

# Multiplicando la Inteligencia

Inteligencia de Amenazas para una mejor respuesta

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¡Mucho gusto!



# #whoami

- Una fork en GitLife que seguro será mucho mejor software!
  - **Padre**
- `cat /dev/sec | grep * >> /dev/mind`
  - **Curioso**, muy curioso, navegante compulsivo
- `hexdump /tmp/life/* >> /dev/mind`
  - **Nerdo** [ sí, para mí “nerdo” es un cumplido... ]
- Ex-multicertificado, ex-**CISA** (ISACA), ex-**PCI-P**, ex-**CCNP Security** (Cisco)
- Ex **IBM**, ex **CERTuy**, ex **Deloitte**, ex CTO, ex CISO, ex COO, ...
  - “`wc -l ~/.history`” da un número más grande de lo que quiero reconocer...
  
- Gerente de Operaciones en **SABYK**
- Docente en **Universidad ORT Uruguay**









Les cuento un secreto...

30 JANVIER

*Le cadeau toujours apprécié*

PARIS

DÉLIVRE  
PARIS

FRANCOIS

TERRE FRANÇAISE

LA FRANCE  
INDÉPENDANTE

Un poco de historia

Inteligencia

LES 3 COUPS

LA FRANCE

# The fog of war

Carl von Clausewitz





# The Cuckoo's Egg

Cliff Stoll

The image shows two men in a server room. They are leaning over a desk, looking at several computer monitors. The monitors display various data visualizations, including a world map with network connections, a flowchart, and other data tables. The room is dimly lit, with the primary light source being the blue glow of the screens. The man on the left is wearing a white shirt, and the man on the right is wearing a dark suit jacket and glasses. The overall atmosphere is professional and technical.

# Ciberinteligencia

¿De qué hablamos?



# Indicadores de Compromiso



Datos

Negative Powers

$$\int x^{-3} dx = \frac{x^{-2}}{-2} + C = \boxed{-\frac{1}{2x^2} + C}$$

$$\int \frac{1}{x^2} dx = \int x^{-2} dx = \frac{x^{-1}}{-1} + C = \boxed{-\frac{1}{x} + C}$$

$$\int x^{-1} dx = \ln|x| + C \quad (\text{if power is } -1)$$

$$\int \frac{1}{4x} dx = \frac{1}{4} \int \frac{1}{x} dx = \frac{1}{4} \int x^{-1} dx = \boxed{\frac{1}{4} \ln|x| + C}$$

Fractional

$$\int x^{2/3} dx = \frac{x^{2/3+1}}{2/3+1} + C = \frac{x^{5/3}}{5/3} + C = \boxed{\frac{3}{5} x^{5/3} + C}$$

# Inteligencia

Datos + Análisis (y si me permiten, contexto)

$$\int \sqrt{x} dx \quad \int \sqrt{x^3} dx \quad \int \sqrt[3]{x^2} dx$$

$$\int x^{3/2} dx = \frac{x^{3/2+1}}{3/2+1} + C = \frac{x^{5/2}}{5/2} + C = \frac{2}{5} x^{5/2} + C$$
$$\int x^{-3/2} dx = \frac{x^{-3/2+1}}{-3/2+1} + C = \frac{x^{-1/2}}{-1/2} + C = -2 \frac{1}{x^{1/2}} + C = \boxed{-\frac{2}{\sqrt{x}} + C}$$



POLICE LINE DO NOT CROSS

Investigación de Incidentes

POLICE LINE DO NOT CROSS



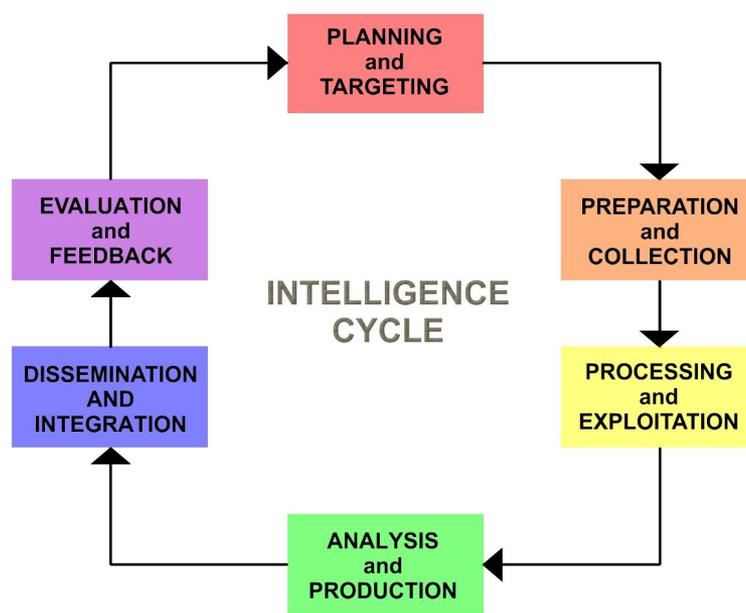
# Honeypots y Señuelos



A person wearing a dark hoodie is seen from behind, sitting at a desk in a server room. The room is dimly lit with a strong blue glow from the computer monitors and server racks. Several monitors are visible, displaying various data, code, and graphs. The person appears to be working or monitoring the systems. The overall atmosphere is mysterious and technical.

Fuentes oscuras...



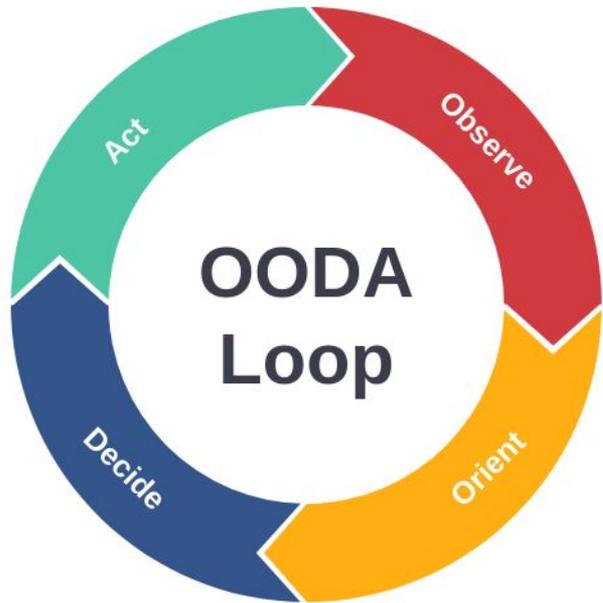


# El ciclo de Inteligencia

(¿Corregido?)

The background features a dark blue gradient with scattered binary code (0s and 1s) in white, red, and blue. Overlaid on this are several wavy, dotted lines in shades of blue, green, yellow, and red, creating a sense of motion and data flow.

# Colección y Proceso



### Observe

What is the current situation? What is the reason you want to change? how bad do you want to change?

### Orient

Where are you currently at relative to where you want to go? How far is it to your destination?

### Decide

What is the exact path you are going to take? How are you going to handle challenges and set backs?

### Act

What's the approach and method you will take to implement the decisions? What is your action plan?

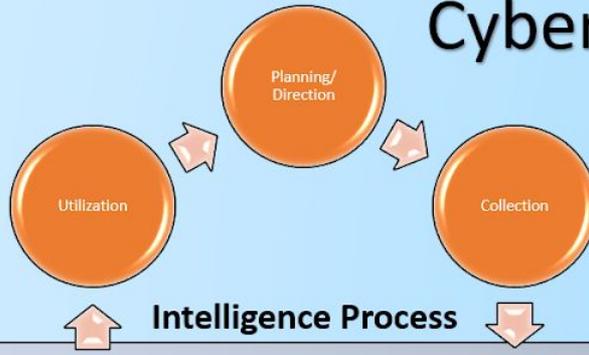
El bucle OODA



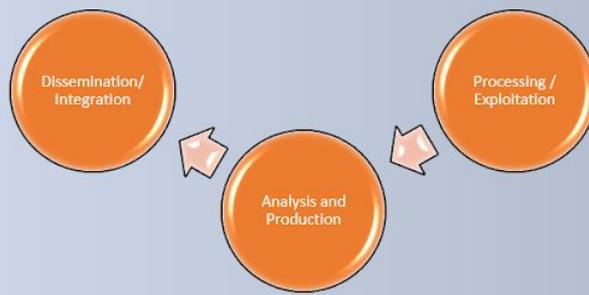
¿Y a mí qué?

# Cyber Intelligence Process Integration

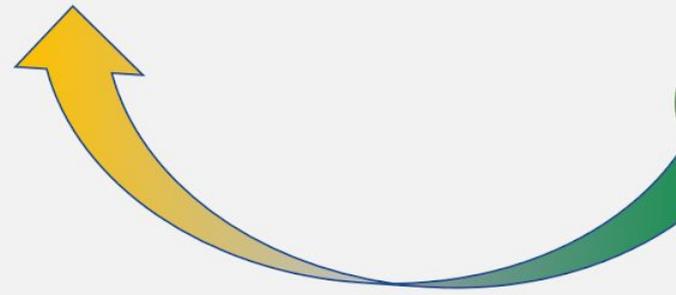
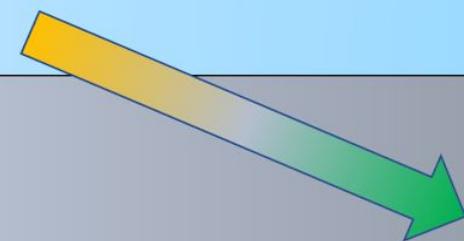
Strategic Level



Tactical Level



Operational Level



# The Cyber Kill Chain and F3EAD

Phase 1: Preparation

Phase 2: Intrusion

Phase 3: Breach

How do we limit the exposure of our critical information?

How can they exploit vulnerabilities to these systems?

How do we monitor for malicious payloads and exploitation attempts?

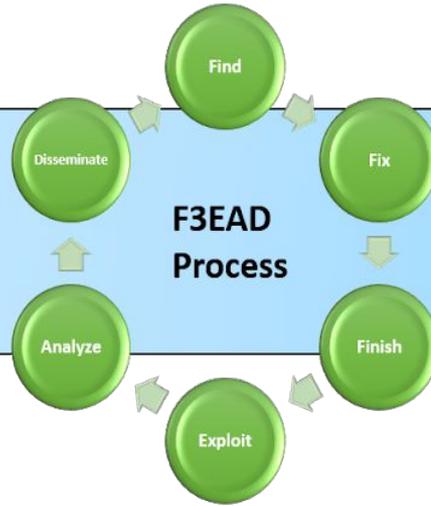
Who has the administrative privileges to install software?

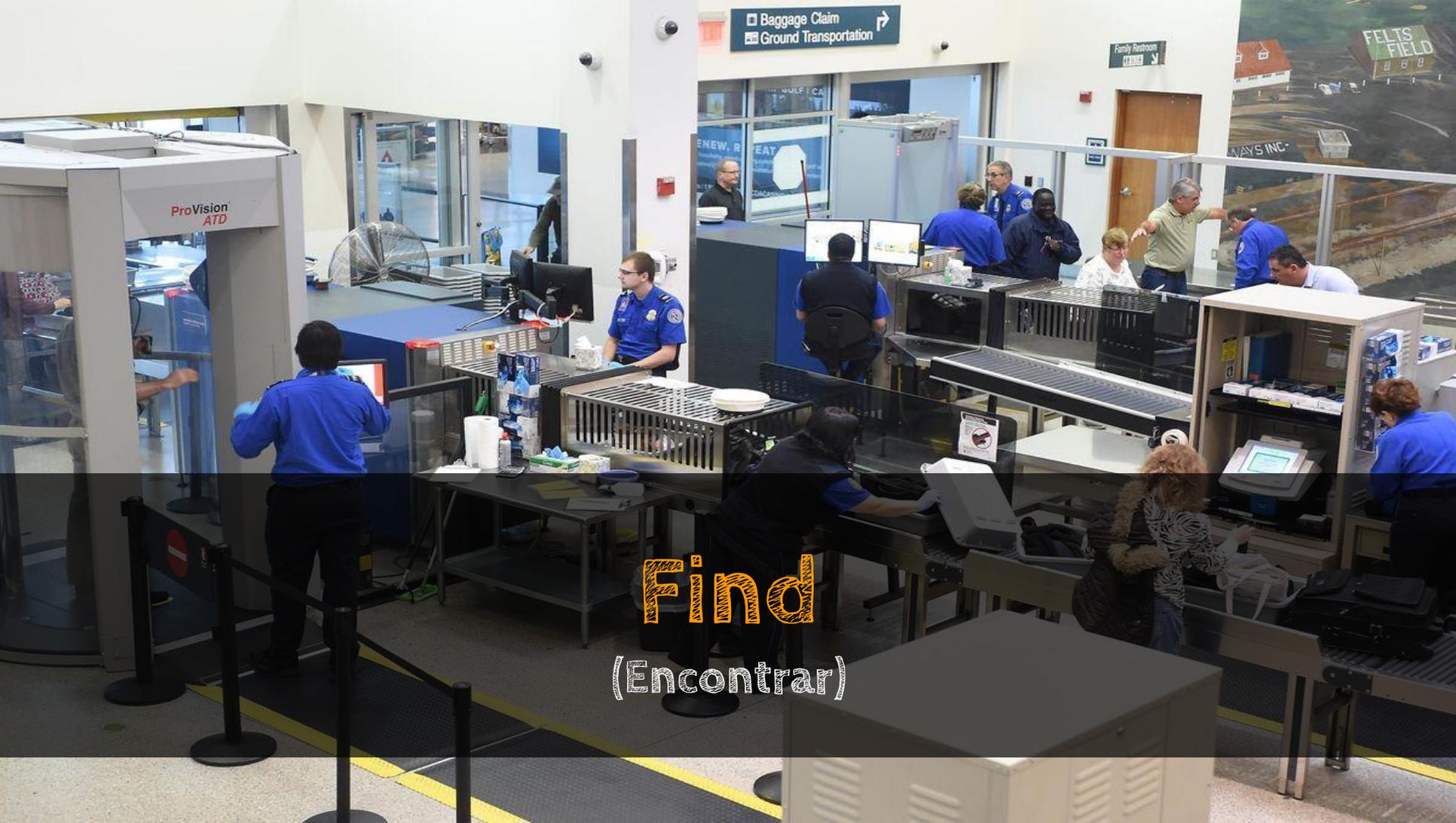
How do we monitor for privilege escalation?

How do we monitor for data exfiltration?

How well can we respond to a breach?

Operational Level



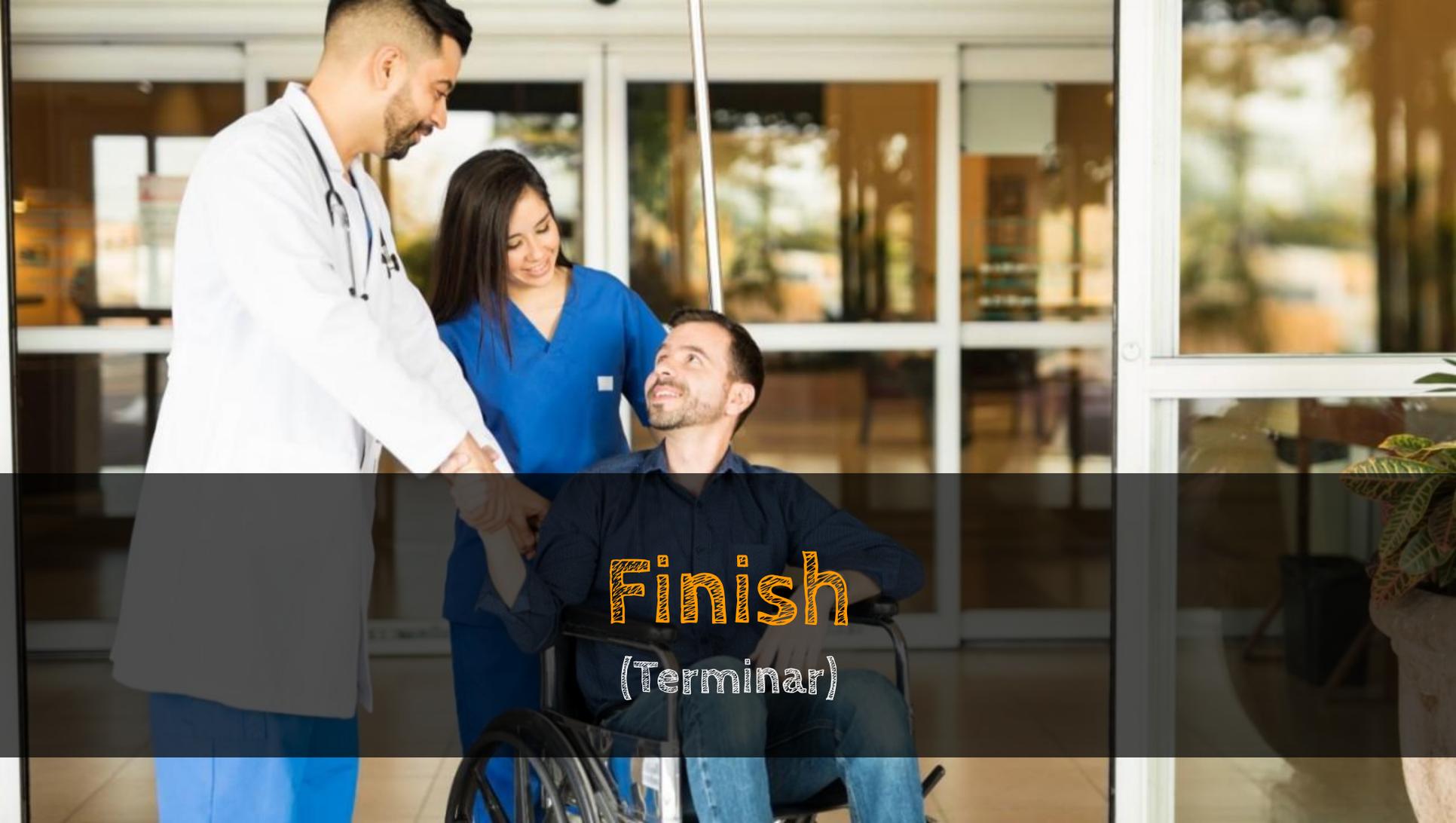


Find  
(Encontrar)



**Fix**

(Reparar)



Finish

(Terminar)



Exploit

(Explotar)



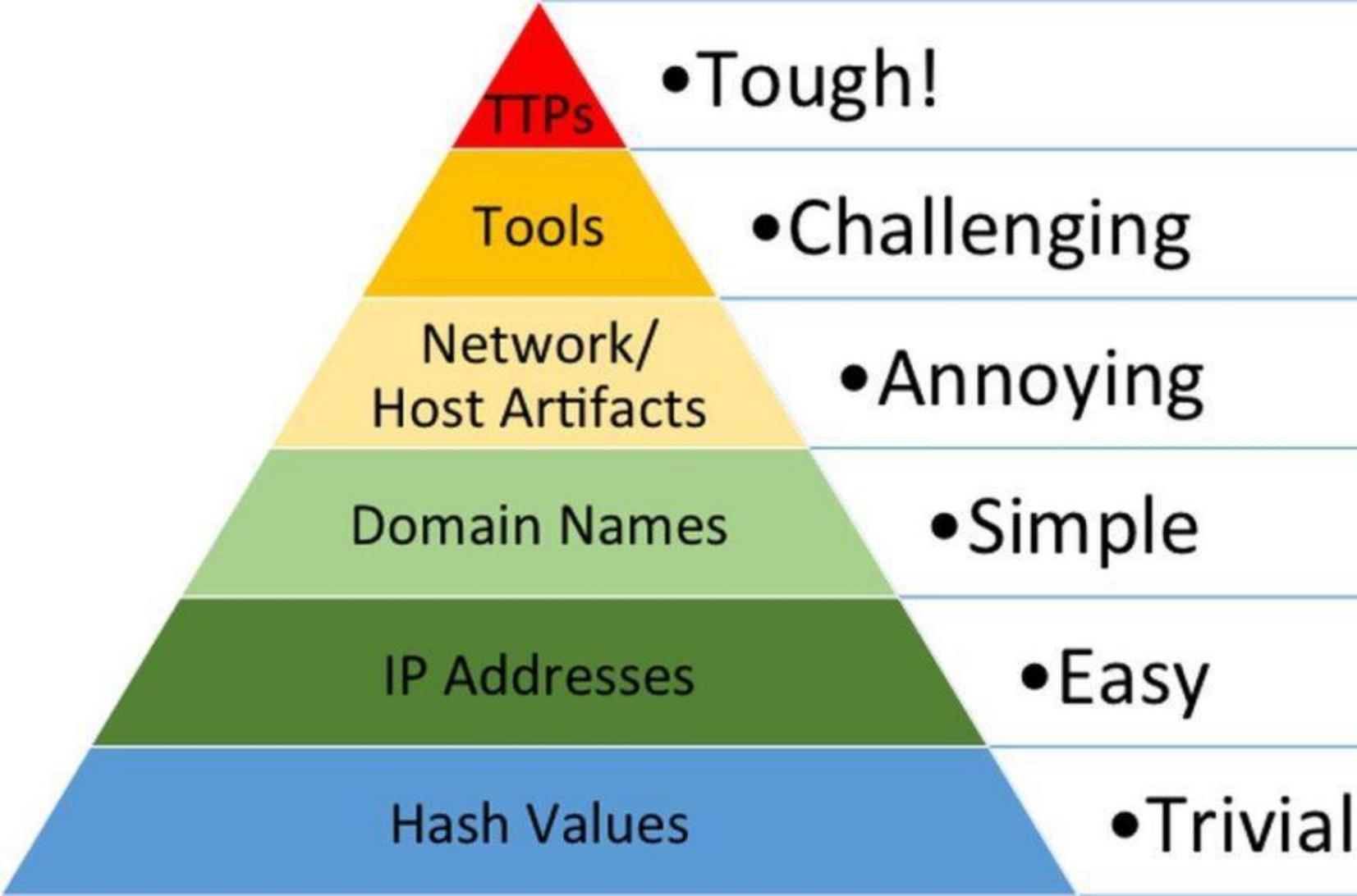
# Analyze

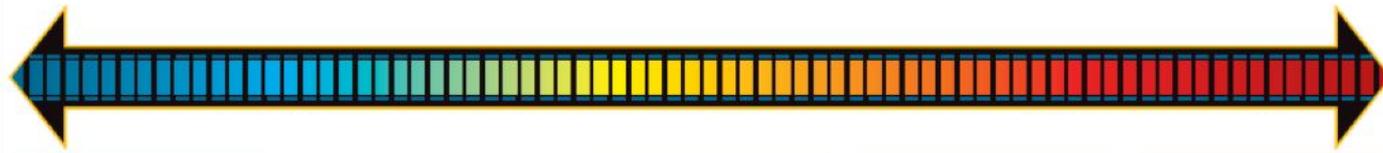
(Analizar)



**Disseminate**

(Diseminar)





## ARCHITECTURE

The planning, establishing, and upkeep of systems with security in mind

## PASSIVE DEFENSE

Systems added to the Architecture to provide reliable defense or insight against threats without consistent human interaction

## ACTIVE DEFENSE

The process of analysts monitoring for, responding to, and learning from adversaries internal to the network

## INTELLIGENCE

Collecting data, exploiting it into information, and producing Intelligence

## OFFENSE

Legal countermeasures and self-defense actions against an adversary

# Defensa Activa

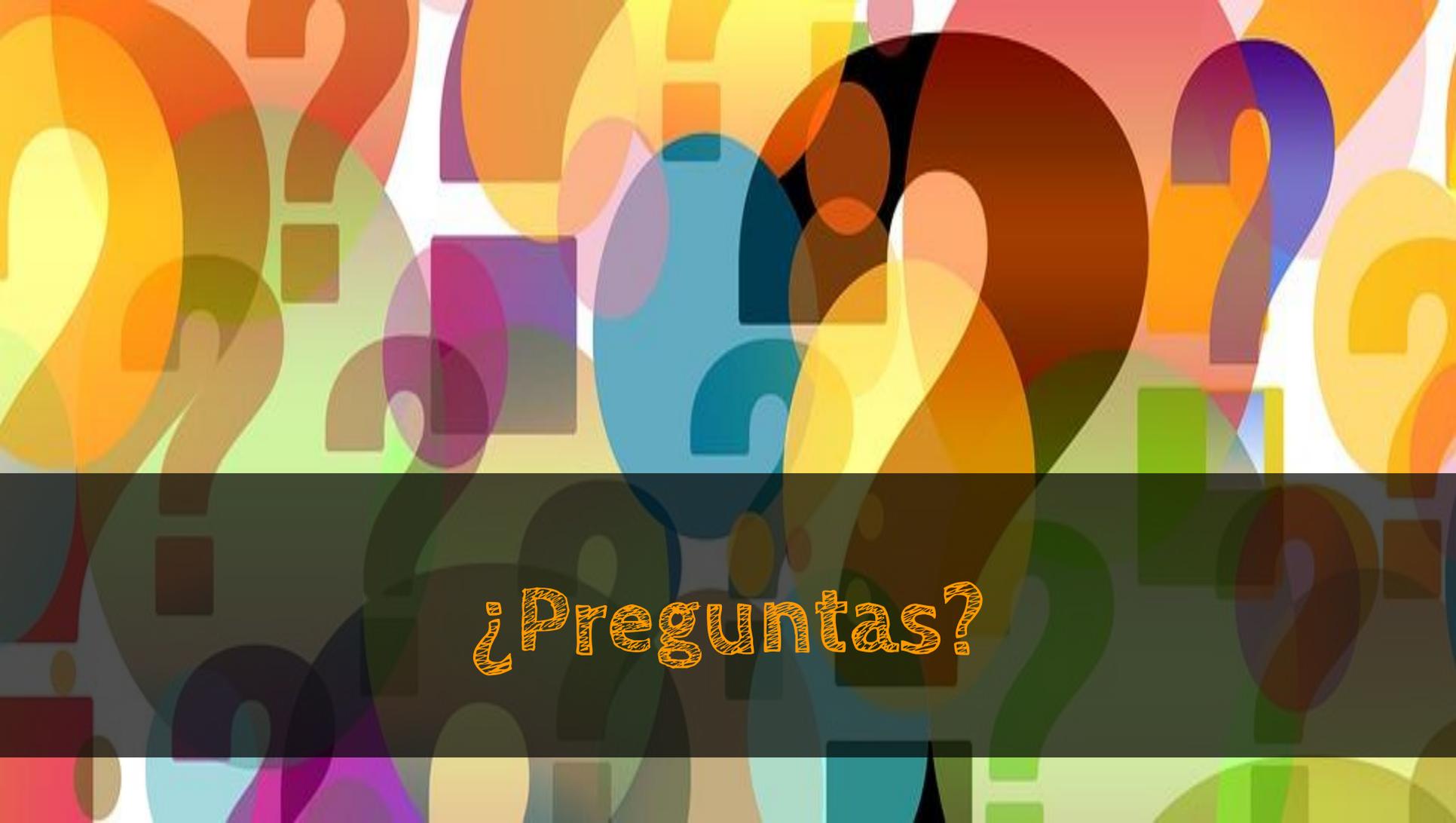
Martes 29 - Taller Sala Verde (P2) - 13:30

## **Inteligencia de amenazas mediante fuentes abiertas**

*Gonzalo Nina*



**¡No se lo pueden perder!**



¿Preguntas?

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