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Cyber Security: Kritisk Infrastruktur
2026-03-26

welkin
by elastisys

Secure-by-design i praktiken

Så bygger en applikationsplattform
lager av säkerhet.

CLASSIFICATION: PUBLIC



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Cloud since 2008. Formerly with Axis Communications and research at Ericsson.

Thought leader on cloud and compliance w/
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What is your **worst** protected software?

And what can a hacker do if they get in?



Security + critical infrastructure in 2026

STRUCTURAL WEAKNESSES

Legacy communication protocols

→ Weak authentication & integrity (CISA)

Underinvestment in secure OT

→ Growing exposure in industrial environments (WEF)

Poor observability

→ Poor root-cause analysis & slow response (WEF)

Supply chain fragility

→ Largest barrier to cyber resilience (WEF)

THREAT LANDSCAPE 2026

Escalating cybercrime & targeted attacks

→ National threat assessments (SÄPO, FRA)

Weaponization of vulnerabilities

→ Faster exploitation cycles

Cloud sovereignty risks

→ “Sovereignty washing” by hyperscalers



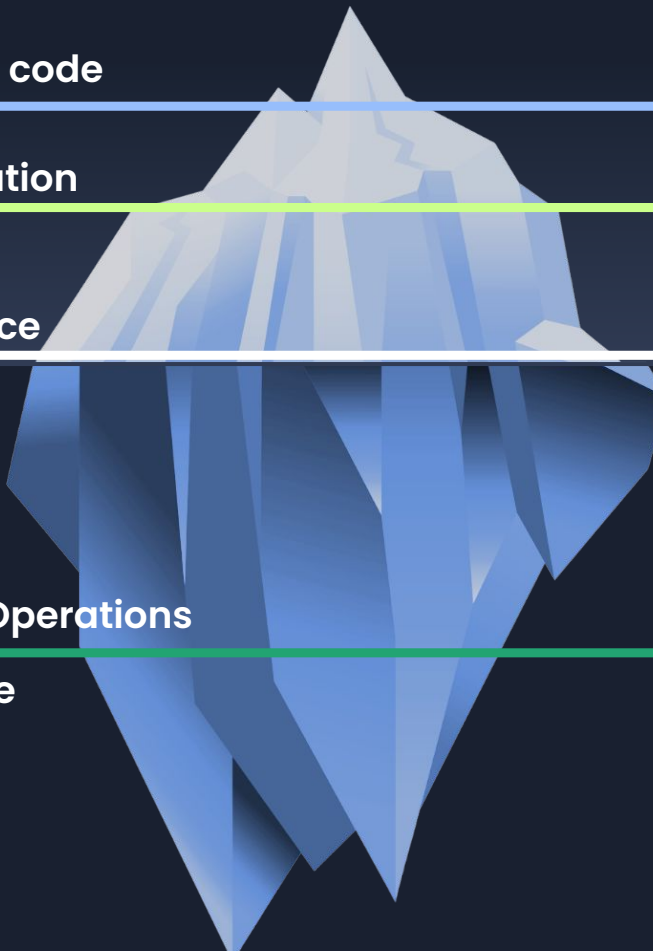
Application code

Documentation

Maintenance

Security + Operations

Compliance





Mitigations



Trustworthy supply chains,
and means to verify them



Tamper-proof and
deep observability



Vulnerability management,
intrusion detection, and
isolation **in depth**



Enforce security best practices by
deeply **embedding applications** in
security they cannot violate

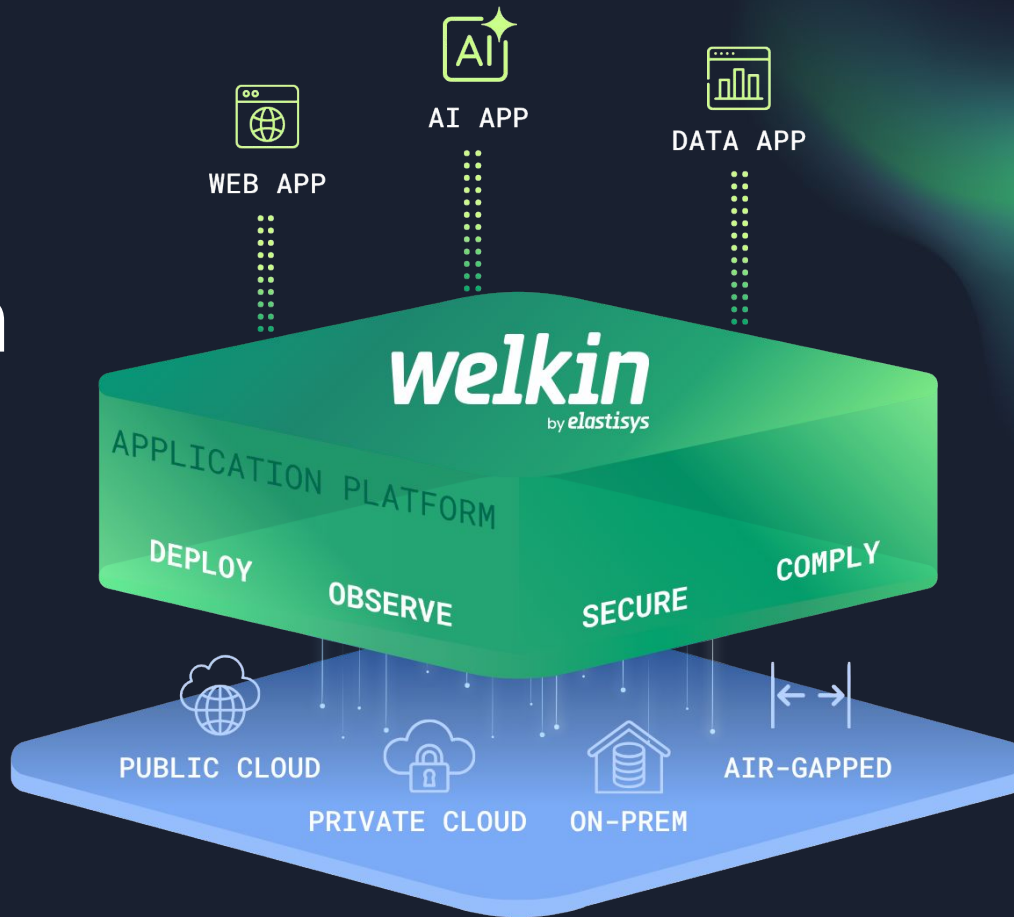


Security should
be built into the
PLATFORM



WELKIN BY ELASTISYS

Security-hardened Application Platform





Security measures are not
unique, **your applications are**



Raising the lowest bar

Isolate applications

Strict limits. Reduced capabilities. Only specifically allowlisted network requests.

Force encryption everywhere

Network and storage.

Injected configuration

Inject secrets configuration securely.

Vulnerability and intrusion detection

Protect against the known and unknown.

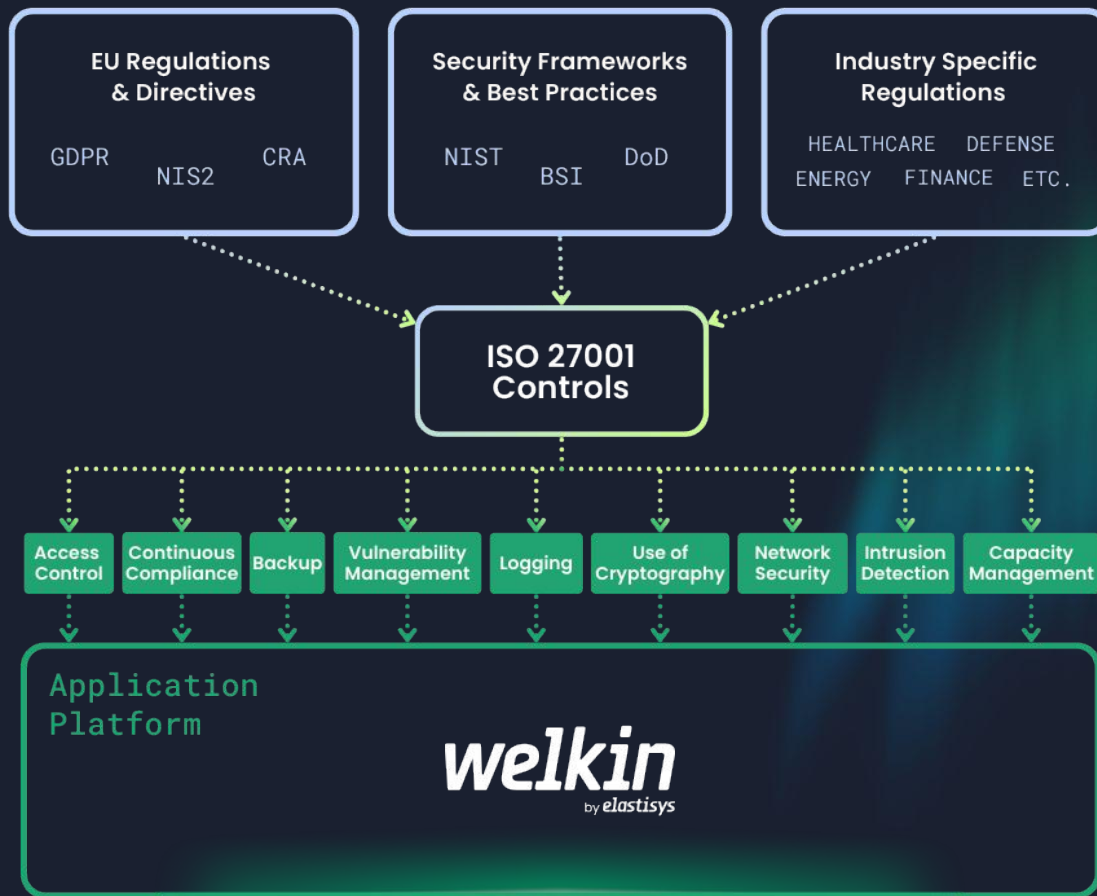
Tamper-proof observability

Observe in depth from the outside. Tamper-proof records.

Fine-grained permissions

Both for humans and applications.







Summary

Critical infrastructure is under more cyber threat pressure than ever.

Security should be built into the platform.

Security measures are not unique, your applications are.

“Defense in depth” is secure by design in practice.

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Sources



Status quo for critical infrastructure

- US Cybersecurity and Infrastructure Security Agency (CISA)
 - [“CISA Releases Guide to Help Critical Infrastructure Users Adopt More Secure Communication”](#), 2026
 - Decades-old communication protocols with poor support for authentication and integrity checks are security concern
- World Economic Forum:
 - [“The dangerous blind spot in critical infrastructure cybersecurity”](#), 2025
 - Lack of investment in secure Operational Technology (OT)
 - Poor observability features leading to bad root cause analyses
 - [“Global Cybersecurity Outlook 2026”](#), 2026
 - Third-party and supply chain vulnerabilities is largest barrier for large companies to cyber resilience



Swedish cybersecurity

- “Handlingsplan 2026: Nationell strategi för cybersäkerhet 2025–2029”, Regeringskansliet, 2026
 - MCF to collaborate with FRA and be supported by FMV, Försvarmakten, Polismyndigheten, PTS and Säkerhetspolisen as well as Finansinspektionen and Sveriges Riksbank
- The Swedish Säkerhetspolisen (SÄPO) and Försvarets Radioanstalt (FRA) both state in their yearly outlooks that 2026 will be plagued by high cybercrime activity, use of vulnerabilities, and directed attacks on European and Swedish infrastructure (SÄPO, FRA)