - Health Insurance Privacy Act





# Mendocino County Cybersecurity Planning for the Future

- Additional resiliency/recovery capabilities
- Security Awareness Training
  - Staff are the first line of defense
- Block bad actors before they can threaten



# Mendocino County Cybersecurity Planning for the Future cont.

- Cybersecurity incident simulation drills
- Expanded use of Artificial Intelligence
  - “Next Generation” antivirus/anti-malware
  - Self-learning systems



# Mendocino County Cybersecurity Summary

- Security Awareness is everyone's responsibility
- Current County Activities
  - 10,000 - 30,000 emails per day on average blocked for spam or other malicious intent
  - 50+ viruses and malicious files on average per day blocked and quarantined





# Mendocino County Cybersecurity Summary

- Threat level and number of incidents has drastically increased in 2019
  - We expect this trend to continue
- Threat prevention spending will need to increase
- We expect to implement one or more security tools every quarter for the foreseeable future



# Mendocino County Cybersecurity Questions

