



















School of Cybersecurity Training by CyberIIoT

IoTSI Mexico Chapter









### WHAT IS CYBER SECURITY?



La ciberseguridad es :
.Conjunto de políticas
.Herramientas
.Conceptos de seguridad.
.Métodos de gestión de riesgos.

.Formación
.Prácticas idóneas
que puedan utilizarse para
proteger los activos de la
organización y usuarios del
ciberentorno.



### Ciberseguridad es el elemento clave en:

- La toma se decisiones
- El diseño de Sistemas
  - El desarrollo de nuevas tecnologías en la 4ta. Revolución Industrial.



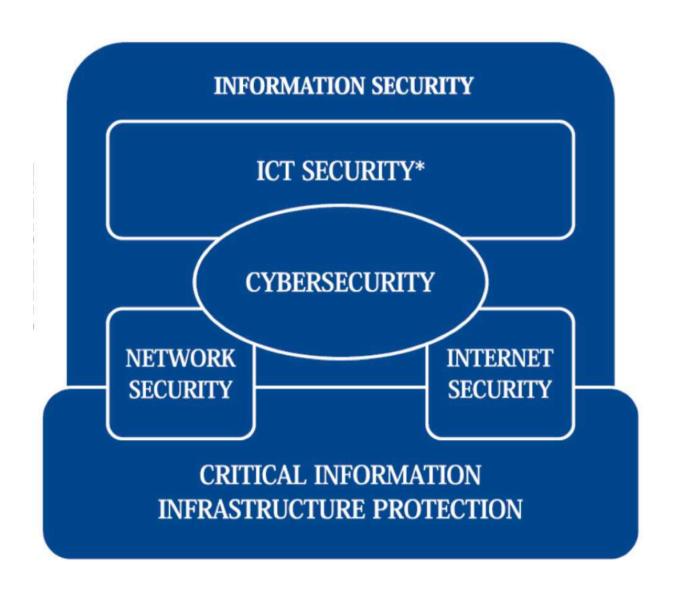
### CyberSecurity is Strategy

#### **Defining Cybersecurity**

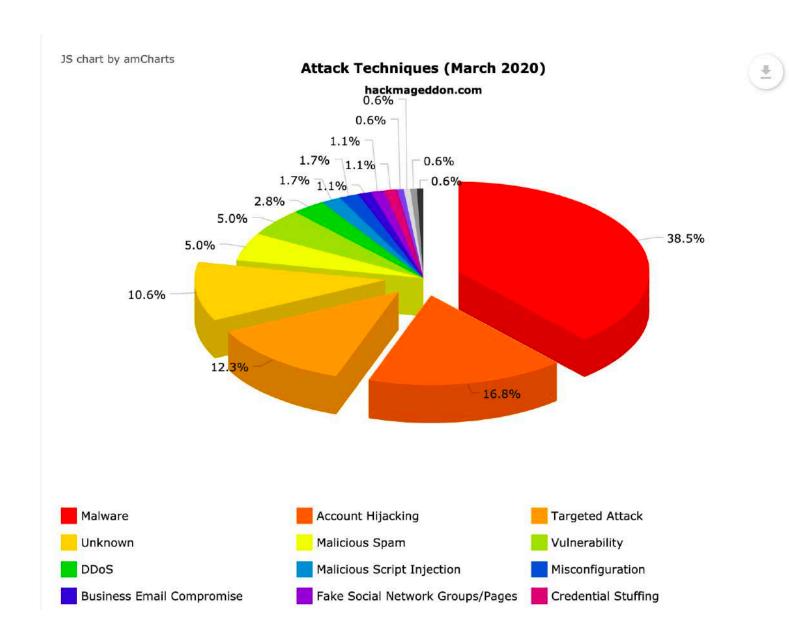
Dan Craigen, Nadia Diakun-Thibault, and Randy Purse

"Cybersecurity is the organization and collection of resources, processes, and structures used to protect cyberspace and cyberspace-enabled systems from occurrences that misalign de jure from de facto property rights."

ISO 27k family
ISO 270032
Cybersecurity

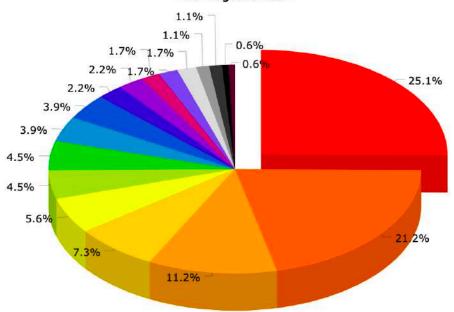


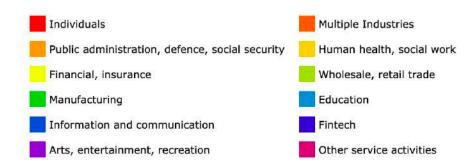




#### Targets (March 2020)

#### hackmageddon.com







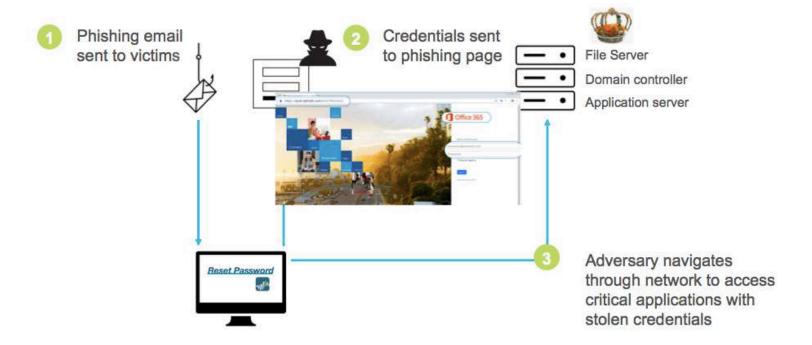


Ransomware due to Pishing Scam

#### 90% of companies vulnerable to email spoofing

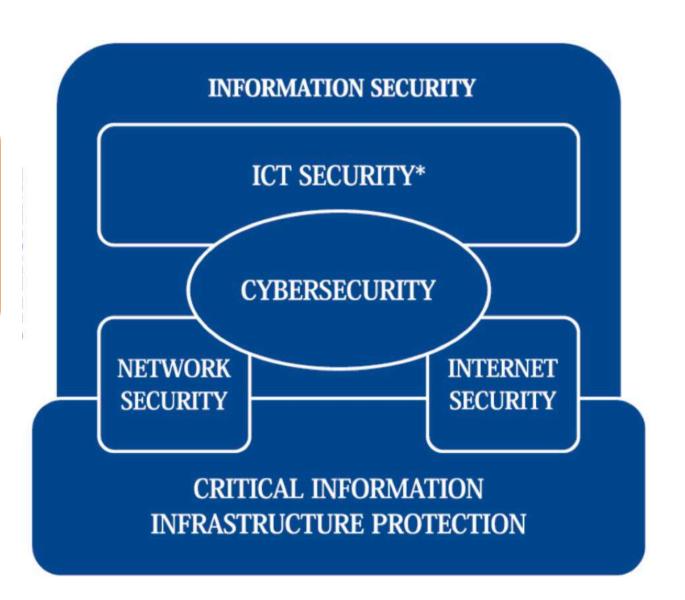


#### ANATOMY OF A CREDENTIAL THEFT-BASED ATTACK





Usar Standard ISO-27000



### Adoptar un Marco de Referencia en Ciberseguridad NIST 1.1

#### **NIST Cybersecurity Framework**

#### Identify

- AssetManagement
- Business Environment
- Governance
- RiskAssessment
- RiskManagementStrategy

#### **Protect**

- Access Control
- Awareness and Training
- Data Security
- Info
   Protection
   Processes and
   Procedures
- Maintenance
- Protective Technology

#### **Detect**

- Anomalies and Events
- Security
   Continuous
   Monitoring
- Detection
   Processes

#### Respond

- Response Planning
- Communications
- Analysis
- Mitigation
- Improvement

#### Recover

- Recovery Planning
- Improvements
- Communications



1/1:

# How many browser tabs do you have open right now?

a.	Just this one.
b.	I've lost count.
C.	A few.
d.	I don't know what a tab is.

A friend is coming over to watch a movie. Where are you most likely to watch it?

a.	On whatever site it streams on for free.
b.	On a user-generated video platform like YouTube.
C.	On a streaming service like Netflix, Hulu or Crave.
d.	From a digital catalogue, like on iTunes, or your local library.

### Which security question do you usually pick?

a.	What is your pet's name?
b.	What was the name of your primary school?
C.	What is the name of the hospital you were born in?
d.	What is the first name of the first person you kissed?

# Your phone's battery is running low! How do you charge it?

a.	Ask to borrow a charger from someone nearby.
b.	Use my own portable battery charger and cable.
C.	Wait till I get home.
d.	Use a free public charging station.

### What do you usually share on the internet?

a.	Interesting articles, funny memes, whatever I think other people should see.
b.	Nothing.
C.	I essentially livestream my entire life.
d.	Updates related to my professional life.

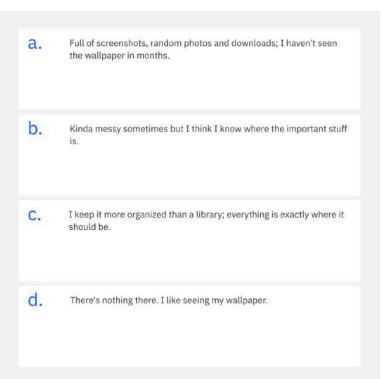
You're hosting a party at your house. How do you get the word out?

a.	Create a private event and invite people.
b.	Direct message, text or email.
C.	Make a public post and tag everyone in it.
d.	Send an end-to-end encrypted message.

"Updates are ready to install."

Drop everything and update right now.
Don't remind me again.
Remind me tomorrow.
I'll do it once I finish this thing.

## What does the desktop of your computer look like?



### How do you back up your computer?

a. I use an external hard-drive, every once in a while.
b. I make folders of my desktop on my desktop.
c. I keep everything in the cloud or schedule backups to the cloud.
d. I don't need to keep a backup.

## Who knows the password to your main email account?

a.	Only my password manager.
b.	Some of my family members.
C.	Just my best friend.
d.	Only I do.

## How do you unlock your phone?

a.	Pattern.
b.	Fingerprint or face.
C.	It's always unlocked.
d.	Pin.

### How many passwords are you reusing?

- I have one where I switch up characters and add in numbers and symbols here and there.
- b. All of my passwords are completely randomly generated.
- C. Just the one.
- I have two or three I cycle through.

You're signing up for a new service and need to create a username. Which do you choose?

a.	Completely random letters and numbers.
b.	My email address.
C.	The username I use on every account.
d.	My initials.





#### •SECURITY THROUGH EDUCATION





# School of Cybersecurity Training

by CyberIIoT

Servicios de DISEÑO DE PROGRAMAS Y CONTENIDO ACADEMICOS BACHILLERATO, LICENCIATURAS, MAESTRÍAS Y DOCTORADOS

.MATERIAS PARA ESPECIALIDAD
.MATERIAS PARA CERTIFICADO.
DIPLOMADOS
.CERTIFICACCIÓN SCCISP OFICIAL
TRANING CENTER





#### CERTIFICACCIÓN SCCISP OFICIAL TRANING CENTER

The SCCISP Certification offers professional recognition, and an industry recognized credentialed career pathway for Cyber and Privacy professionals working within the IoT-IIoT Smart Cities and Critical Infrastructure sectors.



- Welcome to the SCCISP Foundation Course
- <u>Introduction to IoT Systems</u> and Technologies
- Industry 4.0 and 5G
- Resilience In A Connected World

- Privacy and Data Protection
- Industrial Control Systems
- Security Architecture
- loT Security Pentesting
- Physical Security
- <u>IoT Security Institute</u>
   Framework







facebook.com/CyberlIoT2





School of Cybersecurity Training

by CyberIIoT

https://www.linkedin.com/groups/13860813/

https://www.linkedin.com/company/65517086/