

GDPR Requirements

and Netwrix Functionality Mapping



About the GDPR

The General Data Protection Regulation (GDPR) is a legal act of the European Parliament and the Council that was adopted in April 2016 and came into force on May 25, 2018. The GDPR, formally known as Regulation (EU) 2016/679, primarily seeks to provide unified and clear rules on stronger data protection that are fit for the digital age, give individuals more control of their personal information processed by companies, and ease law enforcement. The GDPR replaces Directive 95/46/EC, which had been inconsistently interpreted by the various European Union member states since it was enacted in 1995.

The GDPR does far more than harmonize data protection law across the EU, however; it also has extraterritorial application. All organizations — even those not based in the EU — that offer goods or services to, or monitor the behavior of, European Union residents and therefore process any of their personal data are subject to GDPR compliance.

The extended jurisdiction of the GDPR is arguably the biggest change from the 1995 Directive. The other important principles laid down in the GDPR are the following:

- **Extended rights of data subjects** — These rights include the right of access, the right to data portability and the right to data erasure.
- **72-hour data breach notification** — If an organization suffers a personal data breach, it must notify the supervisory authority within 72 hours of becoming aware of it.
- **Privacy by design** — During both the planning and implementation phases of any new product or service, organizations must ensure that GDPR data protection principles and appropriate safeguards are addressed.
- **Accountability** — Organizations must ensure and demonstrate compliance with the data protection principles of the GDPR.

Fines for non-compliance with the GDPR depend on the infraction. In the case of a personal data breach (defined as a breach of security leading to the accidental or unlawful destruction, loss, alteration, unauthorized disclosure of or access to personal data transmitted, stored or otherwise processed), the fine is up to 4% of the company's annual worldwide turnover or €20 million, whichever is higher. For other infringements of GDPR provisions, the fine is up to 2% of annual worldwide turnover or €10 million, whichever is higher.

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Mapping of the provisions of the GDPR articles to Control Processes

The following table lists some of the key data protection provisions of the GDPR and explains how Netwrix can help your organization achieve compliance with those provisions. Please note that the efforts and procedures required to comply with GDPR requirements may vary depending on an organization's systems configuration, internal procedures, nature of business and other factors. Implementation of the procedures described below will not guarantee GDPR compliance, and not all the controls that Netwrix can possibly support are included. This mapping should be used as a reference guide to help you implement policies and procedures tailored to your organization's unique situation and needs.

GDPR Chapter II. Principles

GDPR Provision (Extracts. For the full text, refer to the original publication.)	Control Process
<p>Article 5. §1. Personal data shall be:</p> <p>(f) processed in a manner that ensures appropriate security of the personal data, including protection against unauthorised or unlawful processing and against accidental loss, destruction or damage, using appropriate technical or organisational measures ('integrity and confidentiality').</p>	<p>Identification and Authentication</p> <p>Access Control</p> <p>Configuration Management</p> <p>System and Information Integrity</p> <p>(To address this broad provision, an organization needs to implement a wide set of security procedures and organizational improvements from several different control families; no particular control process alone can ensure compliance with this requirement.)</p>
<p>Article 5. §2. The controller shall be responsible for, and be able to demonstrate compliance with, paragraph 1 ('accountability').</p>	<p>Audit and Accountability</p>

GDPR Chapter III. Rights of the data subject

GDPR Provision (Extracts. For the full text, refer to the original publication.)	Control Process
<p>Article 15. §1. The data subject shall have the right to obtain from the controller confirmation as to whether or not personal data concerning him or her are being processed, and, where that is the case, access to the personal data and the following information:</p> <p>(b) the categories of personal data concerned;</p>	<p>System and Information Integrity</p> <ul style="list-style-type: none"> Information Management and Retention

Article 16.

The data subject shall have the right to obtain from the controller without undue delay the rectification of inaccurate personal data concerning him or her. Taking into account the purposes of the processing, the data subject shall have the right to have incomplete personal data completed, including by means of providing a supplementary statement.

System and Information Integrity

- [Information Management and Retention](#)

Article 17. §1.

The data subject shall have the right to obtain from the controller the erasure of personal data concerning him or her without undue delay and the controller shall have the obligation to erase personal data without undue delay...

System and Information Integrity

- [Information Management and Retention](#)

Article 20. §1.

The data subject shall have the right to receive the personal data concerning him or her, which he or she has provided to a controller, in a structured, commonly used and machine-readable format and have the right to transmit those data to another controller without hindrance from the controller to which the personal data have been provided...

System and Information Integrity

- [Information Management and Retention](#)

GDPR Chapter IV. Controller and processor

GDPR Provision

(Extracts. For the full text, refer to the [original publication](#).)

Control Process

Article 24. §1.

...the controller shall implement appropriate technical and organisational measures to ensure and to be able to demonstrate that processing is performed in accordance with this Regulation. Those measures shall be reviewed and updated where necessary.

Audit and Accountability

Article 25. §1.

...the controller shall, both at the time of the determination of the means for processing and at the time of the processing itself, implement appropriate technical and organisational measures ... which are designed to implement data-protection principles ... and to integrate the necessary safeguards into the processing in order to meet the requirements of this Regulation and protect the rights of data subjects.

Article 25. §2.

The controller shall implement appropriate technical and organisational measures for ensuring that, by default, only personal data which are necessary for each specific purpose of the processing are processed.

That obligation applies to the amount of personal data collected, the extent of their processing, the period of their storage and their accessibility.

In particular, such measures shall ensure that by default personal data are not made accessible without the individual's intervention to an indefinite number of natural persons.

Article 32. §1.

...the controller and the processor shall implement appropriate technical and organisational measures to ensure a level of security appropriate to the risk, including...:

- (b) the ability to ensure the ongoing confidentiality, integrity, availability and resilience of processing systems and services;
- (c) the ability to restore the availability and access to personal data in a timely manner in the event of a physical or technical incident;
- (d) a process for regularly testing, assessing and evaluating the effectiveness of technical and organisational measures for ensuring the security of the processing.

[Identification and Authentication](#)

[Access Control](#)

[Incident Response](#)

[Risk Assessment](#)

[System and Information Integrity](#)

(To address this broad provision, an organization needs to implement a wide set of security procedures and organizational improvements from several different control families; no particular control process alone can ensure compliance with this requirement.)

[Access Control](#)

- [Access Enforcement](#)
- [Least Privilege](#)

[Incident Response](#)

- [Incident Detection](#)

[Risk Assessment](#)

- [Risk Assessment](#)
- [Security Categorization](#)

[Identification and Authentication](#)

[Access Control](#)

[Audit and Accountability](#)

[Configuration Management](#)

[Incident Response](#)

[Risk Assessment](#)

[System and Information Integrity](#)

(To address this broad provision, an organization needs to implement a wide set of security procedures and organizational improvements from several different control families; no particular control process alone can ensure compliance with this requirement.)

Article 32. §2.

In assessing the appropriate level of security account shall be taken in particular of the risks that are presented by processing, in particular from accidental or unlawful destruction, loss, alteration, unauthorised disclosure of, or access to personal data transmitted, stored or otherwise processed.

Article 32. §4.

The controller and processor shall take steps to ensure that any natural person acting under the authority of the controller or the processor who has access to personal data does not process them except on instructions from the controller, unless he or she is required to do so by Union or Member State law.

Article 33. §1.

In the case of a personal data breach, the controller shall without undue delay and, where feasible, not later than 72 hours after having become aware of it, notify the personal data breach to the supervisory authority...

Article 33. §3.

The notification referred to in paragraph 1 shall at least:

- (a) describe the nature of the personal data breach including where possible, the categories and approximate number of data subjects concerned and the categories and approximate number of personal data records concerned;

Article 34. §1.

When the personal data breach is likely to result in a high risk to the rights and freedoms of natural persons, the controller shall communicate the personal data breach to the data subject without undue delay.

Risk Assessment

- [Risk Assessment](#)
- [Security Categorization](#)

Access Control

- [Account Usage Monitoring](#)

Configuration Management

- [Access Restrictions for Changes](#)

Incident Response

- [Incident Detection](#)
- [Incident Analysis](#)

System and Information Integrity

- [Information System Monitoring](#)

Incident Response

- [Incident Detection](#)

Incident Response

- [Incident Detection](#)
- [Incident Analysis](#)

Incident Response

- [Incident Detection](#)
- [Incident Analysis](#)

GDPR Chapter IX. Provisions relating to specific processing situations

GDPR Provision (Extracts. For the full text, refer to the original publication .)	Control Process
<p>Article 86.</p> <p>Personal data in official documents held by a public authority or a public body or a private body for the performance of a task carried out in the public interest may be disclosed by the authority or body in accordance with Union or Member State law to which the public authority or body is subject in order to reconcile public access to official documents with the right to the protection of personal data pursuant to this Regulation.</p>	<p>System and Information Integrity</p> <ul style="list-style-type: none"> • Information Management and Retention
<p>Article 87.</p> <p>Member States may further determine the specific conditions for the processing of a national identification number or any other identifier of general application. In that case the national identification number or any other identifier of general application shall be used only under appropriate safeguards for the rights and freedoms of the data subject pursuant to this Regulation.</p>	<p>Identification and Authentication</p> <p>Access Control</p> <p>Audit and Accountability</p> <p>Configuration Management</p> <p>Incident Response</p> <p>Risk Assessment</p> <p>System and Information Integrity</p> <p>(To address this broad provision, an organization needs to implement a wide set of security procedures and organizational improvements from several different control families; no particular control process alone can ensure compliance with this requirement.)</p>
<p>Article 89. 51.</p> <p>Processing for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes, shall be subject to appropriate safeguards, in accordance with this Regulation, for the rights and freedoms of the data subject. Those safeguards shall ensure that technical and organisational measures are in place in particular in order to ensure respect for the principle of data minimization...</p>	<p>Identification and Authentication</p> <p>Access Control</p> <p>Audit and Accountability</p> <p>Configuration Management</p> <p>Incident Response</p> <p>Risk Assessment</p> <p>System and Information Integrity</p> <p>(To address this broad provision, an organization needs to implement a wide set of security procedures and organizational improvements from several different control families; no particular control process alone can ensure compliance with this requirement.)</p>

Control Processes

Control Processes Facilitated by Netwrix

From the compliance perspective, IT operations can be viewed and managed as a collection of control processes. Such processes allow focusing organizational efforts on a specific area of IT, enforcing certain policies, and establishing particular set of compliance controls. While control processes can be seen as separate entities for the purposes of implementation and management simplicity, in fact all these processes are deeply interconnected and often intrinsic to many regulations and best practices frameworks.

- [Identification and Authentication](#)
- [Access Control](#)
- [Audit and Accountability](#)
- [Configuration Management](#)
- [Incident Response](#)
- [Risk Assessment](#)
- [System and Information Integrity](#)

Identification and Authentication

The objective of the identification and authentication controls is to ensure that all users and devices accessing information systems are uniquely identifiable and their authenticity is verified before the system grants access. Identification and authentication are crucial for ensuring accountability of individual activity in the organizational information systems.

User Identification

Audit the identification and authentication processes for users who access your information systems.

How to Implement Control	Applicable Netwrix Features
<p>Cross-reference HR data with Active Directory user accounts in order to:</p> <ul style="list-style-type: none"> • Ensure that each user with a business need to access your information systems has a unique account. • Identify personal accounts that cannot be traced to a particular individual. 	<p> Active Directory State-in-Time reports</p> <ul style="list-style-type: none"> • User Accounts
<p>Review audit trails to check whether the use of shared accounts complies with your policies.</p>	<p> User Behavior and Blind Spot Analysis reports</p> <ul style="list-style-type: none"> • Logons by Single User from Multiple Endpoints <p> Interactive Search</p> <ul style="list-style-type: none"> • Who = <i>shared account</i>

Correlate employee absence data (typically from HR) with the access audit trail to spot suspicious activity.

- Active Directory – Logon Activity reports
 - All Logon Activity
- Active Directory Federation Services reports
- VMware – Logon Activity reports
 - All ESXi and vCenter Logon Activity
- Interactive Search
 - Action = *Interactive Logon*

Device Identification

Audit the identification and authentication processes for devices used to access your information systems.

How to Implement Control	Applicable Netwrix Features
Crosscheck the IT inventory against the list of computer accounts in Active Directory.	Active Directory — State-in-Time reports <ul style="list-style-type: none"> • Computer Accounts
Review all computer domain joins and all account creations, modifications and deletions to spot any unauthorized changes to computer accounts.	Active Directory Changes reports <ul style="list-style-type: none"> • Computer Account Changes Interactive Search <ul style="list-style-type: none"> • Object Type = <i>Computer</i>
Audit dynamic address allocation to devices by monitoring the DHCP server for: <ul style="list-style-type: none"> • DHCP scopes • Lease parameters and assignments 	Interactive Search <ul style="list-style-type: none"> • Object Type = <i>DHCP Scope</i>
Audit remote network connections to identify unauthorized remote devices.	Netwrix Auditor Add-on for RADIUS Server Active Directory - Logon Activity reports

Identifier Management

Audit provisioning, modification and de-provisioning of users and groups.

How to Implement Control	Applicable Netwrix Features
Review the creation, modification and deletion of users and groups to spot: <ul style="list-style-type: none"> • Unauthorized changes • Identifiers that do not comply with your naming standards and policies (e.g., no public, generic or reused identifiers) 	Active Directory Changes reports <ul style="list-style-type: none"> • User Account Changes Active Directory Changes reports <ul style="list-style-type: none"> • Security Group Changes Interactive Search <ul style="list-style-type: none"> • Object Type = <i>Group User</i>

Configure alerts to notify designated personnel about unauthorized account changes.



Custom alerts for user account modifications

Authenticator Management

Review changes to password policy requirements, and audit user and admin activity for policy compliance.

How to Implement Control

Applicable Netwrix Features

Audit changes to account policy settings to spot inappropriate or unauthorized modifications. Settings to check include:

- Account lockout threshold, duration and status reset
- Max/min password age
- Enforce password history
- Enforce strong passwords
- Irreversible password encryption



Active Directory – Group Policy Changes reports

- Account Policy Changes
- Password Policy Changes
- GPO Link Changes



Active Directory Group Policy State-in-Time reports

- Account Policies

Alert designated personnel about Group Policy changes related to account passwords.



Predefined Alerts

- Password Tampered

Audit administrative password resets to spot unauthorized or suspicious changes.



Active Directory Changes reports

- Password Resets by Administrator

Correlate new user account creation with account password resets to ensure that users change their initial password on first logon.



Active Directory Changes reports

- User Account Changes (added)
- User Password Changes



Interactive Search

- Details Contains 'Password Reset'

Ensure that accounts with credentials reported lost or compromised are promptly reset or disabled according to policy.



Active Directory Changes reports

- User Account Status Changes
- Password Resets by Administrator

Access Control

The goal of access control measures is to ensure that information system accounts are properly managed and that access is granted based on the principle of least privilege. Netwrix supports access control by enabling full visibility into account provisioning and deprovisioning, permissions management, and user activity.

Account Management Audit

Audit the creation, modification, enabling, disabling and removal of user accounts.

How to Implement Control	Applicable Netwrix Features
<p>Review changes to user accounts on key information systems to spot deviations from your account management policies and procedures.</p>	<ul style="list-style-type: none"> <li data-bbox="824 600 1490 793">  Active Directory Changes reports <ul style="list-style-type: none"> <li data-bbox="932 648 1219 680">• User Account Changes <li data-bbox="932 684 1295 716">• User Account Status Changes <li data-bbox="932 720 1268 751">• Recently Enabled Accounts <li data-bbox="932 756 1256 787">• Temporary User Accounts <li data-bbox="824 791 1490 873">  Azure AD reports <ul style="list-style-type: none"> <li data-bbox="932 842 1406 873">• User Account Management in Azure AD <li data-bbox="824 871 1490 953">  Oracle Database reports <ul style="list-style-type: none"> <li data-bbox="932 921 1214 953">• Account Management <li data-bbox="824 951 1490 1033">  Windows Server Changes reports <ul style="list-style-type: none"> <li data-bbox="932 1001 1336 1033">• Local Users and Groups Changes
<p>Alert designated security personnel whenever a sensitive account is changed.</p>	<ul style="list-style-type: none"> <li data-bbox="824 1062 1490 1260">  Predefined alerts <ul style="list-style-type: none"> <li data-bbox="932 1110 1154 1142">• Account Enabled <li data-bbox="932 1146 1162 1178">• Account Disabled <li data-bbox="932 1182 1151 1213">• Account Deleted <li data-bbox="932 1218 1382 1249">• Security Changes on Windows Server

Account Usage Monitoring

Monitor user activity for abnormal or suspicious events.

How to Implement Control	Applicable Netwrix Features
<p>Review user logons and resource access on a regular basis to spot abnormal account use and violations of account use policy.</p>	<ul style="list-style-type: none"> <li data-bbox="828 388 1291 420"> Activity Summary email notifications <li data-bbox="828 430 1291 462"> Active Directory Federation Services <ul style="list-style-type: none"> <li data-bbox="933 483 1477 514">• Active Directory Federation Services Overview <li data-bbox="933 525 1218 556">• Logons through AD FS <li data-bbox="828 556 1396 588"> User Behavior and Blind Spot Analysis reports <ul style="list-style-type: none"> <li data-bbox="933 609 1258 640">• Temporary User Accounts <li data-bbox="933 651 1266 682">• Recently Enabled Accounts <li data-bbox="933 693 1218 724">• Access to Archive Data <li data-bbox="933 735 1185 766">• Data Access Surges <li data-bbox="933 777 1323 808">• Activity Outside Business Hours <li data-bbox="933 819 1193 850">• Failed Activity Trend <li data-bbox="933 861 1380 913">• Logons by Multiple Users from Single Endpoint <li data-bbox="933 924 1372 997">• Logons by Single User from Multiple Endpoints <li data-bbox="933 1008 1274 1039">• Non-owner Mailbox Access <li data-bbox="828 1039 1258 1071"> VMware – Logon Activity reports <ul style="list-style-type: none"> <li data-bbox="933 1092 1356 1123">• All ESXi and vCenter Logon Activity
<p>Review user access to sensitive and regulated data to detect access policy violations.</p>	<ul style="list-style-type: none"> <li data-bbox="828 1218 1412 1333"> Data classification reports for file servers <ul style="list-style-type: none"> <li data-bbox="933 1260 1412 1333">• Sensitive Files and Folders Permissions Details <li data-bbox="933 1344 1453 1375">• Most Accessible Sensitive Files and Folders <li data-bbox="828 1375 1347 1407"> Data classification reports for SharePoint <ul style="list-style-type: none"> <li data-bbox="933 1417 1356 1449">• Sensitive Data Object Permissions <li data-bbox="933 1459 1388 1491">• Most Exposed Sensitive Data Objects <li data-bbox="828 1491 1421 1522"> Data classification reports for SharePoint Online <ul style="list-style-type: none"> <li data-bbox="933 1533 1356 1564">• Sensitive Data Object Permissions <li data-bbox="933 1575 1388 1606">• Most Exposed Sensitive Data Objects
<p>Enable designated security personnel to respond promptly to potential access abuse.</p>	<ul style="list-style-type: none"> <li data-bbox="828 1732 1079 1764"> Predefined alerts <ul style="list-style-type: none"> <li data-bbox="933 1774 1274 1806">• Logon to a Specific Machine <li data-bbox="933 1816 1388 1848">• Logon Attempt to a Disabled Account <li data-bbox="933 1858 1218 1890">• Multiple Failed Logons

<p>Review audit trails to spot use of shared accounts that violates your policies.</p>	<ul style="list-style-type: none">  Interactive Search <ul style="list-style-type: none"> • Who = <i>suspicious account</i>  User Behavior and Blind Spot Analysis reports <ul style="list-style-type: none"> • Logons by Single User from Multiple Endpoints  Interactive Search <ul style="list-style-type: none"> • Who = <i>shared account</i>
<p>Monitor privileged accounts usage to spot abnormal or suspicious events.</p>	<ul style="list-style-type: none">  Netwrix Auditor Add-on for CyberArk Privileged Access Security

Inactive Accounts

Disable unused accounts after a defined period of inactivity.

How to Implement Control	Applicable Netwrix Features
<p>Identify dormant or orphaned user and computer accounts and handle them appropriately according to policy.</p>	<ul style="list-style-type: none">  Inactive User Tracker tool, which can identify unused accounts and automatically: <ul style="list-style-type: none"> • Notify the manager • Disable the account • Change the password • Move the account to a specified OU • Remove the account  Active Directory State-in-Time reports <ul style="list-style-type: none"> • User Accounts – Last Logon Time

Role and Group Assignment

Review group and role assignments to ensure that user accounts meet established membership conditions and the principle of least privilege.

How to Implement Control	Applicable Netwrix Features
<p>Ensure that users are added security groups and access roles in accordance with the least privilege principle and only with proper authorization.</p>	<ul style="list-style-type: none">  Active Directory Changes reports <ul style="list-style-type: none"> • Security Group Membership Changes  Azure AD reports <ul style="list-style-type: none"> • Group Membership Changes in Azure AD  Active Directory State-in-Time reports <ul style="list-style-type: none"> • Group Members • Effective Group Membership  Windows Server State-in-Time reports <ul style="list-style-type: none"> • Local Users and Groups
<p>Monitor privileged group and role assignments to prevent unauthorized privilege escalation, and regularly review the membership of these groups and roles to validate the need for privileged access.</p>	<ul style="list-style-type: none">  Active Directory Changes reports <ul style="list-style-type: none"> • Administrative Group Membership Changes  User Behavior and Blind Spot Analysis reports <ul style="list-style-type: none"> • Temporary Users in Privileged Groups  Windows Server Changes reports <ul style="list-style-type: none"> • Local Users and Groups Changes  Active Directory State-in-Time reports <ul style="list-style-type: none"> • Administrative Group Members  Windows Server State-in-Time reports <ul style="list-style-type: none"> • Members of Local Administrators Group  Oracle Database reports <ul style="list-style-type: none"> • Privilege Management  SQL Server reports <ul style="list-style-type: none"> • All SQL Server Activity by Object Type (Object Type = <i>Server Role</i> <i>Database Role</i> <i>Application Role</i>) • SQL Server-Level Roles  Predefined alerts <ul style="list-style-type: none"> • Group Membership Changes

Personnel Status Changes

Ensure proper handling of the accounts and access permissions of temporary, transferred or terminated employees.

How to Implement Control	Applicable Netwrix Features
<p>Review audit trails to confirm that the user accounts of temporary and terminated employees are disabled or removed in all information systems and applications according to your policy.</p>	<ul style="list-style-type: none">  Active Directory Changes reports <ul style="list-style-type: none"> • User Account Changes • User Account Status Changes
<p>Review current access permissions of transferred or reassigned employees with particular attention on sensitive and regulated data to ensure they do not exceed their new job requirements.</p>	<ul style="list-style-type: none">  Active Directory Changes reports <ul style="list-style-type: none"> • User Account Changes  Active Directory State in Time reports <ul style="list-style-type: none"> • Users and Computers - Effective Group Membership  Data classification reports for file servers <ul style="list-style-type: none"> • Sensitive File and Folder Permissions Details  Data classification reports for SharePoint <ul style="list-style-type: none"> • Sensitive Data Object Permissions  Data classification reports for SharePoint Online <ul style="list-style-type: none"> • Sensitive Data Object Permissions

Access Enforcement

Ensure user permissions comply with your access control policies.

How to Implement Control	Applicable Netwrix Features
<p>Review access permissions for sensitive information assets on a regular basis to identify and rectify the following:</p> <ul style="list-style-type: none"> • Excessive permissions • Permissions assigned directly, rather than through roles and groups • Broken permission inheritance 	<ul style="list-style-type: none">  User Behavior and Blind Spot Analysis <ul style="list-style-type: none"> • Data Access • Excessive Permissions  File Servers State-in-Time reports <ul style="list-style-type: none"> • Folder and File Permission Details • Folder Permissions  SharePoint State-in-Time reports <ul style="list-style-type: none"> • SharePoint Object Permissions • SharePoint Site Collections with Broken Inheritance • SharePoint Objects with Broken Inheritance  SharePoint Online State-in-Time reports <ul style="list-style-type: none"> • SharePoint Online Object Permissions

- SharePoint Online Broken Permissions Inheritance
- SharePoint Online Objects with Broken Inheritance
- SharePoint Online Site Collections External Sharing



Exchange Online State-in-Time reports

- Mailbox Non-Owner Permissions Details
- Mailboxes Accessible by Non-Owners
- User Permissions on Delegated Mailboxes



SQL Server State-in-Time reports

- Object Permissions in SQL Server
- SQL Server-Level Roles
- SQL Server Means Granted



VMware State-in-Time reports

- Detailed Account Privileges in vCenter
- Object Permissions in v Center



Data classification reports for file servers

- Sensitive Files and Folders by Owner
- Sensitive File and Folder Permissions Details



Data classification reports for SharePoint

- Sensitive Data Object Permissions



Data classification reports for SharePoint Online

- Sensitive Data Object Permissions

Audit and alert on changes to permissions in order to promptly spot any improper or authorized modifications.



Predefined alerts

- File Share Permissions Changed
- Object Permissions Changed in Active Directory
- Security Changes on Windows Server



Activity Summary email notifications

Least Privilege

Maintain user access permissions based on the principle of least privilege.

How to Implement Control

Regularly review access rights granted to users and roles to ensure users have only the permissions they need to do their jobs.

Applicable Netwrix Features



User Behavior and Blind Spot Analysis reports

- Excessive Permissions



Active Directory Changes reports

- Object Security Changes
- Security Group Changes

-  Active Directory State-in-Time reports
 - Account Permissions in Active Directory
 - Object Permissions in Active Directory
 - Users and Computers - Effective Group Membership
-  Group Policy Changes reports
 - User Rights Assignment Policy Changes
 - Security Settings Changes
-  Exchange Server reports
 - Mailbox Delegation and Permissions Changes
-  File Servers Activity reports
 - Permissions Changes
-  File Servers State-in-Time reports
 - Account Permissions
 - Excessive Access Permissions
 - Folder and File Permission Details
 - Folder Permissions
-  Windows Server Changes reports
 - File Share Changes
-  SharePoint Activity reports
 - SharePoint Permission Changes by User
-  SharePoint State-in-Time reports
 - Account Permissions in SharePoint
 - SharePoint Site Collections Accessible by User Account
-  SharePoint Online State-in-Time reports
 - Account Permissions in SharePoint Online
 - SharePoint Online Object Permissions
 - SharePoint Online Site Collections Accessible by User Account
-  Exchange Online State-in-Time reports
 - Mailbox Non-Owner Permissions Details
 - Mailboxes Accessible by Non-Owners
 - User Permissions on Delegated Mailboxes
-  SQL Server State-in-Time reports
 - Object Permissions in SQL Server
 - Account Permissions in SQL Server
 - SQL Server-Level Roles
 - SQL Server Means Granted
-  VMware State-in-Time reports
 - Detailed Account Privileges in vCenter
 - Object Permissions in v Center
 - Account Permissions in vCenter

Ensure that privileged accounts are restricted to the specific users and roles who need access to security-related functions on the information systems.



Predefined alerts

- User Added to AD Administrative Group
- User Added to Windows Server Administrative Group



Netwrix Auditor Add-on for CyberArk Privileged Access Security

Ensure that privileged administrative accounts are used exclusively for performing security-related tasks.



Interactive Search

- Who = *privileged account*
- Use the In Group search filter to look for activity of all members of a privileged group



Windows Server User Activity reports

- User activity video recording (available even for systems and applications that do not produce logs)



Netwrix Auditor Add-on for CyberArk Privileged Access Security

Remote Access

Monitor remote access connections to ensure they conform to organizational secure access policies.

How to Implement Control	Applicable Netwrix Features
Review detailed remote access logon events along with AD logon activity.	<ul style="list-style-type: none">  Interactive Search <ul style="list-style-type: none"> • (Object Type = <i>RADIUS Logon</i>)  Active Directory - Logon Activity reports  Netwrix Auditor Add-on for RADIUS Server  Network Devices reports <ul style="list-style-type: none"> • VPN Logon Attempts
Monitor changes to security groups used for remote access authorization.	<ul style="list-style-type: none">  Active Directory Changes reports <ul style="list-style-type: none"> • Security Group Membership Changes  Interactive Search <ul style="list-style-type: none"> • Object Type = <i>Group</i> AND What CONTAINS <i>GroupID</i>  Predefined alerts <ul style="list-style-type: none"> • Group Membership Changes

Wireless Access

Monitor wireless network connections for conformance with your wireless networking policies.

How to Implement Control	Applicable Netwrix Features
Monitor wireless connections to your networks.	<ul style="list-style-type: none">  Network Devices reports
Monitor your wireless networking policies for unauthorized or inappropriate changes.	<ul style="list-style-type: none">  Active Directory – Group Policy Changes reports <ul style="list-style-type: none"> • Wireless Network Policy Changes

Use of External Information Systems

Control the use of external information systems, including cloud-based services.

How to Implement Control	Applicable Netwrix Features
<p>Audit user activity in SharePoint Online, Exchange Online and OneDrive for Business in order to discover and prevent violations of your information handling policies, such as the storing of sensitive data outside of your control boundaries.</p>	<ul style="list-style-type: none"> <li data-bbox="829 373 1250 422">  Office 365 Overview Dashboards <li data-bbox="829 430 1380 625">  SharePoint Online reports <ul style="list-style-type: none"> <li data-bbox="933 478 1380 510">• All SharePoint Online Activity by User <li data-bbox="933 516 1214 548">• Content Management <li data-bbox="933 554 1101 585">• Data Access <li data-bbox="933 592 1299 625">• Sharing and Security Changes <li data-bbox="829 625 1161 674">  Exchange Online reports <ul style="list-style-type: none"> <li data-bbox="933 674 1380 705">• All Exchange Online Changes by User <li data-bbox="829 705 1396 825">  User Behavior and Blind Spot Analysis reports <ul style="list-style-type: none"> <li data-bbox="933 753 1224 785">• Information Disclosure <li data-bbox="933 791 1143 825">• Suspicious Files
<p>Monitor successful and failed authentication attempts through AD FS to keep authentication to partner resources or cloud applications visible and under control.</p>	<ul style="list-style-type: none"> <li data-bbox="829 856 1377 905">  Active Directory Federation Services reports

Audit and Accountability

Audit and accountability measures are intended to maintain a trail of activity in information systems that ensures individuals can be held accountable for their actions. Netwrix solutions directly implement many of the audit and accountability requirements by capturing a complete audit trail and securely storing it for more than 10 years, enabling easy access to audit information for investigations and compliance reviews, and enabling video recording of user activity in systems that do not produce audit events.

Audit Record Generation

Generate audit records containing information that establishes what type of event occurred, when and where it occurred, the source of the event, the outcome of the event, and the identity of any individuals associated with the event.

How to Implement Control	Applicable Netwrix Features
Collect detailed records (including Who, What, When, Where and Where details) of events in your information systems and applications.	 A complete audit trail from across all IT systems and applications  Data-in API, which enables creation of add-ons for integrating Netwrix with other systems and applications
Adjust the data collection settings to ensure the audit trail contains all required details.	 Review reports and Interactive Search results and fine-tune monitoring plans as needed

Audit Record Retention

Retain audit records for the time period required by your record retention policy or by compliance regulations.

How to Implement Control	Applicable Netwrix Features
Store your audit data in a way that ensures easy access for incident investigations while meeting long-term retention requirements specified by your policies or regulatory mandates.	 AuditArchive™, a two-tiered storage that provides: <ul style="list-style-type: none"> • SQL Server audit database for operational reporting (data is stored for 180 days by default) • Separate file-based archive for long-term storage of audit data (data is stored for 10 years by default)

Audit Trail Review

Regularly review audit records for indications of inappropriate or unusual activity and report findings to appropriate personnel, such as your incident response team or InfoSec group.

How to Implement Control	Applicable Netwrix Features
<p>Regularly review a consolidated audit trail across your critical information systems.</p>	<ul style="list-style-type: none">  Predefined change and activity reports  Activity Summary email notifications  Interactive Search
<p>Export reports for evidence when reporting inappropriate or unusual activity to responsible security staff.</p>	<ul style="list-style-type: none">  Export of reports to a variety of formats, including PDF and Microsoft Excel
<p>Configure alerts to automatically trigger incidents in your IT service support management (ITSSM) solution.</p>	<ul style="list-style-type: none">  Netwrix Auditor Add-On for ServiceNow Incident Management (ticket creation)
<p>Add audit records from other key systems and applications to your system-wide, time-correlated audit trail.</p>	<ul style="list-style-type: none">  Netwrix Auditor Add-On for Linux Systems  Netwrix Auditor Add-On for Privileged User Monitoring on Linux and Unix Systems  Netwrix Auditor Add-On for RADIUS Server  Data-in API, which enables creation of add-ons for integrating Netwrix with other systems and applications
<p>Ensure integrity of auditing process by monitoring changes to audit scope.</p>	<ul style="list-style-type: none">  Netwrix Auditor Self-Audit

Report Generation and Audit Reduction

Provide summary reports to support on-demand audit review, analysis and reporting requirements and incident investigations without altering the original audit logs.

How to Implement Control	Applicable Netwrix Features
<p>Aggregate audit records from multiple information systems.</p>	<ul style="list-style-type: none">  Enterprise Overview Dashboards, Overview Diagrams, Organization Level reports, predefined change and activity reports  Activity Summary email notifications
<p>Generate custom reports on events of interest across all monitored systems.</p>	<ul style="list-style-type: none">  Reports based on Interactive search results

Protection of Audit Information

Protect audit information and audit tools from unauthorized access, modification and deletion.

How to Implement Control	Applicable Netwrix Features
<p>Protect audit information by storing it in a physically separate repository.</p>	<p> AuditArchive™, a two-tiered storage that provides:</p> <ul style="list-style-type: none"> • SQL Server audit database for operational reporting • Separate file-based archive for long-term storage of audit data
<p>Restrict access to audit records and tools by assigning security personnel to operational roles using the least privilege principle</p>	<p> Role delegation for audit configuration and review, both on the global level and on the individual monitoring plan level</p>
<p>Monitor changes to your audit configuration settings to spot modification that could reduce the level of audit, either intentionally or by accident.</p>	<p> Group Policy Changes reports</p> <ul style="list-style-type: none"> • Audit Policy Changes <p> Windows Server Changes reports</p> <ul style="list-style-type: none"> • Audit Log Clearing report • Local Audit Policy Changes report <p> Netwrix Auditor Self-Audit</p>

Session Audit

Capture user activity for audit purposes.

How to Implement Control	Applicable Netwrix Features
<p>Record user activity in mission-critical systems.</p>	<p> Windows Server User Activity reports</p> <ul style="list-style-type: none"> • User activity video recording (available even for systems and applications that do not produce logs) <p> Netwrix Auditor Add-on for CyberArk Privileged Access Security</p>

Response to Audit Processing Failures

Monitor for audit processing failures and take corrective actions to restore normal audit capturing process.

How to Implement Control	Applicable Netwrix Features
<p>Monitor the status of audit data collection across managed systems and audit storage capacity on a regular basis</p>	<p> Health Status dashboard</p> <p> Health Summary report</p>

Alert designated personnel about audit failures.



Event Log Manager

- System health alerts

Configuration Management

Configuration management is required to ensure that the configuration of information systems complies with internal policies and external regulations, and that all changes are both proper and authorized.

Baseline Configuration

Establish and maintain baseline configurations and inventories of organizational information systems.

How to Implement Control

Review the configuration of your Windows servers and identify deviations from the established baseline.



Windows Server State-in-Time reports

- Windows Server Inventory
- Windows Server Configuration Details
- Members of Local Administrators Group

Configuration Change Control

Audit changes to the configuration of your information systems.

How to Implement Control

Review changes to the server and network infrastructure to ensure that only authorized changes are being implemented in accordance with your change management procedures.



Windows Server Changes reports

- All Windows Server Changes



Active Directory – Group Policy Changes



VMware reports

- All VMware changes



SharePoint reports

- SharePoint Configuration Changes



Exchange reports

- Database Changes
- New Exchange Servers

Network Devices reports

- Configuration Changes on Network Devices
- Logons to Network Devices



Interactive Search

- Source = *Windows Server*
- Source = *Policy*
- Source = *Netwrix API*

Identify inappropriate or unapproved changes (e.g., installation of non-approved software).



- Windows Server Changes reports
- All Windows Server Changes with Review Status

Alert designated security personnel to critical change events to enable timely response.



Custom alerts on specific configuration changes

Access Restrictions for Changes

Establish and enforce logical access restrictions associated with changes to the information system.

How to Implement Control

Ensure that information system configuration is limited to authorized users by reviewing privileged security groups and monitoring changes to their membership.



- Windows Server State-in-Time reports
- Members of Local Administrator Group
 - Local Users and Groups



- Windows Server Changes reports
- Local Users and Groups Changes



- Predefined alerts
- User Added to Windows Server Administrative Group

Monitor all activities associated with the privileged identities to detect unwanted configuration changes.



Netwrix Auditor Add-on for CyberArk Privileged Access Security

User-Installed Software

Control and monitor user-installed software.

How to Implement Control

Exercise security control over programs and applications on your critical Windows Servers by maintaining an inventory of resident software and ensuring that only permitted software is installed.



- Windows Server State-in-Time reports
- Windows Server Configuration Details
 - Installed Software

Incident Response

Incident response controls prescribe careful planning of response measures to security incidents on the organizational level, along with proper training of personnel and regular testing of the plan. The plan should cover incident detection, analysis, containment and recovery. Netwrix capabilities relating to incident response revolve around the detection (including automated response triggering through the ServiceNow integration) and analysis aspects of security incident handling.

Incident Detection

Detect security incidents in a timely manner.

How to Implement Control	Applicable Netwrix Features
<p>Regularly review user activity (system logons, resource access, configuration changes) across information systems to spot abnormal behavior that could lead to a security breach.</p>	<ul style="list-style-type: none"> <li data-bbox="829 636 1468 751">  Behavior Anomalies Discovery <ul style="list-style-type: none"> <li data-bbox="932 688 1357 720">• Top users with behavior anomalies <li data-bbox="932 726 1430 758">• Detailed trail of user anomalous behavior <li data-bbox="829 743 1468 1068">  User Behavior and Blind Spot Analysis reports <ul style="list-style-type: none"> <li data-bbox="932 806 1256 837">• Temporary User Accounts <li data-bbox="932 844 1268 875">• Recently Enabled Accounts <li data-bbox="932 882 1219 913">• Access to Archive Data <li data-bbox="932 919 1183 951">• Data Access Surges <li data-bbox="932 957 1321 989">• Activity Outside Business Hours <li data-bbox="932 995 1192 1026">• Failed Activity Trend <li data-bbox="932 1033 1382 1106">• Logons by Multiple Users from Single Endpoint <li data-bbox="829 1073 1468 1188">  Data classification reports for files servers <ul style="list-style-type: none"> <li data-bbox="932 1157 1468 1188">• Activity Related to Sensitive Files and Folders <li data-bbox="829 1194 1468 1268">  Data classification reports for SharePoint <ul style="list-style-type: none"> <li data-bbox="932 1236 1422 1268">• Activity Related to Sensitive Data Objects <li data-bbox="829 1274 1468 1365">  Data classification reports for SharePoint Online <ul style="list-style-type: none"> <li data-bbox="969 1337 1468 1365">• Activity Related to Sensitive Data Objects
<p>Configure alerts to automatically notify designated security staff of a potential incident or initiate an automated response script, based on either a triggering event or a defined threshold.</p>	<ul style="list-style-type: none"> <li data-bbox="829 1398 1487 1629">  Predefined alerts <ul style="list-style-type: none"> <li data-bbox="932 1440 1252 1472">• User Account Locked Out <li data-bbox="932 1478 1414 1509">• User Added to AD Administrative Group <li data-bbox="932 1516 1487 1589">• User Added to Windows Server Administrative Group <li data-bbox="932 1596 1373 1627">• Unrestricted Access to the File Share <li data-bbox="829 1640 1487 1713">  Custom alerts based on either a triggering event or a defined threshold <li data-bbox="829 1719 1487 1755">  Automated Response

Incident Analysis

Investigate anomalous activity and events that are detected.

How to Implement Control	Applicable Netwrix Features
<p>Perform forensic analysis of each potential security incident to understand its full scope and impact on information systems and protected data, and determine appropriate response measures including reporting of the incidents within the organization and to authorities and affected parties.</p>	<ul style="list-style-type: none"> <li data-bbox="828 388 1461 457">  Interactive Search <ul style="list-style-type: none"> <li data-bbox="933 430 1218 457">• Who and Where filters <li data-bbox="828 462 1461 531">  Windows Server User Activity reports <ul style="list-style-type: none"> <li data-bbox="933 510 1404 537">• Replay of user activity video recordings <li data-bbox="828 535 1461 604">  Behavior Anomalies Discovery <ul style="list-style-type: none"> <li data-bbox="933 590 1429 617">• Detailed trail of user anomalous behavior <li data-bbox="828 615 1461 684">  Data classification reports for file servers <ul style="list-style-type: none"> <li data-bbox="933 663 1461 690">• Activity Related to Sensitive Files and Folders <li data-bbox="828 688 1461 758">  Data classification reports for SharePoint <ul style="list-style-type: none"> <li data-bbox="933 743 1421 770">• Activity Related to Sensitive Data Objects <li data-bbox="828 768 1461 837">  Data classification reports for SharePoint Online <ul style="list-style-type: none"> <li data-bbox="933 823 1421 850">• Activity Related to Sensitive Data Objects <li data-bbox="828 856 1461 926">  Netwrix Auditor Add-on for CyberArk Privileged Access Security <li data-bbox="828 945 1461 1003">  Netwrix Auditor Add-on for Nutanix AHV
<p>Adjust alerts settings or create new alerts based on findings from the security incident analysis.</p>	<ul style="list-style-type: none"> <li data-bbox="828 1039 1356 1081">  Custom alerts based on Interactive Search

Incident Mitigation

Respond quickly to a security incident to mitigate its effects.

How to Implement Control	Applicable Netwrix Features
<p>Automate the triggering of incident response procedures upon detection of suspicious activity to ensure timely response and remediation.</p>	<ul style="list-style-type: none"> <li data-bbox="828 1358 1429 1428">  Netwrix Auditor Add-On for ServiceNow Incident Management
<p>Ensure instant response to anticipated incidents by scripting.</p>	<ul style="list-style-type: none"> <li data-bbox="828 1526 1226 1568">  Automated Response on alerts
<p>Quickly revert unauthorized changes to accounts and configuration.</p>	<ul style="list-style-type: none"> <li data-bbox="828 1652 1177 1694">  Predefined change reports <ul style="list-style-type: none"> <li data-bbox="933 1694 1226 1722">• Before and after details <li data-bbox="828 1722 1323 1764">  Object Restore for Active Directory tool

Risk Assessment

Every organization needs to conduct information system risk assessments to understand the likelihood and magnitude of harm from various threats so they can prioritize them and mitigate risk to an acceptable level. Netwrix reports on configuration risk factors common in Microsoft-centric IT infrastructures and estimates their impact in your environment. In addition, the data discovery and classification functionality enables data risk assessments based on the sensitivity of the information stored and processed by the organizational information systems.

Risk Assessment

Regularly assess risks to your information systems and act on the findings.

How to Implement Control	Applicable Netwrix Features
<p>Examine the configuration of your information systems using common security best practices and identify risks that may require mitigation in the following areas:</p> <ul style="list-style-type: none"> • Account management • Data governance • Security permissions 	<p> IT Risk Assessment Overview dashboard with drill-down reports</p> <ul style="list-style-type: none"> • Users and Computers • Data • Permissions • Infrastructure
<p>Review the results of data classification to assess the risks posed by sensitive data not being stored and processed according to the established data security policy.</p>	<p> Data classification reports for file servers</p> <ul style="list-style-type: none"> • Overexposed Files and Folders • Most Accessible Sensitive Files and Folders • Sensitive Files Count by Source • File and Folder Categories by Object <p> Data classification reports for SharePoint</p> <ul style="list-style-type: none"> • Most Exposed Sensitive Data Objects • Sensitive Data Objects by Site Collection <p> Data classification reports for SharePoint Online</p> <ul style="list-style-type: none"> • Most Exposed Sensitive Data Objects • Sensitive Data Objects by Site Collection <p> Netwrix Data Classification provides simple reporting capabilities that help identify sensitive content stored across file servers, SharePoint and SharePoint Online sites, Exchange mailboxes, SQL and Oracle databases and cloud storages (Google Drive, Box and Dropbox).</p>

Security Categorization

Conduct the security categorization process for the data hosted by the organization.

How to Implement Control	Applicable Netwrix Features
<p>Perform automated discovery of relevant types of sensitive and regulated data in order to prioritize data protection measures.</p>	<p> Netwrix Data Classification enables you to adjust predefined data categorization rules or define new rules.</p>

System and Information Integrity

System and information integrity measures aim to protect information systems and the data they store and process from being compromised by outsider attackers and malicious insiders. Netwrix reports and alerts on user behavior indicative of an attack or unauthorized use of information systems.

Information System Monitoring

Monitor your information systems for indicators of potential attacks and unauthorized activity.

How to Implement Control	Applicable Netwrix Features
<p>Spot and investigate anomalies in user behavior in time to block external attackers who have compromised valid user accounts, as well as trusted insiders who have gone rogue.</p>	<p> Behavior Anomalies Discovery</p> <ul style="list-style-type: none"> • List of users with the most behavior anomalies • Detailed trail of each user's anomalous actions
<p>Configure alerts to automatically notify designated security staff of a potential attack or unauthorized activity.</p>	<p> Predefined alerts</p> <ul style="list-style-type: none"> • User Account Locked Out • User Added to AD Administrative Group • User Added to Windows Server Administrative Group • Unrestricted Access to the File Share <p> Custom alerts based on either a triggering event or a defined threshold</p>

Information Management and Retention

Manage and retain sensitive personal information in accordance with applicable laws, regulations and operational requirements.

How to Implement Control	Applicable Netwrix Features
<p>Ensure that personally identifiable and other sensitive information in the organizational data repositories is appropriately secured, including protection against unauthorized disclosure or accidental loss.</p>	<ul style="list-style-type: none"> <li data-bbox="828 420 1461 577">  Data classification reports for file servers <ul style="list-style-type: none"> • Overexposed Files and Folders • Most Accessible Sensitive Files and Folders • Sensitive File and Folder Permissions Details <li data-bbox="828 577 1461 724">  Data classification reports for SharePoint <ul style="list-style-type: none"> • Overexposed Sensitive Data Objects • Most Exposed Sensitive Data Objects • Sensitive Data Object Permissions <li data-bbox="828 724 1461 882">  Data classification reports for SharePoint Online <ul style="list-style-type: none"> • Overexposed Sensitive Data Objects • Most Exposed Sensitive Data Objects • Sensitive Data Object Permissions <li data-bbox="828 882 1461 1050">  Data Remediation Workflows enable automatic response actions including sensitive content redaction, documents quarantining, permission lockdown and email notifications. <li data-bbox="828 1050 1461 1176">  Data Tagging enables integration with DLP solutions to enforce data protection policies using persistent classification tags. <li data-bbox="828 1176 1461 1302">  Netwrix Data Classification integrates with Microsoft Information Protection (MIP) to enrich its security capabilities with accurate labeling of data.
<p>Monitor for personally identifiable and other sensitive information in the organizational data repositories, which exceeds its legitimate retention time.</p>	<ul style="list-style-type: none"> <li data-bbox="828 1344 1461 1470">  Data classification reports for file servers <ul style="list-style-type: none"> • Sensitive Files Count by Source • File and Folder Categories by Object <li data-bbox="828 1470 1461 1543">  Data classification reports for SharePoint <ul style="list-style-type: none"> • Sensitive Data Objects by Site Collection <li data-bbox="828 1543 1461 1627">  Data classification reports for SharePoint Online <ul style="list-style-type: none"> • Sensitive Data Objects by Site Collection <li data-bbox="828 1627 1461 1827">  Data Remediation Workflows help to enforce data retention polices based on document classification. Policy actions may include migration or removal of obsolete data, email notification to initiate disposition review, etc.

Establish processes and procedures to support customers wishing to exercise their data subject rights:

- Right of access
- Right to rectification
- Right to erasure (right to be forgotten)
- Right to portability



DSAR searches enable you to locate personal data instances across file servers, SharePoint and SharePoint Online sites, SQL and Oracle databases, Exchange mailboxes and cloud storages (Google Drive, Box and Dropbox).

Data Sanitization

Perform data sanitization on sensitive information outside of authorized storage boundaries.

How to Implement Control

Implement appropriate de-identification, redaction or similar measures to comply with legal obligations and mitigate the risk of unauthorized data access.

Applicable Netwrix Features



Data Remediation Workflows enable automatic document redaction to mask sensitive information and/or move the file to a designated secure location.

About Netwrix

Netwrix is a software company that enables information security and governance professionals to reclaim control over sensitive, regulated and business-critical data, regardless of where it resides. Over 10,000 organizations worldwide rely on Netwrix solutions to secure sensitive data, realize the full business value of enterprise content, pass compliance audits with less effort and expense, and increase the productivity of IT teams and knowledge workers.

For more information, visit www.netwrix.com.

Next Steps

Free Trial — Set up Netwrix in your own test environment: netwrix.com/freetrial

In-Browser Demo — Take an interactive product demo in your browser:
netwrix.com/browser_demo

Live Demo — Take a product tour with a Netwrix expert: netwrix.com/livedemo

Request Quote — Receive pricing information: netwrix.com/buy

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