

# SecOps

Digital Technology Service

# Agenda



- Who are we
- Overview
  - Cybersecurity in number
- Sorint's Tailored Journey
  - SecOps
  - The Process
  - Detecting & monitoring
  - Penetration
  - Sorint4Security
  - Experts Involved
  - Certifications
- Success Stories
- Bonus slide - Related by Sorintains
- Going Forward

**17** Offices  
**3** Continents

## EUROPE

Milan, Rome, Bergamo, Turin, Padova,  
London, Madrid, Frankfurt, Paris,  
Wroclaw, Brasov, Bologna, Lecce

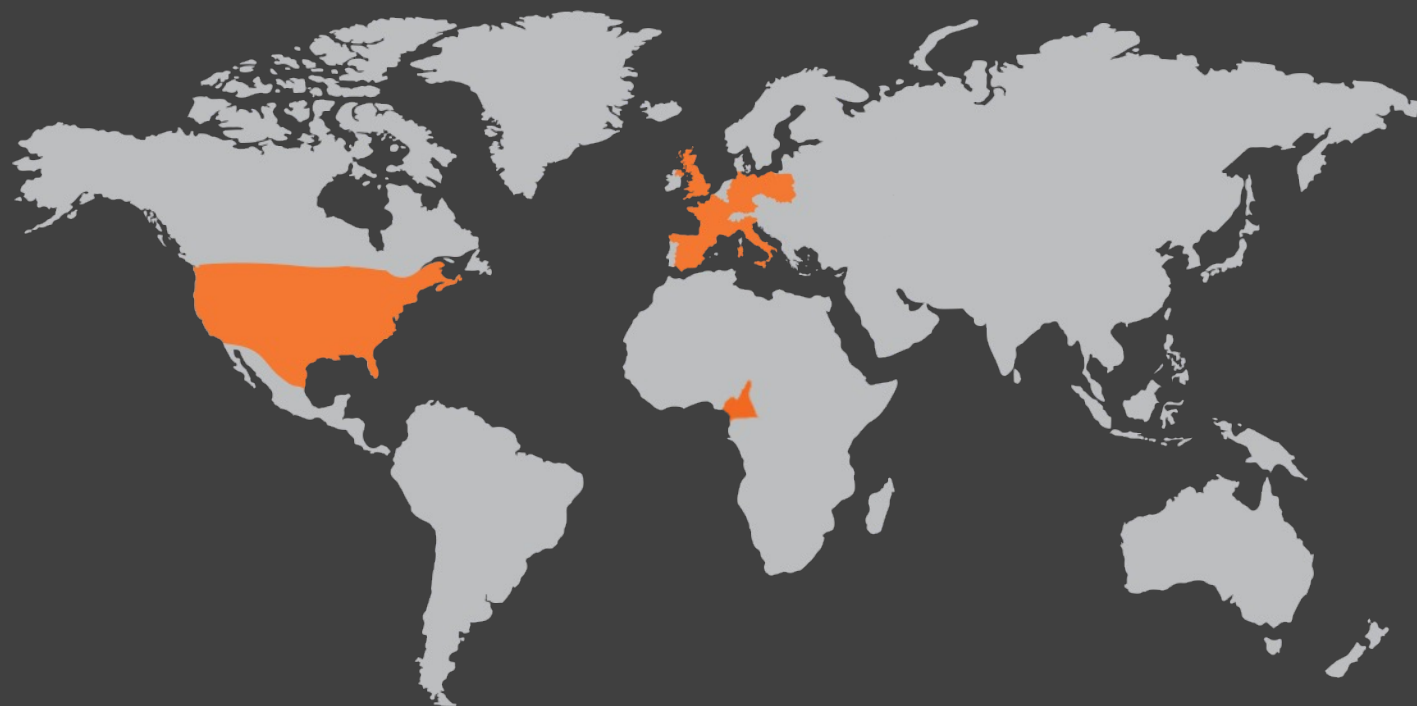
## USA

San Diego

## AFRICA

Douala

## Other Business Units



# Overview Facts

**900+**

## Tech-Savvy

Cloud Engineers  
SREs  
DevOps Engineers  
Full Stack Developers



**+40000**

Training  
hours  
per year



**50+**

Technical  
Sircles



## Methodology

ISO 27001  
ISO 20000  
ISO 9001  
ISO 14001



## PM Methodology

Prince2  
PMI  
Agile  
SCRUM/UX



**35+**

Years of  
experience  
with a  
Startup mindset



**250+**

Large Enterprise  
Customers



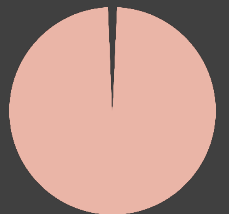
## Market

Finance & Insurance,  
Utility & Telco,  
Industry & Services,  
Transport,  
Public Administration



**98%**

Customer  
Retention  
Rate



INTESA  SANPAOLO



Clients



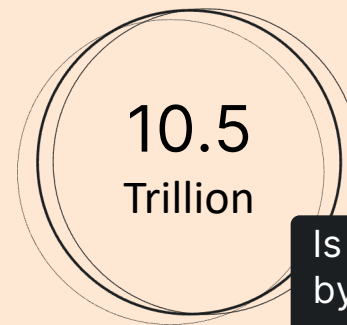
Technology Partners

# SecOps

## Digital Technology Service



- SecOps framework involves integrating security practices, principles, and tools to ensure a more proactive and comprehensive approach towards cybersecurity.
- Aiming to enhance an organization's capability to identify, address, and alleviate security incidents and vulnerabilities.
- Some of the key components and activities might include
  - Security information and event management (SIEM)
  - Security awareness and training
  - Network security monitoring (NSM)
  - Endpoint security
  - Vulnerability management
  - Incident response (IR)
  - Threat intelligence
  - Access control



Is the inflicted damage by cybersecurity by 2025. From 6 trillion in 2021. 15% yearly growth.

\*Cybersecurity Ventures Magazine

# A raised concern

## Cybersecurity attacks in numbers



### 45% small businesses

Organizations of all sizes are target.

### Phishing 36% of breach

The technique emphasizes the need of internal staff training.

### \$20 billion in 2021

Cost of ransomware could lead to financial distress or bankruptcy in some cases.

\$265 billion **by 2031**

### Healthcare 45% increase

Highlights the importance of customer's data.

### 30% increase on remote workers

Covid 19's work from home initiative opened doors for more security vulnerabilities.

### Average cost increased 42%

Over the last 3 years. The average cost of cyberattacks increased 42%.

### 25 billion connect device

By 2025

Indicated more security vulnerabilities and measures.

### CEOs 86% responsible

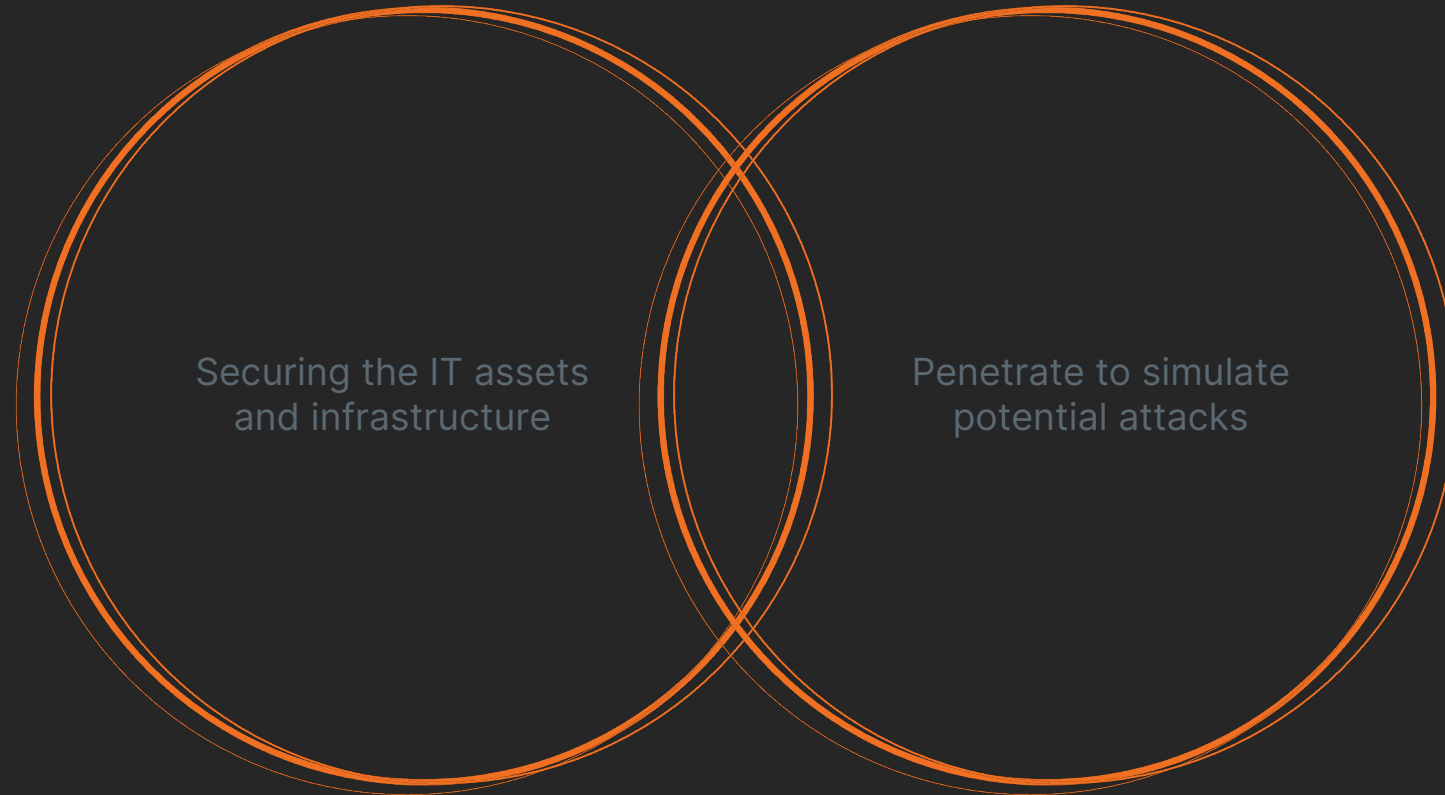
Due to the severe impacts that could emerge.

Respondents of a study held 86% responsible to c-level management.



# SecOps

Relationship lies in their shared goals



Also known as team blue & team red

Readiness & 360° view of security posture

# Sorint's Tailored Journey

High-level overview



## We design & analyse

We design security architectures that can integrate into the customer's infrastructure with minimal overlap and maximum effectiveness.

## We deliver

We deliver security technologies and services that provide end-to-end visibility through the effective and efficient implementation of integrated architectures.

## We manage

24/7, we take care of our customers' security by maximizing the return on their investment in Cyber Security.

## We observe

Through our Cyber Threat Intelligence services, we observe the digital footprint of companies in the Deep and Dark Web as well as in the Clear Web.

## We assess

Our red team services allow you to check how resilient security infrastructure is with the eyes of attackers.

# Sorint's Tailored Journey

## Monitoring and detecting - The make it model



### Risk assessment

Identifying, evaluating, and understanding potential threats on infrastructure, systems, network, data, and running apps.

### Threat analysis

Deeper understanding of the potential risks, domain, and characteristic.

Threat Intelligence (CTI) platforms  
Malware analysis tools

### Prevention measures

All proactive activities to mitigate potential risks and solidifying the security posture.

EDR, firewalls, multi-factor authentication systems, data encryption systems

### Monitoring

Regular monitoring of IT infrastructure

Intrusion Detection Systems (IDS)  
Intrusion Prevention Systems (IPS)  
Security Event Management Systems (SIEM)  
Application Firewalls (WAF)  
Cloud and Containers Security

### Collaboration

Smooth flow of communication between all stakeholders

Security case management platforms (Ticketing tools),  
Document management systems.

### Incident response

Protocols designed to effectively manage and reduce the impact of /prevent security incidents as they happen.

Incident response systems  
Incident orchestration platforms (SOAR).

### Reporting

Reporting tools and documentation practices.

### Consulting and support

Continues support in all security related matter.

Ensure stakeholders are aware of the fundamentals/protocols.

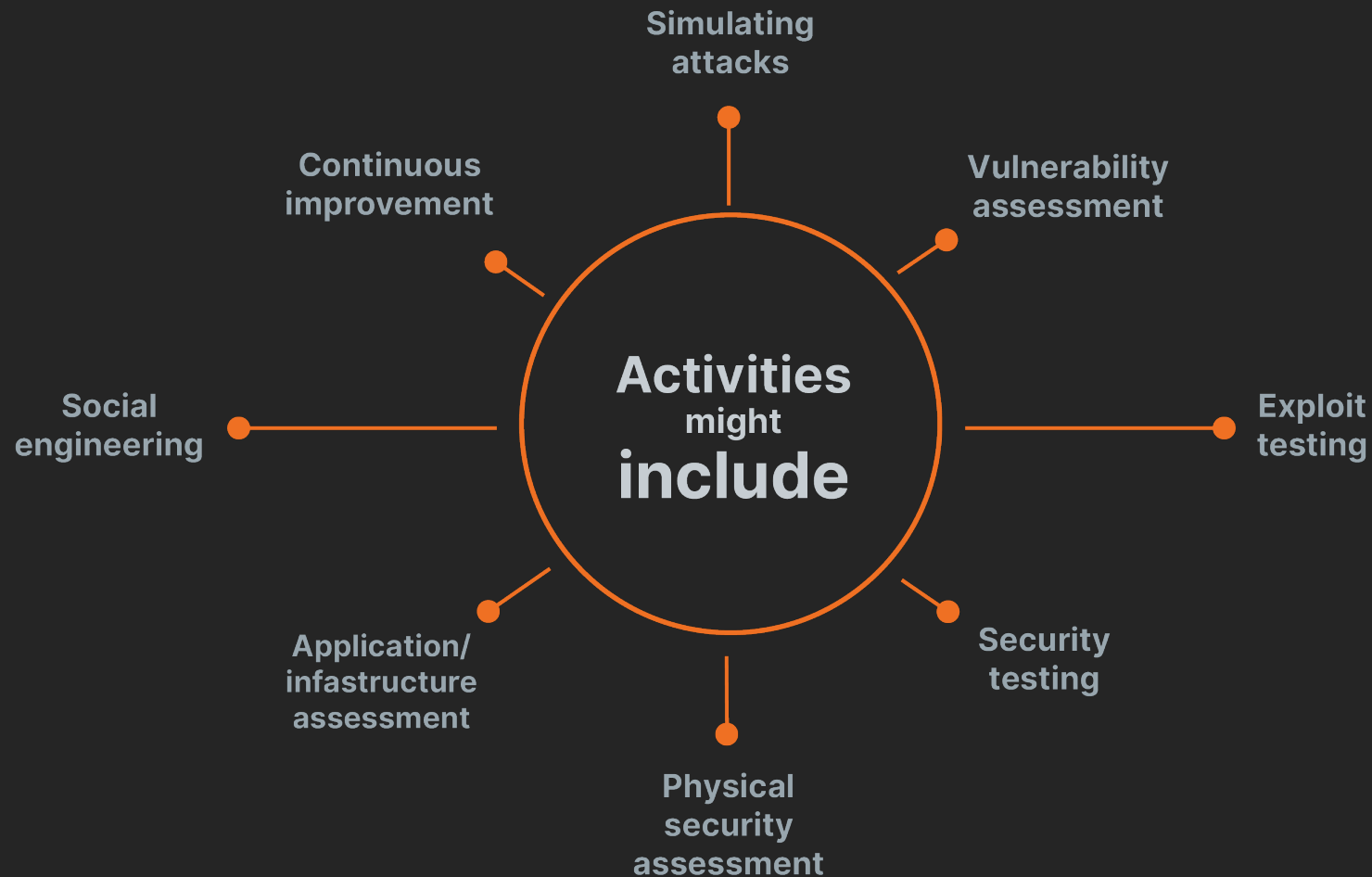
Knowledge management systems  
Online training tools

Supporting the IT operations team to ensure that security processes are properly integrated into daily operations

# Sorint's Tailored Journey

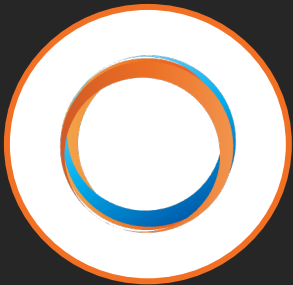
Penetration - The make it model

Staying ahead of emerging threats and outpacing intrusion attempts



# Sorint4Security

Mastering cybersecurity since mid-1990s



Dedicated circles  
targeting various areas  
of security



Legend team in the  
field



Training hours



Fully handling security  
activities of prominent  
entities, in various industries,  
in Europe, US, and Africa.



Community support &  
developed various  
open-source security  
related tools



24x7x365 days support



Highest field  
accreditation



Hands-on tools  
experience and  
accreditation

# Experts Involved



## Senior masterminds

### Davide Chinnì



Cyber Security Analysts | Incident Responder | SecOps Specialist

+10 years of experience in network & cyber security. Cyber security enthusiast

### Cesare Pizzi



Reverse Engineer | Incident Responder | Opensource Developer and Contributor

CTF player, trainer, regular speaker at DEFCON, Insomni'hack, Nullcon

### Luca Famà



Application Security Consultant

+7 years of experience in the security field. CTF player, bug hunter and cyber security enthusiast.

## Some prestigious certifications



# Some Prestigious Certificates



From technology/vendor, skill levels, IT domains/specialization, to vender-neutral certifications

3CX  
6sigma  
Aerohive  
Aerohive Networks  
Alison  
ALTARO  
Amazon  
AMPG International  
APMG  
Apple  
Aruba  
AXELOS  
Barracuda  
BIT  
Blue Team  
BMC  
Brocade  
Business Objects  
CEPIS  
CertProf  
Check Point  
Cisco  
Citrix  
Cloud Champion  
Cloudera  
Cobit

COMMVAULT  
Company Tutor  
Compaq  
CompTIA  
CROSSNOVA  
CSSC  
Cyberark  
D-LINK  
Databricks Academy  
DataCore  
DELL EMC  
Devops Institute  
Dynatrace  
Ec-Council  
ECDL  
Edx  
eipass  
Elastic  
eLearnSecurity  
EMC  
EnterpriseDB  
enVision  
EUCIP  
EXIN  
Extreme Networks  
F5

FacilityLive  
FinOps Foundation  
FireEye  
ForeScout  
FORTINET  
GIAC  
GitLAB  
Google  
Google Cloud  
Google Play Academy  
HashiCorp  
Hazelcast  
Hitachi  
HP  
Huawei  
IBM  
Infoblox  
INIM Eletronics  
Istituto Italiano di Project  
Management  
ISTQB  
Juniper  
Konnex  
Lacework  
LibraEsva  
Linux Foundation  
Linux Professional Institute

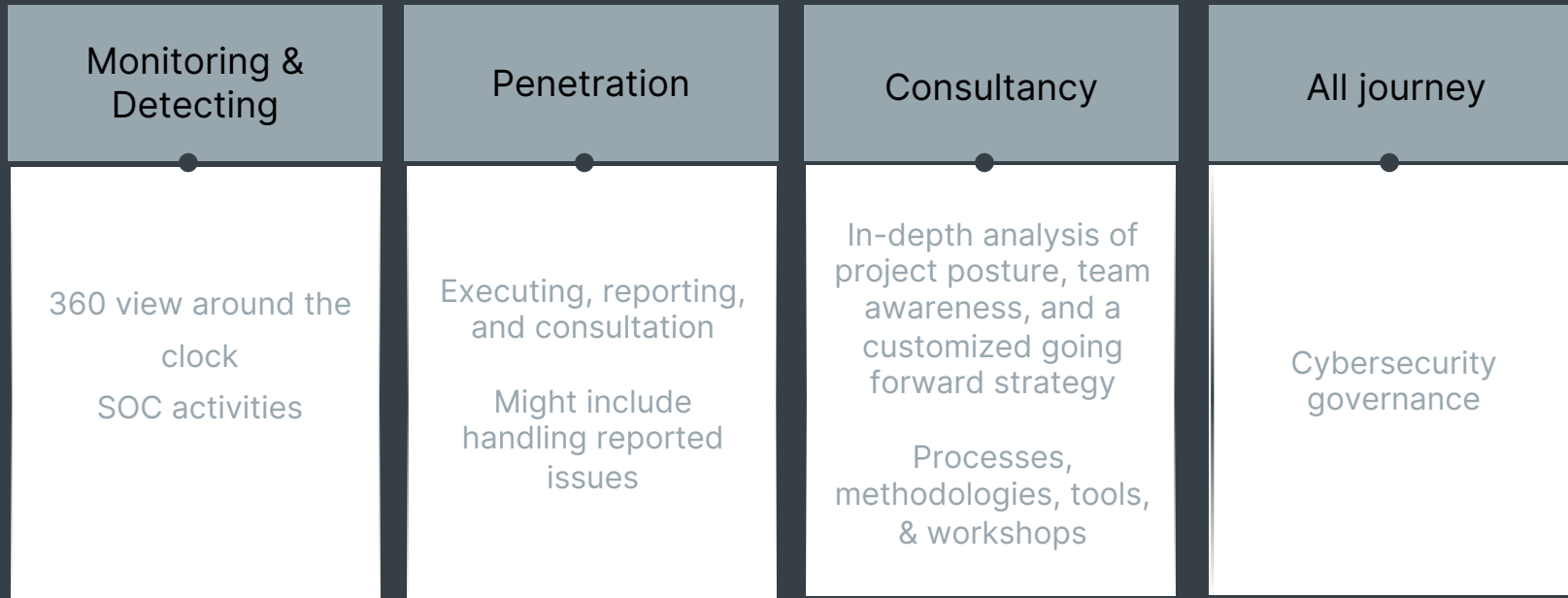
MariaDB  
Meru  
MIA-PLATFORM  
Microsoft  
MikroTik  
MongoDB  
Neo4j  
NetApp  
Netscreen  
Netskope  
Netwitness  
NETWRIX  
Novell  
NUTANIX  
ObserveIT  
Offensive Security  
OpenSecurityTraining2  
ORACLE  
Palo Alto  
People Cert  
PMI  
Qualys  
Rancher Academy  
Red Hat  
Reevo Cloud Academy  
Reuters

SCP  
Scrum Alliance  
Scrum.org  
ScrumStudy  
SonicWall  
SOPHOS  
Splunk  
Stormagic  
Sun  
SUSE  
Symantec  
TERADATA  
Toshiba  
Trend Micro  
Triton  
Veeam  
Vendor  
Veritas  
VMware  
WatchGuard  
WatchGuardONE  
WEBROOT University  
ZERTO  
ZyXEL

ISO 27001  
ISO 20000-1  
ISO 9001  
ITIL

# Closer Look

Areas and field of focus





# Success stories



Delivered by: Sorintians



Confidential

## Technology Industry

### EDR Solution, Design, & Implementation for All Endpoints

#### **Challenge**

Find, configure, and deploy an EDR (Endpoint Detection & Response) tool. Thousands of endpoints.

- Windows environment ([CrowdStrike](#))
- Linux environment ([SentinelOne](#))

#### **Going forward**

Investigation phase focused deeply on analysing client's infrastructure & evaluating possible relevant tools.

Resulting in a group of POCs and tests. Along with a clear deployment proposal.

#### **Accepting the challenge - Solution and Implementation**

After the tool selection phase. The deployment phase included activities such as:

- Automation system to convert detections into a streamlined ticketing process.
- Developed customized scripts to accelerate forensic collection & forensic analysis of the endpoint.
- Configuring the EDR in compliance to client's standards/policies.

Activities aiming to provide real-time visibility of the detected threats and isolating them from the network. Providing accurate analysis.

- Introduced a streamline process on how threats are handled through automation. Elements including identification, scanning, where and how to operate on the threat(isolated-manner, or on the network), malicious pattern against YARA rules, incident timeline, recovery resetting/rebuilding, etc..

#### **Result & delivery**

- Successful deployment.
- Documentation & reporting activities.
- Testing activities not only to validate, but also to prototype to the client.
- SecOps circle has been granted long-term support, maintenance, and monitoring to the solution.

# Success stories



Delivered by: Sorintians



Confidential

## Technology Industry

### Implementation and Management of a SIEM Solution

#### Challenge

A SIEM tool able to:

- Handle huge number of logs arriving from client's endpoints.
- Automate tasks to support client's SOC and NOC workflows.

#### Going forward

Evaluating client's SOC and NOC workflow during the tool selection phase. Closely aligning with client's internal team.

#### Accepting the challenge - Solution and Implementation

Following the evaluation process and the agreement on the proposal submitted. SIEM Elastic was the go-to-choice due to the capability of being a modular/unified, scalable, and on top, being an open-source solution. Importantly, allowing SOC analysts to conduct swiftly analytical security events. Furthermore, the implementation phase carried out activities like:

- Identifying the data source.
- Implementation of data ingestion.
- Monitoring volume alerts during staging phase.
- Built-in detection rules and the addition of IoC through integration of one or more threat intelligent feed.

#### Result & delivery

Within the agreed timeframes, a high-quality software product that fully complied to all pre-planned requirements. E.g.

- Multi-functional user role system.
- Monitoring thousands of end-points.
- Improved user interface.
- Optimized performance.
- Quality code due to a solid code reviews strategy.

# Success stories



Delivered by: Sorintians



Confidential

## Reporting Major XSS Bug Vulnerability To UpdraftPlus Black-box Penetration Testing – WP extension

### Challenge

While carrying out penetration test activities to a client's web solution. Our security team were able to detect a critical XSS bug for the extension WP-Optimize (+1 million active installation). Developed by Team UpdraftPlus. A well-known WordPress plugin.

### Going forward

The bug was documented & reported to the providers.

### Accepting the challenge - Solution and Implementation

As a summary, the challenge was complicated to proof. It required tools/extensions (WPScan, WordFence Security, and others) several attempts, injecting payloads, probing the search function using Burp Intruder as an attack type, plus refining the tactics of the attacks. After few attempts, we were able to get the XSS-reflected payload.

The team was able to analyse how the WebP-Conversion option causes a flow during the process of converting HTML entities to the reserved HTML characters. Clearly an issue. Attackers can inject malicious input encoded using HTML entities and `str_get_html` function. The function will convert it back to actual HTML tags, where the browser will be able to render it. Bypassing Wordfence filtering, which happens before the `str_get_html` function.

### Result & delivery

- Bug was documented and reported to the providers immediately after Sorint's internal security review process.
- Vendor immediately responded to handling the bug and included it in the next release.
- The provider issued a CVE ID (2023-1119) as a gesture of appreciation to the effort and the finding.

# Bonous Slide

## Related Solutions and Tools by Sorintians



### Sorint Sec Business Unit

Sorint.SEC is the Cybersecurity company of Sorint.Lab Group that operates exclusively and continuously on issues related to Information Security.

[sec.sorint.it](https://sec.sorint.it)



### SSL - Shift Security Left Technology Consulting Service

SSL promotes security as a common responsibility shared by all teams involved in software development. The service follows DevSecOps as a methodology.

[Inquire](#)



### NGMS Core IT Services

Remotely manages IT infrastructures ensuring the correct functionality, support for vendor and Open-source products. Reducing response times to new problems. Speed, flexibility, method and technical preparation are part of our DNA.

[Inquire](#)



### SYNwall Open-source software product

☆ Star 260

A zero-configuration (IoT). A different way to think firewalling. Brings to you a totally new way to approach firewalling: you don't have to worry anymore about rules, IP, ports, etc

[github/SYNwall](https://github.com/SYNwall)



### REW - sploit Open-source software product

☆ Star 127

Emulate and Dissect MSF and \*other\* attacks. Rew-sploit helps you analyse Windows shellcode or attacks coming from Metasploit Framework, Cobalt Strike, or other malicious or obfuscated code.

[github.com/REWsploit](https://github.com/REWsploit)



### Dock12 Blog

A port bar on Ceres Station in "The Expanse". This aims to be a place where people can chat (like in a bar) about topics related to security and more.

[dock12.sorint.com](https://dock12.sorint.com)



# Going Forward

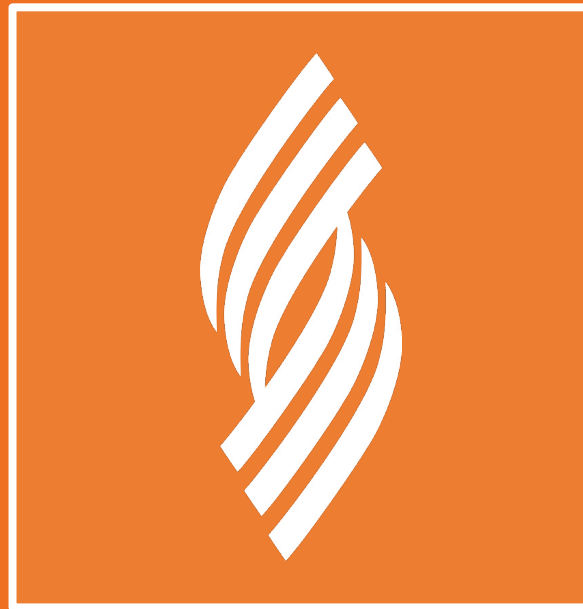
How we can move forward from here

One hour  
workshop

Read more on  
[/sorintlab](#)



Alternative  
approach



BUILDING GREAT  
TECHNOLOGY



---

IT | ES | UK | DE | US | FR | PL | CMR | RO