

NIS2: Safeguarding Data, Identity and Infrastructure

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NIS2



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on January 16, 2023**



**Achieve
a high level
of cyber security**



**Address the change
in cyber security
threat landscape**

Who is covered?



EU member states



All companies with

> 50 employees

> 10 MIL EUR revenue



18 sectors

What covered entities need to do?



ORGANIZATIONAL MEASURES



PROCESSES

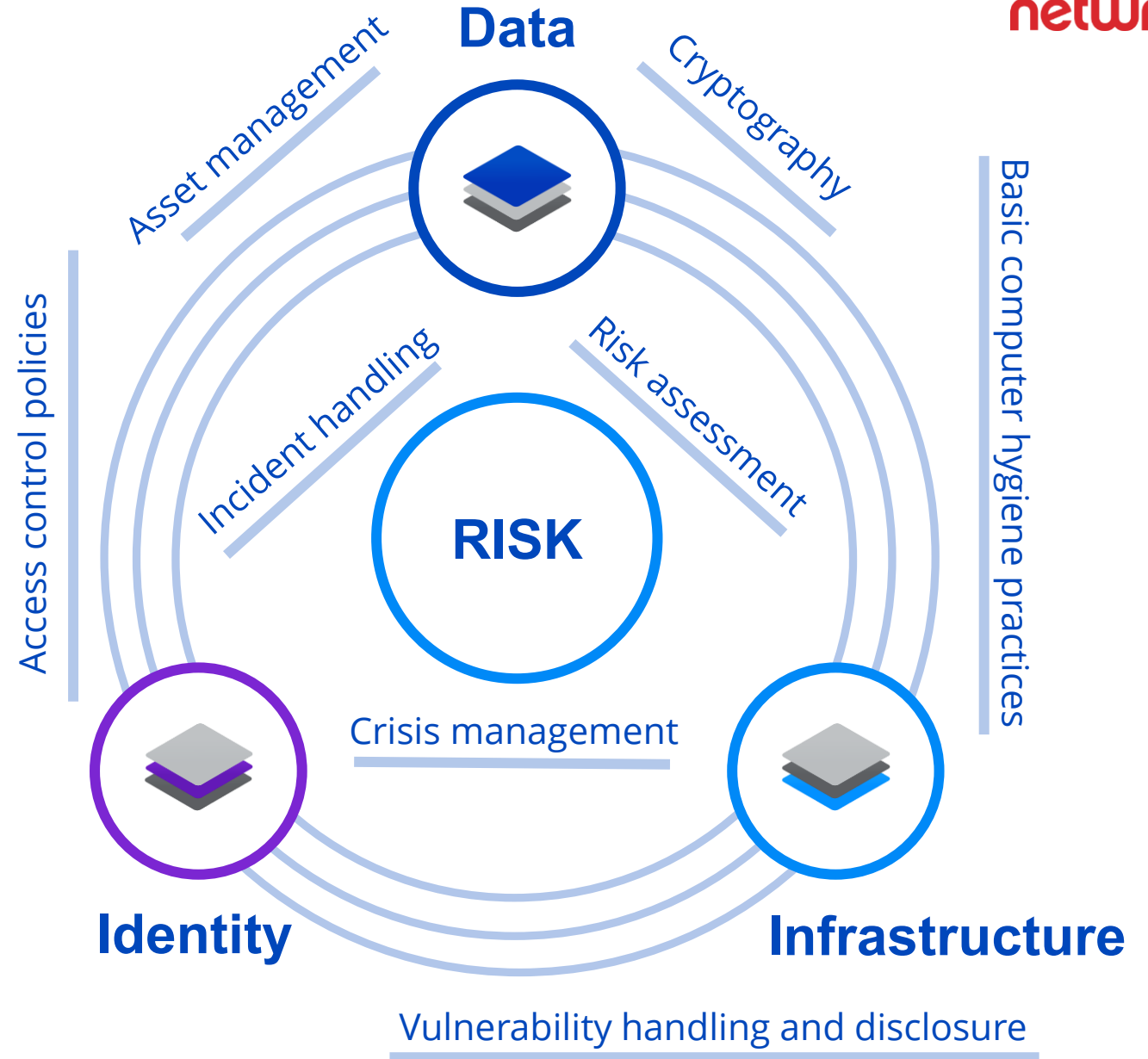
TECHNICAL MEASURES



HARDWARE AND SOFTWARE

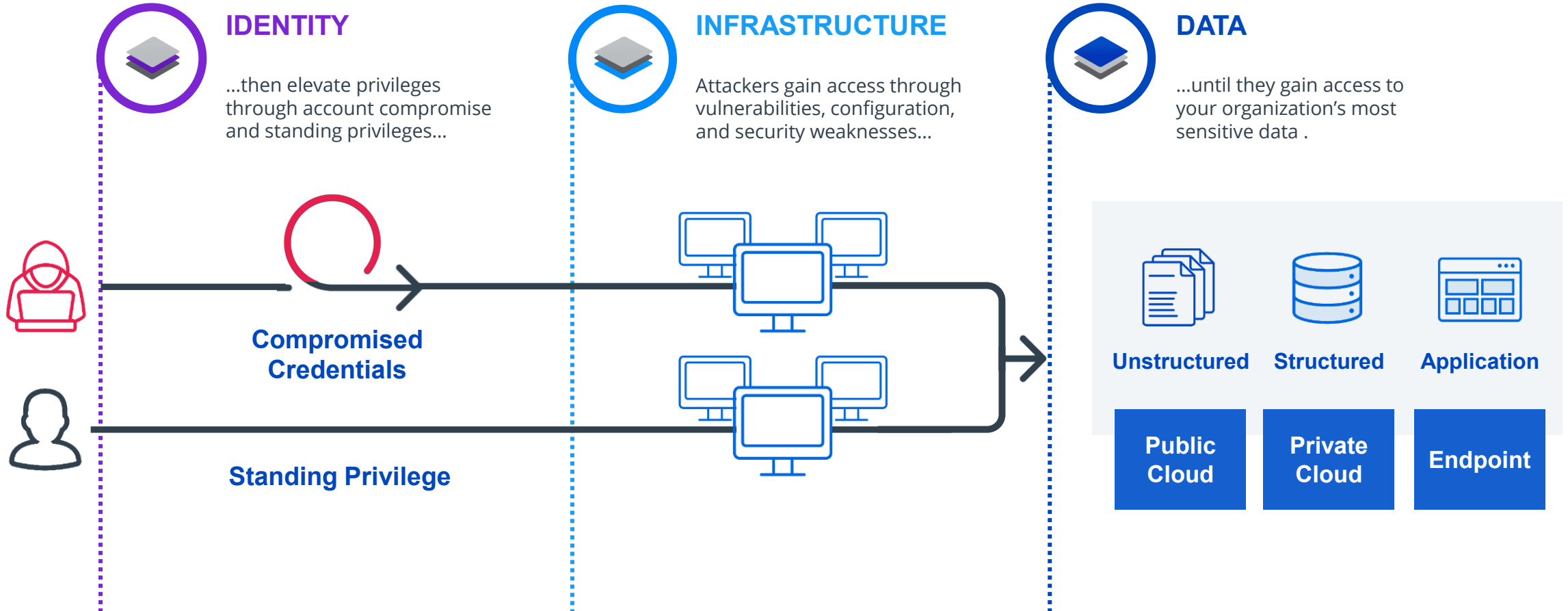


A Multi-Layered Approach is Required





Secure All Three Attack Surfaces



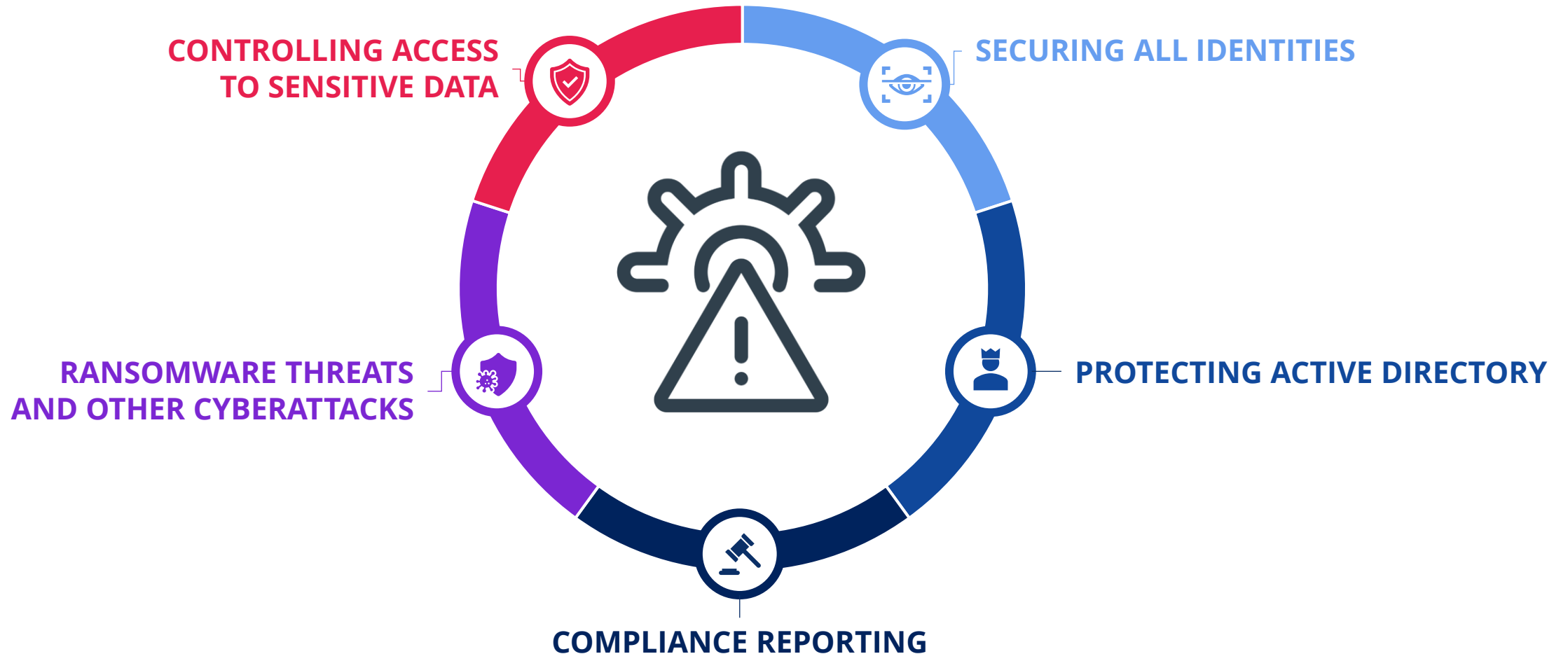


Measures: Organizational ► Technical

		MITIGATE			REMEDiate	
		IDENTIFY	PROTECT	DETECT	RESPOND	RECOVER
ATTACK SURFACES	DATA	Which data is sensitive?	Who should have access to sensitive data?	Who is accessing sensitive data?	Do I have to report a data breach?	What data needs to be recovered?
	IDENTITY	Which accounts pose risk and why?	How do you secure privileged access and govern identities?	Is there any improper user activity?	How to respond to a threat faster?	How to undo improper AD changes?
	INFRASTRUCTURE	What makes us vulnerable to threats?	How to prevent unwarranted changes?	What configuration changes were not approved?	How did an incident occur?	How could an incident have been stopped?

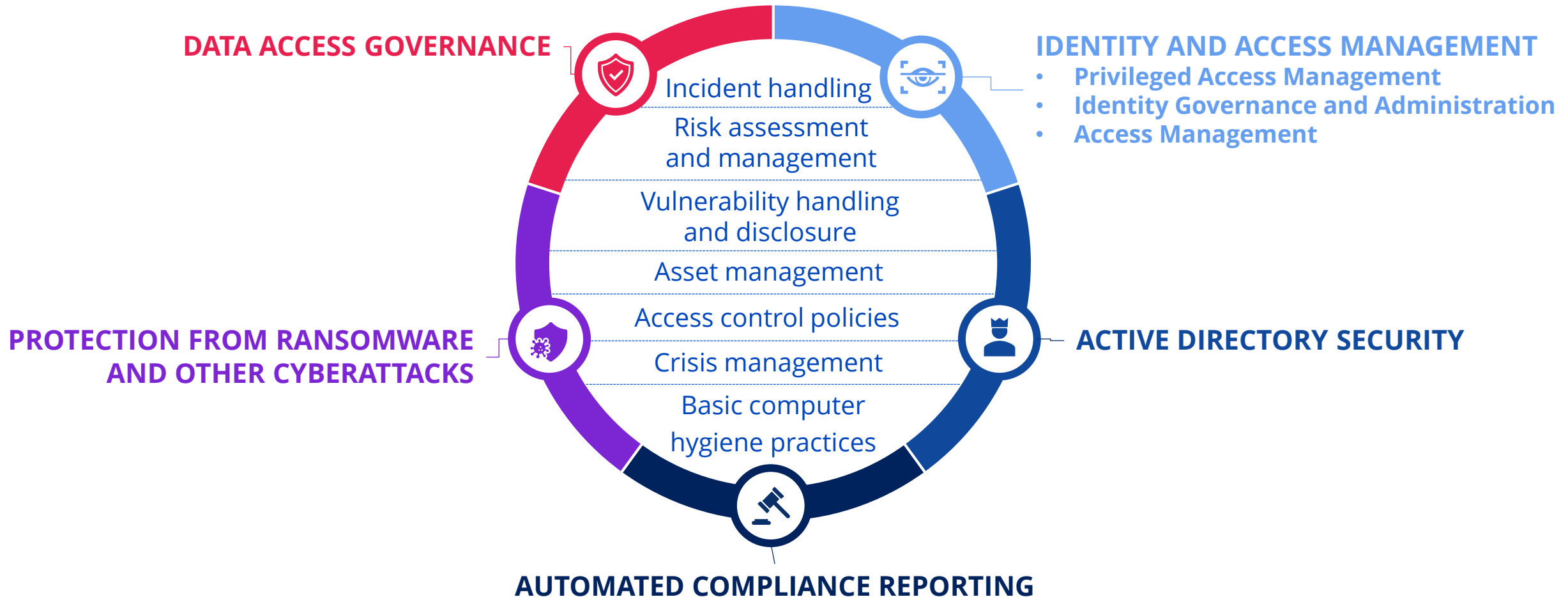


NIS2 Cyber Challenges





Solutions To Those Challenges



NIS2 & Risk Assessment

An important aspect of NIS2 is the introduction of a **risk assessment** obligation for the companies involved, which must **assess and manage cyber risks** deriving from internal and external sources. This also involves considering the measures taken by your suppliers and monitoring your supply chain, carrying out regular and thorough checks on the third parties involved.

Based on the results of the risk assessment, the NIS2 Directive sets out a number of technical and organizational measures that companies classified as "essential" and "important" must comply with.



Art. §21.2.a requires the implementation of risk analysis and security policies of information systems, what Netwrix Solutions can help organizations in this process?

Risk analysis and security policies for IT systems

Risk Assessment

Netwrix Auditor allows you to assess data, identity and infrastructure security risks as required by **Art. §21.2.a: Risk Analysis and Security Policies of Information Systems**

Data, identity, and infrastructure security gaps are identified, such as a large number of directly assigned permissions or too many inactive user accounts. These safety parameters are continuously evaluated and displayed through an intuitive, simple and interactive dashboard that allows you to intervene in real time on risks

Risk Assessment – Overview

Risk name	Current value	Risk level
Users and Computers		
User accounts with Password never expires	2	■ Medium (1-4)
User accounts with Password not required	0	■ Low (0)
Disabled computer accounts	0% (0 of 20)	■ Low (0)
Inactive user accounts	10% (3 of 30)	■ High (1% - 100%)
Inactive computer accounts	20% (4 of 20)	■ High (3% - 100%)
Permissions		
User accounts with administrative permissions	20% (6 of 30)	■ High (3% - 100%)
Administrative groups	12% (6 of 50)	■ High (3% - 100%)
Empty security groups	6% (3 of 50)	■ High (2% - 100%)
Data		
Shared folders accessible by Everyone	14% (2145 of 15321)	■ High (5% - 100%)
File names containing sensitive data	2	■ High (2 - unlimited)



Risk analysis and security policies for IT systems

Sensitive File and Folder Permissions Details

Shows permissions granted on files and folders that contain certain categories of sensitive data. Use this report to see who has access to a particular file or folder, via either group membership or direct assignment. Reveal sensitive content that has permissions different from the parent folder.

Object: \\fs1\Accounting (Permissions: Different from parent)
Categories: GDPR, PCI DSS

Account	Permissions	Means Granted
ENTERPRISE\j.Carter	Full Control	Group
ENTERPRISE\T.Simpson	Full Control	Directly
ENTERPRISE\A.Brown	Full Control	Group

Object: \\fs1\Accounting\Europe (Permissions: Different from parent)
Categories: GDPR

Accc → Add Workflow

ENT

ENT Which content source(s)? What do you want to do? When do you want to do it?

Email Alert
Send an email alert to a static email address.

Migrate Document
Copy/Move a documents to a configured migration destination.

Update Permissions
Updates the file system permissions for the classified document

Modify MIP Label
Apply or remove a Microsoft Information Protection label

Regular Claims of Privilege Are Simplified

Netwrix Auditor and Data Classification allow you to find out who has access to what sensitive data and how they have gained that access, enabling data owners to regularly verify that those rights align with business needs. This makes it easier to understand which excess permissions to remove to enforce the principle of least privilege and keep risk at an acceptable level.

Ability to automatically quarantine sensitive data to reduce the risk of a breach or loss

If a sensitive document is in an unexpected location, it is automatically moved to a quarantine area until it is determined where it should be stored and who should access it.

Immediately block overexposed sensitive data

If access controls for sensitive data aren't appropriate for the risk, automatically remove all rights or change the permissions of global access groups, such as Everyone.

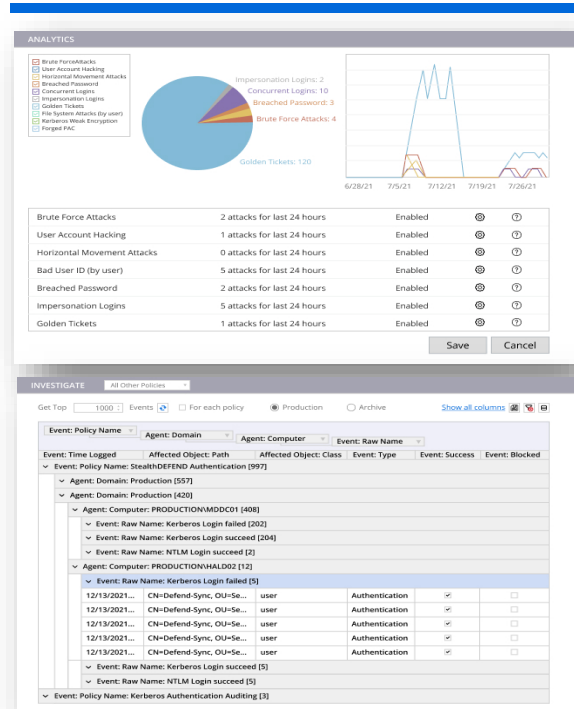




What Netwrix solutions help to comply with ART. §21.2.b for incident management, as well as to comply with reporting obligations as required under ART. 23?

Incident handling & Reporting obligations

Netwrix StealthINTERCEPT



Netwrix StealthINTERCEPT alerts you in real-time about changes, authentications, and other suspicious or risky events within your infrastructure so you can prevent them from turning into breaches.

StealthINTERCEPT combines an enriched and optimized audit activity stream with relevant contextual data to effectively build organizational behavioral profiles using unsupervised machine learning algorithms. Slash the time spent on audit preparation with a wide variety of compliance reports aligned with common standards.

It also allows you to prevent critical events from happening.

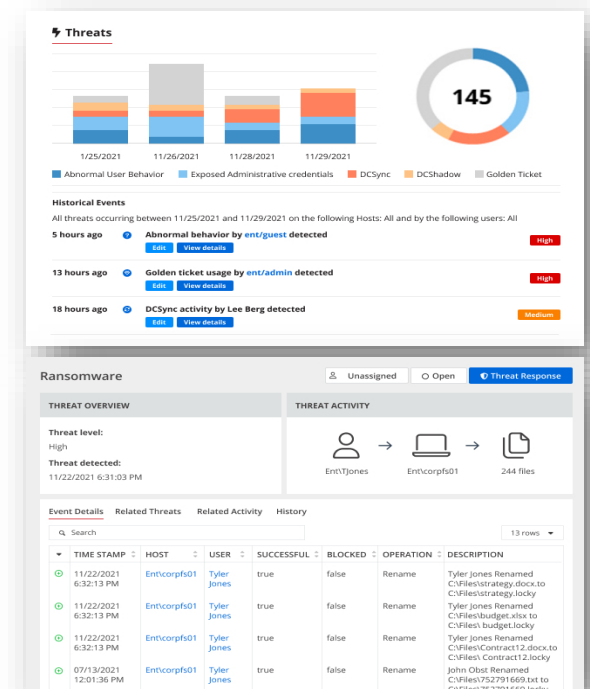


Netwrix Threat Manager

Netwrix Threat Manager is a real-time threat detection and response solution that enable you to respond immediately to threat detection by leveraging the comprehensive catalog of pre-configured response actions or by integrating Netwrix Threat Manager into your business processes, using PowerShell or webhook frameworks.

The result is the ability to detect, correlate, and respond to anomalous behavior and advanced attacks with unprecedented accuracy and speed.

Easily gather the entire timeline of related events that comprised an attack to simplify investigation, threat analysis and recovery



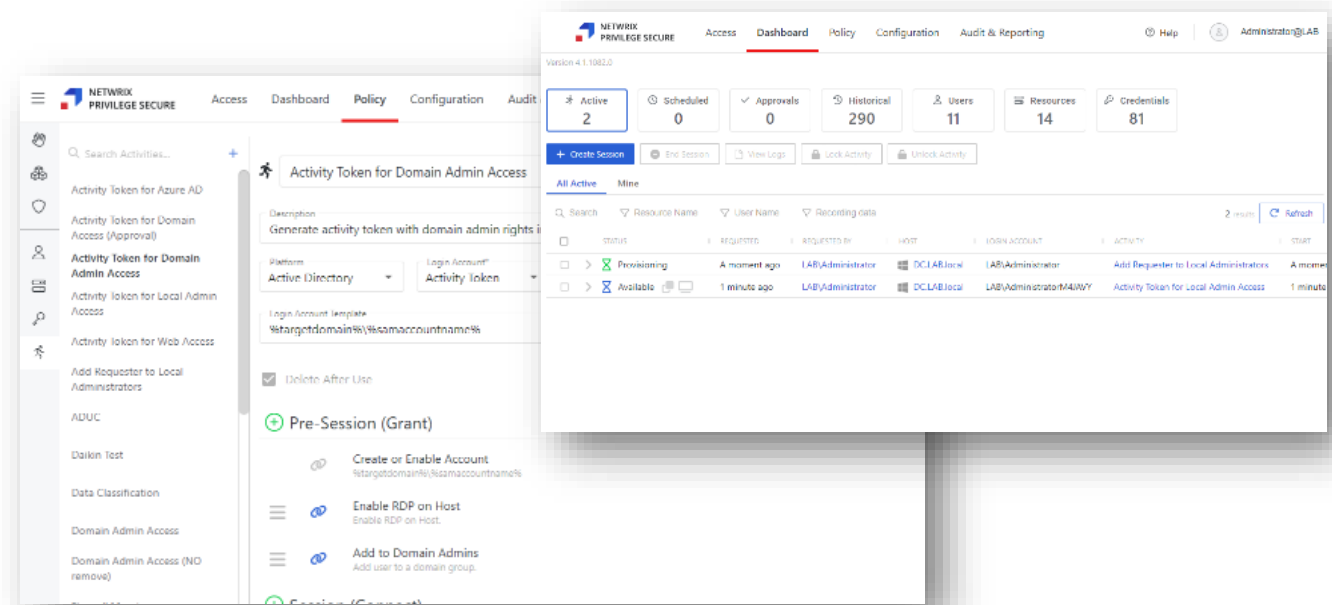


Another key point is art. §21.2.d supply chain security, and ART. §21.2.i which requires you to implement access control and asset management strategies; How Netwrix can help?

Access control policies & supply chain security netwrix

Privilege Access Management

- Remove standing privileges to reduce risk
- Grant the right access to the right users with just-in-time access
- Closely monitor the activity of third-party user accounts and applications that connect remotely to your systems and applications, even if their activity doesn't produce any logs, to ensure full accountability. Get notified anytime a vendor does something outside of their approved scope, since their unauthorized actions could put your data at risk.



Just-in-Time Orchestration

Creare ciò che serve per svolgere un'attività specifica nel momento in cui serve, e rimuovere la superficie di attacco quando non la si utilizza.

Identity

- Create / Remove Accounts
- Enable / Disable Accounts

Privilege

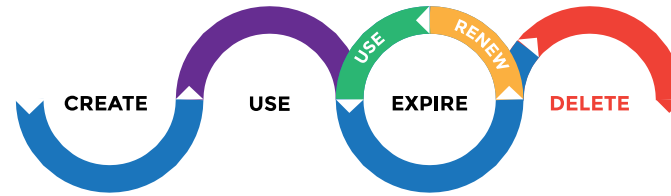
- Add / Remove Permissions
- Enforce Group Membership










Endpoint

- Enable/Disable RDP
- Purge Kerberos Tickets
- Pre/Post File Comparison
- Dynamic SMB Shares
- Custom PowerShell
- Dynamic sudoers

 **Netwrix Privilege Secure**

Access control policies & supply chain security netwrix



-  Provisioning User Objects from an Authoritative Source
-  Viewing Users, Groups, Memberships, and Attributes
-  Link objects across identity stores
-  Establish a clear managerial hierarchy, including dotted line management
-  Deprovision user accounts at the right time
-  Evaluate on-premises and cloud resource permissions
-  Transfer and terminate accounts with one click
-  Enable managers to manage their direct reports, groups, and permissions
-  Unlock accounts and reset passwords

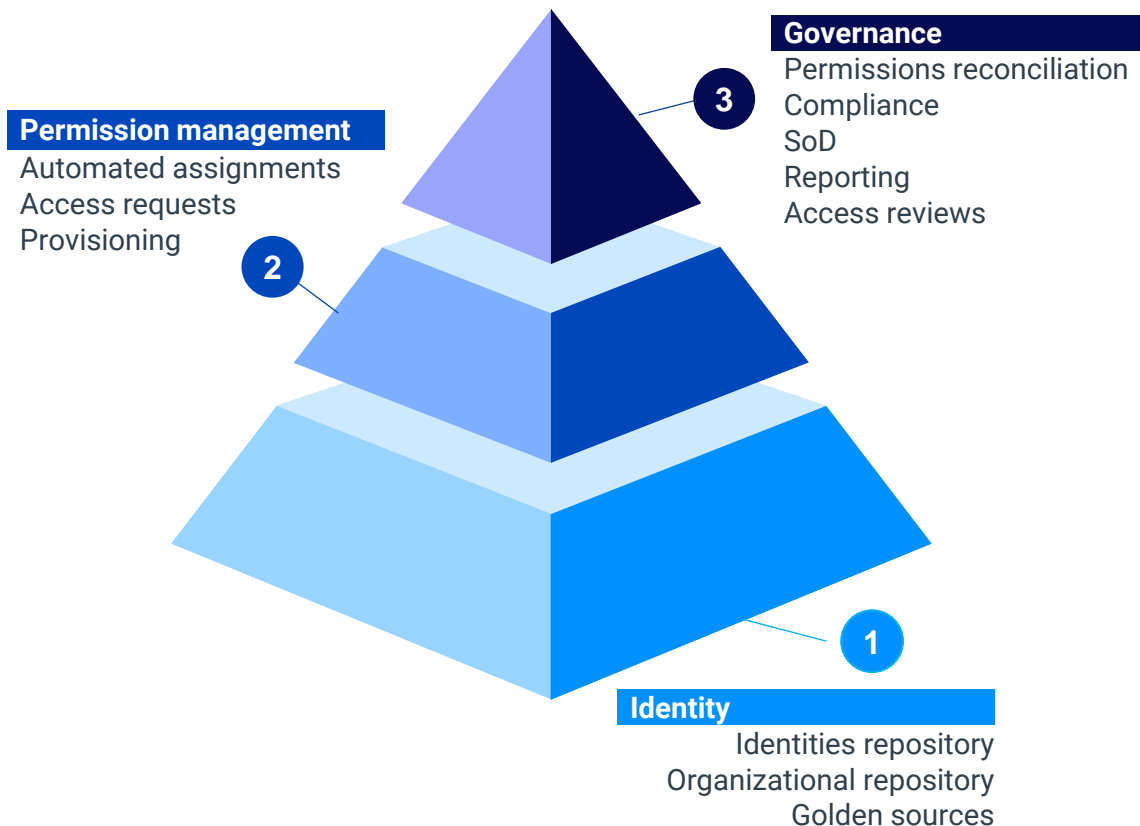

Identity Management


Group Management



 **Netwrix GroupID**

Access control policies & supply chain security netwrix



Ensure users have the right access to the right things at the right time

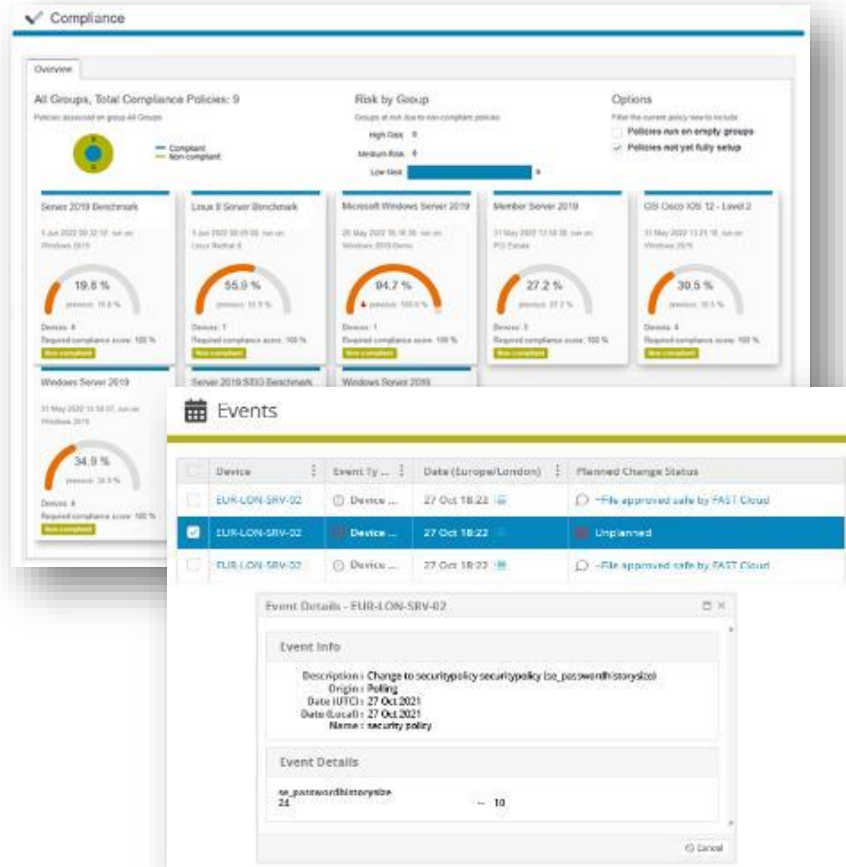
- Usercube builds a repository of organizations, sites, users and resources, from different sources, to become the centralized location for reliable and exhaustive information.
- Each user can make a request to obtain, modify or revoke access rights or equipment for the users in their scope. Workflows enable you to push the request to the appropriate people in order to obtain approval and/or start processing the request as soon as possible.
- Usercube enables compliance verification of access rights granted based on rules in place for your organization
- IGA brings together all of your organization's processes to enable each identified individual to have the correct access rights at the right time for the right reasons.

 **Netwrix Usercube**



No less important is ART. §21.2.e Security in network and information systems acquisition, development and maintenance, including vulnerability handling and disclosure; What solutions Netwrix offer?

Configuration management & vulnerability handling



System Hardening-File Integrity Monitoring-Compliance & Forensic Analysis

- Netwrix Change Tracker reduces "change noise" and false positives by more than 90% by creating a set of scheduled change rules. Enables automatic approval of legitimate files based on reputation with the Netwrix FAST Threat Intelligence service. Verify that your most important system files are genuine by cross-checking against a database of over 10 billion file reputations.
- Change Tracker has a machine learning capability to quickly extend existing scheduled change rules to capture relevant unplanned events, or even to create new intelligent scheduled change rules on the fly.
- Identifies vulnerabilities in software and server configurations and close these gaps before they are exploited

Automated CIS Controls - Continuous Compliance

Reduce the work required to demonstrate compliance by automating repetitive tasks and using over **250 CIS-certified reports** including NIST, PCI DSS, CMMC, STIG, and NERC CIP.





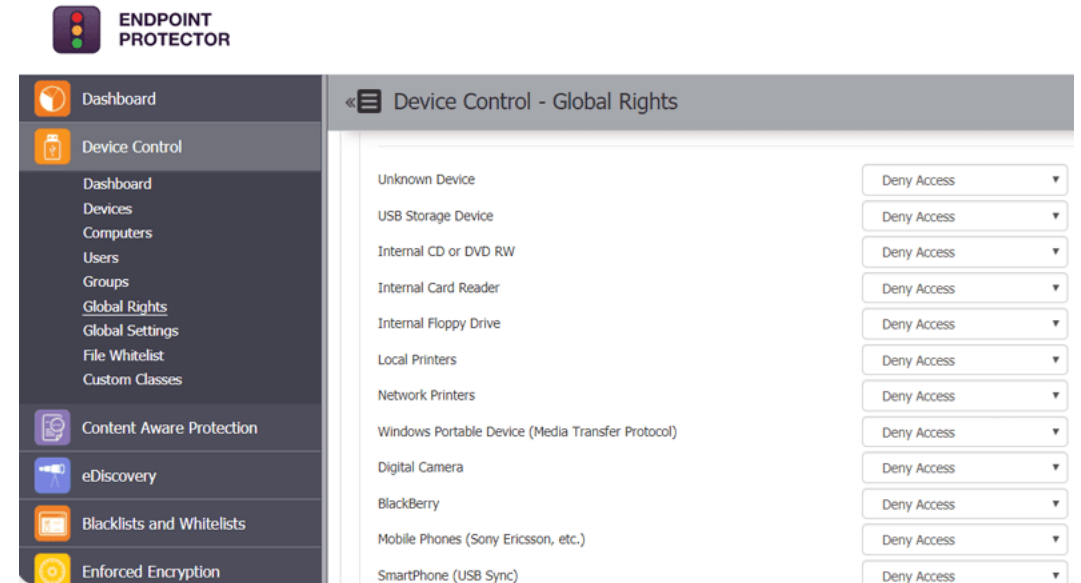
As reported by ART. §21.2 in points g, h and i regarding basic cyber hygiene practices, encryption and human resources security policies, access control, does Netwrix offer Data Loss Prevention solutions?



Basic Hygiene, Training, Encryption and Controls

Discover, monitor, and protect sensitive data across employee endpoints

- Ensure endpoint data loss prevention across all your endpoints, regardless of the operating system they run on. Netwrix Endpoint Protector's real-time DLP engine actively monitors and safeguards your sensitive data, preventing breaches, unauthorized sharing and malicious exfiltration to achieve regulatory compliance.
- Insider Threats: Prevents information leaks by attackers, negligent, or compromised users
- Extend device control policies by encrypting data moved to removable storage. Safeguards data in transit and ensures that sensitive data is protected in the event that your USB device is lost or stolen
- Remote wipe capabilities
- Multi-OS support



Device Control



Content-Aware Protection



Enforced Encryption



eDiscovery

**Visit our stand N1
to learn more
about NIS2 solutions**

Thank you!

Visit us at [netwrix.com](https://www.netwrix.com)