

Introduction to
Cybersecurity

CUNA Volunteer Achievement Program, V502

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Goals

- Technology and security that enables and supports strategic plans
- Strike a balance between service and security
- Identify and manage risk, cost-effectively



Objectives

- Create an effective physical & cybersecurity program
- Understanding your role
- How and why we assess risk
- Concept of Life Cycle Security
- Technology

Creating a Security Program

- Roles and responsibilities of the board, supervisory committee, and management
- The value of human resources
- Culture of security, culture of compliance
- Policy, standards and procedures

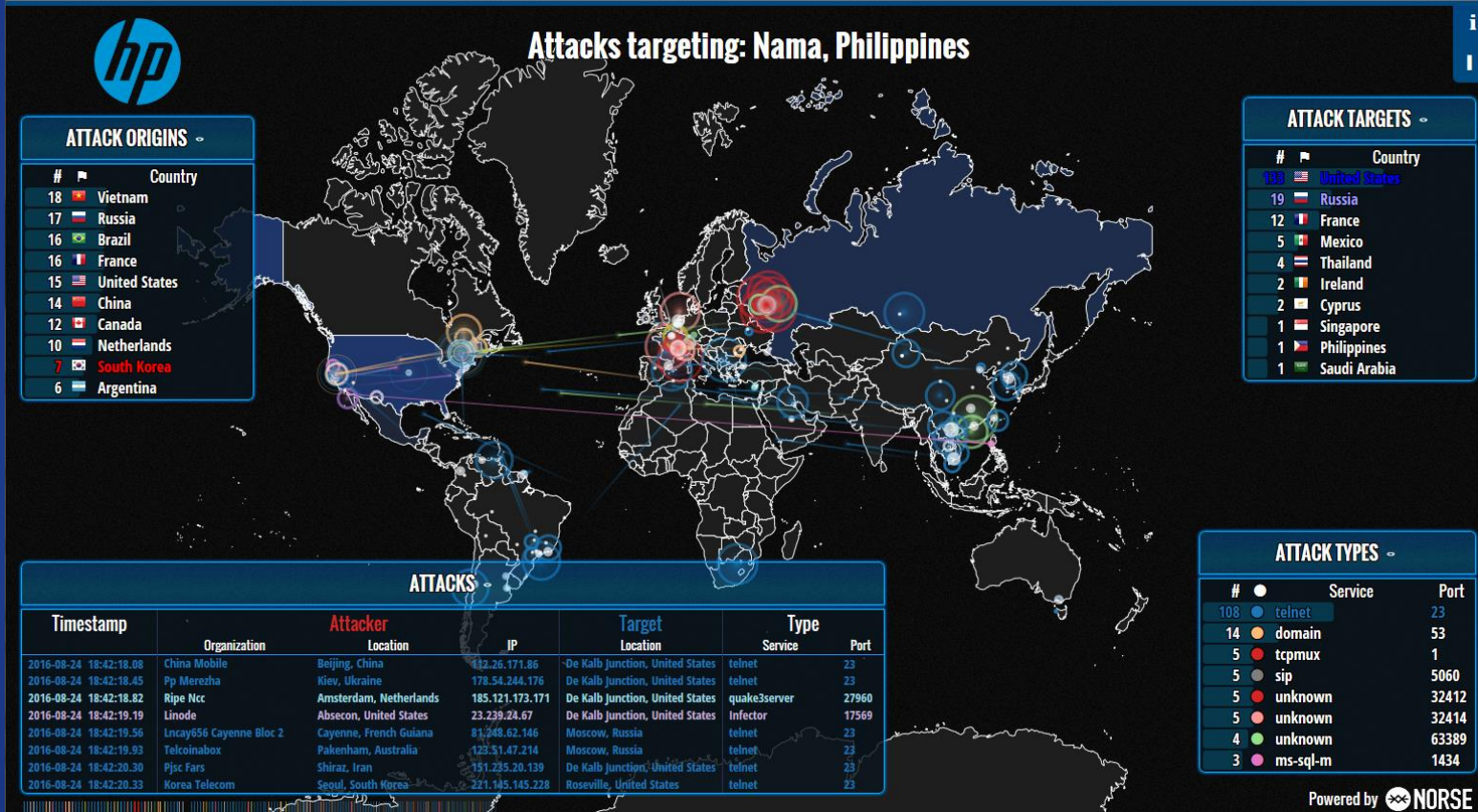
Creating a Security Program

- Policy, standards and procedures
 - Applicable to your organization
 - Practical
 - Enforceable
 - Understandable
 - Accountability

Assessing Risk

- Confidentiality, integrity and availability
- Probability, Criticality of Impact, Residual
- Types of risk--regulatory, reputation, transaction, legal, health & safety
- Cost-effectiveness of mitigation

External Risks



External Risks

- Natural disasters
- Burglary, theft, unauthorized access, malware, hackers and crackers
- Safety
- Vendors, service providers
- Members' savvy

Internal Risks

- Human resources, skills
- Human error, loss, social-engineering
- Theft, embezzlement, sabotage
- Unauthorized access

Life Cycle Security

- Culture of Compliance, Culture of Security
- Integrate security into the process
- Monitor, assess and audit
- Seek resources--NCUA Letters, colleagues and peers, independent review

Data Breach Statistics

DATA RECORDS LOST OR STOLEN SINCE 2013

4,762,376,968

ONLY 4% of breaches were "Secure Breaches" where encryption was used and the stolen data was rendered useless.

DATA RECORDS ARE LOST OR STOLEN AT THE FOLLOWING FREQUENCY



EVERY DAY

3,599,680

Records



EVERY HOUR

149,987

Records



EVERY MINUTE

2,500

Records



EVERY SECOND

42

Records

-Breach Level Index. Gemalto, August 2016.

Response Plan

- Prevention, but it's not a matter of **IF**, but **WHEN**
- Does your institution have a Response Plan?
- Does it address the risks?
- When was it last tested?
- Plan, test, resolve gaps, re-test

Supporting Your Strategy

- Identify products and services, and controls
 - Online banking, RDC
 - Smartphones
 - Credit/debit cards
 - ATMs
 - Wires/EFTs
 - Remote access to your network

Summary

- Technology and Security should enable and support, not limit
- Balance between service and security
- Ask questions, seek resources and answers
- What can you bring to the table?

Testing Your Knowledge

- Turn to page 71, Appendix B to review the Test Questions

Thank You