

Introduction to NVISO

Overview of our services & use cases for Shield VZW "GRC"

About NVISO



Our Company

NVISO is a pure play **Cyber Security services firm** of 300+ specialized security experts and founded in 2013.

Initially founded in **Belgium**, we've been in **Germany** since 2019, and **Greece** & **Austria** since 2022.

Our mission is to safeguard the foundations of European society from cyber attacks.



Our DNA

We are proud: we are proud of who we are and what we do.

We care: we care about our customers and people.

We break barriers: We challenge the status quo by continuous innovation.

No BS: We keep our promises and don't fool around.



Our Research

We invest 10% of our annual revenue in research of new security techniques and the development of new solutions.

Follow us on:



@NVISO_security and
@NVISO_Labs



blog.nviso.eu/





Our expertise

We lead the way and actively teach others, a testament to this are the SANS courses we (co-)author and instruct:





SEC575 Mobile Pen. Testing

Since 2019, NVISO experts are the lead authors of the SANS SEC575 course "Mobile Penetration Testing & Ethical Hacking".

NVISO experts maintain 6 days of courseware of this 6-day course.



SEC598Security Automation

Over the course of 2021 and 2022, NVISO has developed a new SANS course focused on Security Automation. Released in 2023.

NVISO experts maintain and develop 6 days of courseware of this 6-day course.



SEC599Purple Team Tactics

In 2018, NVISO experts were lead authors of one of the first purple teaming courses, "SEC599 - Defeating Advanced Adversaries - Purple Team Tactics & Kill Chain Defenses".

NVISO experts maintain 5 days of courseware of this 6-day course. We also actively teach it worldwide.



SEC699 Advanced Purple Team

In 2020, NVISO experts developed a follow-up course to SEC599, labelled SEC699, which focuses more on automated adversary emulation using CALDERA.

NVISO experts maintain 5 days of courseware of this 6-day course. We also actively teach it worldwide.

Our expertise

We share our know-how with the community



Public Conferences

























Our research results have been presented at well-respected security events and conferences including Black Hat, BruCON, OWASP, FIRST, and many more.

Knowledge Sharing Sessions



Our **brown bag sessions** are **free-of-charge lunch talks** in which our experts pass on their knowledge to colleagues and customers.

Our team does not only have the knowledge required to teach, but also the expertise to convey complex material to their audience in an understandable, engaging and fun way without being too overwhelming.

Curious to join a session, or have us organize a private session for your team? Let your NVISO contact know!

Our Blog & Open Source



We love to write about the things we are most passionate about! Our blog features innovative content from each of our different services lines:

https://blog.nviso.eu.



We strongly believe in **sharing our** work with the community & giving back. We continuously release & maintain security tools for use by other professionals, write & share our detection rules, develop new technology integrations. Our work is freely available on GitHub: https://github.com/NVISOSecurity

Market trends

What our clients are asking us and what we're investing in.



Incident Readiness



Attack Surface Management

Incident & Crisis Governance DRP / BCP

CSIRT Service

24/7 on-call support

Backup Readiness
Strategy, Assessment

Ransomware resilience package Playbooks, BCP & DRP update Managed Detection & Response

Incl. Managed Vuln Mgt

Third-Party
Risk Management
optimization and automation

Security Automation



Cloud engineering & automation

(mostly Azure, AWS)

SOC Automation
Our NITRO service runs on
Cortex XSOAR

Adversary Emulation



Scenario-based penetration test

Red Teaming

Automated Purple Teaming

Regulation



NIS2 Implementation ISO27001, BSI (DE), Cyber Fundamentals (BE)

DORA Implementation

ISO27001 Certification Support

SWIFT CSP Support

Executive Briefings

AppSec



Threat Modelling

SSDLC Implementation

SSDLC as a Service

We Support You Throughout the Entire Cyber Security

the below are eligble under Shield (yet)

Disclaimer: General Intro on NVISO - not all of



Incident Lifecycle
Define & deliver your cyber strategy





- Governance, Risk & Compliance
- Software Security
- Infrastructure & Cloud Security
- Intrusion testing & red teaming
- · Awareness & training

DETECT



- Managed Detect & Respond
- Compromise assessment & threat hunting
- SOC design & maturity
- Security analyst support

RESPOND



- Managed Detect & Respond
- Incident Response
- Digital Forensics
- Malware Analysis



NITRO is NVISO's Managed Services platform. Leverage NVISO's expertise at scale, combined with best-of-breed technology.



Our Research & Development cell fosters innovation and manages technology development projects that empower our services.



Cyber Strategic Advisory & GRC Ops

Define & Deliver a Cyber Strategy





Small & Medium Bus.



Enterprise



Your Cyber Security Roadmap

Light or extended, based on NVISO Rapid Assessment, ISO27k, CIS20, NIST CSF...



Governance

- Define Cyber Security Strategy framework
- Implement, diagnose & improve cyber governance



CISO as a Service

- A SPOC complemented by our pool of experts
- Accelerators (ISO27k-compliant docs, awareness enablers, incident response playbooks, ...)
- Packaged Solutions (Vuln. Mgt as a Service, Azure Sec. Monitoring as a Service, SOC-as-a-Service, Awareness as a Service, ...)



Risk

- Vendor Risk Management (TPRM)
- Compliance Risk Assessments
- Security Audits
- On-demand risk assessments based on ref. models



ISO27k & Compliance Support

We help you achieve certification e.g. ISO27k, CyFun, ETSI319401/eIDAS, ISA62443, SWIFT CSP, ...



Compliance

- Expertise in regulation (NIS2),
- fin. regulation (EBA, PCI, ...) & trust services (eIDAS)
- Product security compliance (CRA)
- Extensive experience with leading standards

Our approach

Defining your strategy and help you implement it





DEFINE



IMPLEMENT

Pool of Experts

- Risk / Gap Assessment
 Based on NVISO Rapid Assessment method
 for ISO27k, CyFun, CIS18, NIST CSF...
- EISO DE CEISO

Cyber Security Roadmap3 years planned & budgeted





? Validation & Governance Kick Start

Accelerators

Packaged Solutions

Our Approach



We propose to develop a Cyber Security Roadmap based on the following set of activities: SHELDER TOUSO

Step

Identify Control Gaps

We evaluate each control with your experts. By controls, we mean the technical security measures or the functional procedures in place to cover a certain security risk. This ranges from secure configuration of your systems, to a process to ensure patches are implemented timely or security awareness training of your staff.

Step

Prioritize based on threats

We identify actual threats for your organization, as well as your business priorities: this will help us prioritize your action plan in a risk-based fashion.

Step

Design & Validate Roadmap

Define & Deliver a Cyber Strategy

Illustrative Example - Threat-Based NIS2 Compliance



2024	2025	2026
Stream 1: Formalization of Security Process	es & Management Involvement	
	Stream 2: Security Awareness (at a	all levels)
Stream 3: Asset inventorization (focus on IT	& OT assets)	
Stream 4: Security Incident Readiness & Res	sponse (to accommodate NIS2 Reporting obligation	ns)
	Stream 5: Vulnerability Management (on I	т & ОТ)
Stream 6: Security of the Supply	/ Chain (SSDLC, Third Party Security,)	
	Stream 7: BCM, Disaster R	Recovery & Backup Security
	Stream 8: Data Security (classification, lab	elling, encryption,)



IMPLEMENT





We assist you with...



ROADMAP EXECUTION

Implement or monitor defined actions



DAY TO DAY QUESTIONS

Handle incoming security & privacy questions



SPARRING PARTNER

Acting as a sounding board for security projects



We balance budget & flexibility

We operate in a fixed capacity mode - We want you to know what to expect in terms of presence and of budget: this is why we usually offer a fixed capacity of the CISO per week. We are present on fixed days, and we have fixed status meetings together, to keep you in control.

We ensure contractual agility - You may also need extra capacity at certain moments: we ensure sufficient agility through a contractual agreement where we can increase our presence or mobilize experts (within 4 to 6 weeks) based on your simple written request / approval, based on a rate card and discount model agreed in advance.



IMPLEMENT



Our team features world-class security experts that supports the implementation of the program

Pool of Experts



Our people speak at some of the world's most prestigious security conferences And regularly speak on security for the Belgian cyber and business community.

























IMPLEMENT



We have built a set of accelerators and services that enable us to rapidly deliver at an affordable cost.



Basic Security Framework
Policy, Code of Conduct, Risk
Assessment kit



Architecture Check Light and Advanced Security Architecture Review Method



Incident Response Readiness Check



Cloud Reference Architectures



And many others
Policies, procedures, and much
more.



MDR (Managed Detect & Respond)



Vulnerability Management as a Service



Awareness as a Service



3rd party risk mgt as a Service



Incident Response Retainer



Technical Preventive Security

Preventing Incidents

NVISO SHIELDUS

Security Architecture reviews on multiple levels

Within NVISO we have experts on multiple levels, **our standard security architecture review includes multiple levels** to so we can apply the **defense-in-depth approach**. Fully understanding your environments starts with understanding the architectural model implemented and the design decisions that were made, this includes mapping data flows, account management and overall architecture. Based on the **selected services we will perform an in-depth GAP assessment** on network configuration and/or system level according to best practices and industry standard such as the CIS top 20.

Architectural Model

An assessment and review will be performed based on the current state of the network and maturity related to security architecture.

Network Architecture

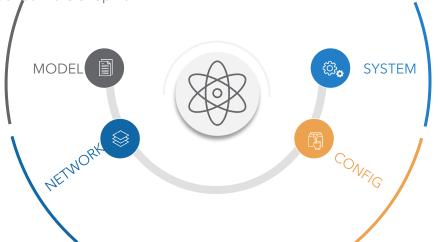
Reviewing the level 3 design and focus on perimeter and internal network controls to identify potential single point of failures or misconfigurations.



Firewall rule-set review (option)



DDoS Resiliency (option)



System Reviews

Proven guidelines will enable you to safeguard operating systems, software and networks that are most vulnerable to cyber attacks.

Configuration reviews

Every customer has specific security technology in place. Our configuration review is a more in-dept analysis per technology to find security misconfigurations.

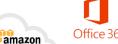
NISO

Preventing Incidents

Cloud Security Projects







In case you are thinking about moving towards the cloud or you are already in the cloud NVISO can assist you in both cases. Our cloud security services can range from an integrated security design in your new environment to reviewing your current infrastructure via our standardized security assessment.

Cloud Security Design





How secure your current environment is? Our assessment provides you an overview about your current exposure, missing security controls or typical misconfigurations within cloud environments.



Cloud Security Assurance

As your cloud environment is changing, you will need to review and adapt your security requirements continuously. After an intake of the current setup our security architects will review changes and support your operational teams.



Cloud Security Compliance

As new cloud resources are deployed, you will need to ensure that compliance of each cloud resource to your corporate security standard. NVISO can help you create automated compliance checks and reporting to gain visibility and additional compliance rules.



NVISO can assist you within the design process to integrate security in your design based on your requirements, industry best practices and our technology expertise.

Cloud Security Assurance



Continuously integrate our security expertise in your cloud environment. During the design phase we will define and review the security controls, in a later stage our security architects review ongoing changes and support your operational teams.

Cloud Security Roadmap



Define the security roadmap for the cloud services used withing your organization through workshops and setup cloud infrastructure for your organization defining quick wins and structural recommendations.

Preventing Incidents

Preventing Incidents



At NVISO, we have a dedicated team that is specialized in both giving security advice and performing assessments on both applications and infrastructure. As a **world-class provider of security assessment services**, we ensure our methodology meets the highest quality standards and thus ensure it is based on several internal and external sources.

Methodology



The SANS security assessment & penetration testing courses,



The community driven Penetration Testing Execution Standard (PTES).



The OWASP
Testing & Code
Review guides.



The results of our own Research & Development activities.

NVISO Security Assessment Methodology

Portfolio



Web application assessments



Mobile application assessments



Infrastructure assessments



Wireless & WiFi assessments

ਪਿੰਨ

Internet of Things assessments

Social

engineering



Physical security



Red / Purple teaming

Standard assessments

Advanced assessments

Technical Preventive Security

Illustrative Examples



Medical Device Product Security

- 1. Pentesting and threat modeling of Medical Printers
- 2. Pentesting and threat modeling of Medical Telemetry & Monitoring system
- 3. Pentesting and threat modeling of Medical Implants

Hospital Security Assessments

- 1. Several pentesting and Red Teaming exercises for hospitals
- 2. Specific technical assessments/reviews, such as Ransomware Readiness assessments, for hospitals.

We understand your technological complexities (on device as well as within the wider healthcare environment) and how to secure these.



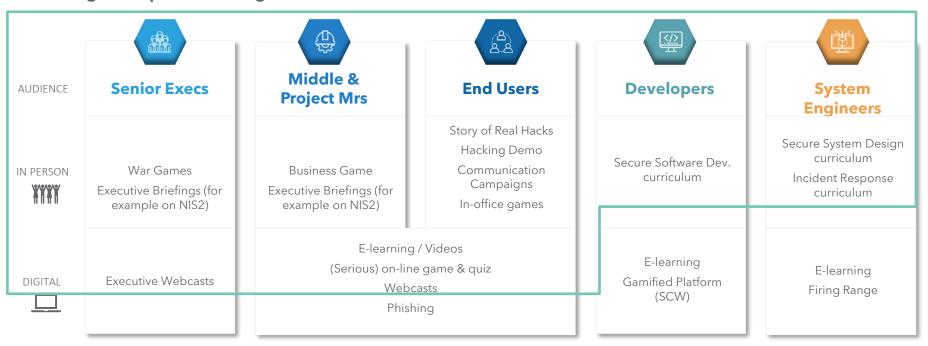
The Human Factor

Preventing Incidents



Security Awareness

We assist organizations of all size in creating a **cyber culture** at all levels, mixing **proven communication techniques** with **original in-person and digital solutions**.



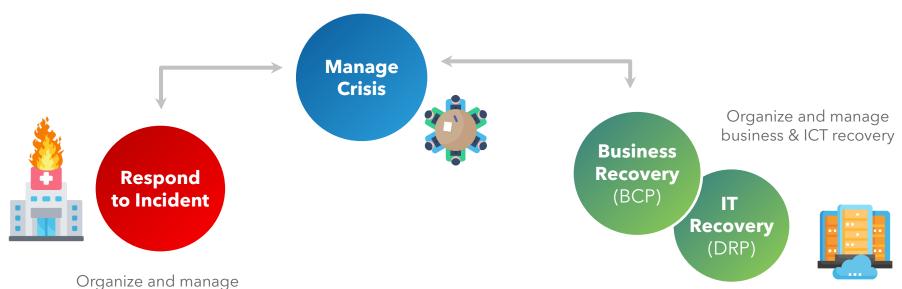


Incident Readiness

Responding to an incident: a threefold approach



Make key business decisions to ensure **Business Continuity** Steer External & Internal Communication



(ICT) operational response Identify source - Contain attack -Eradicate source

Our Incident Readiness offering

We help you be incident ready. Ready to respond efficiently to an incident, to reduce its impact. We work on **incident response** (operational handling of the incident) and **crisis management** (management handling of the communication and strategic business decisions).







- Crisis Management
- Incident Management
- BC & DR Governance integration



- Standard Operating Procedures / Playbooks
- Readiness Checks
- Quick remediations (AD, backups, forensic readiness)

→ EXERCISE Train and test plans & people

- Tabletop Exercises (crisis, incident)
- Recovery Tests
- Attack Simulations & Red Teaming

RESPOND Help you face a cyber attack

- NVISO CSIRT Incident Response
- NVISO CSIRT Crisis Support
- NVISO CSIRT Forensics



- Red Teaming
 - Audits
 - Remediation projects







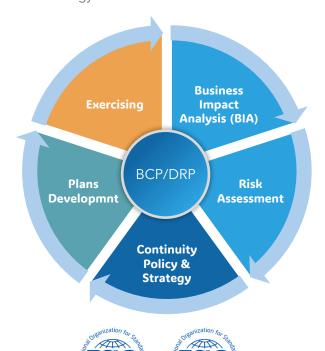




Our Business Continuity Management (BCM) Methodology

We leverage the ISO22301 BCM standard and ISO27031 DRP standard, which has founded our own hands-on methodology.





27031

22301

Part 1 - Prioritize Activities

- Business Impact Analysis: define priorities based on RTO (recovery time objective)
- Risk Assessment: identify continuity risks, to reduce them

Part 2 - Prepare Continuity & Recovery

- Business Continuity Strategy: define needs in terms of People, Facilities, ICT Infrastructure, ICT end-user equipment, and third parties.
- Business Continuity Policy: defining your BCM methodology and obligations
- Plan Development:
 - Activity Recovery Plans: Develop operational recovery plans for highlycritical activities
 - Business Continuity Master Plan: your central plan. Defines how to activate and manage BCM mechanisms when a disaster strikes. Includes definition of supporting governance mechanisms, roles & responsibilities.

Part 3: Exercise

- Define test plan
- Execute tests: BCM Test, DRP Test and Crisis Mgt / Incident Mgt test





Incident Readiness

NVISO NVISO

Illustrative Examples - Business Continuity & Incident Readiness

Business Continuity & Disaster Recovery Planning

- 1. Development of a BCP & DRP for one of the largest hospitals in Belgium. Focus on "Minimum Viable IT".
- 2. Creation of a disaster recovery plan for a hospital.

Incident & Crisis Management

- 1. Creation of incident response plans, tailored to the needs and dependencies of a hospital.
- 2. Simulation of table-top exercises with hospitals to verify the organizational & stakeholder readiness to deal with incidents.

We understand the impact of an incident, or crisis on your activities. It's not only about the financial impact.... We're talking about the lives of people.

Conclusion: Why NVISO?

Wrap-up - Why NVISO?



- 1. Our focus is cybersecurity and our mission is **to safeguard the European society from cyberattacks. The Healthcare sector is a critical sector within this society** and we are extremely eager to help the Shield community to better prepare against cyber attacks.
- 2. We can advise your **strategically**, but are **pragmatic** and think **threat-based** to advise you on **compliance**. We can help you define and implement your roadmap and help you to manage & reduce cyber risk & to achieve NIS2 compliance (ISO27001 or CyFun).
- 3. We **understand threats the healthcare sector is facing** and **technical expertise** is deep-rooted in our organization and based on our relevant experience in the healthcare industry.
- 4. We're committed to *increase awareness*, in the Shield community and its members and to *prepare* you better detect and respond to security incidents.

HACKED?

CALL

+32 (0) 2 588 43 80

+43 (0) 720 228337

+49 69 8088 3829

NVISO • Security. Research. Risk.

