

GDPR Requirements

and Netwrix Auditor Mapping



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About the GDPR

The General Data Protection Regulation (GDPR) is a legal act of the European Parliament and the Council (Regulation (EU) 2016/679) that was adopted in April 2016 and comes into force on May 25, 2018. The GDPR 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 will repeal the current legal act (Directive 95/46/EC) enacted in 1995, which has been inconsistently interpreted by the various European Union member states.

In addition to harmonizing data protection law across the E.U., the new regulation will also affect non-European companies that offer goods or services to, or monitor the behavior of, European Union residents, and therefore process any of their personal data. This refers to the extraterritorial application of the law. In other words, organizations of all types from across all industries that are established outside the European Union but that conduct business within it will be subject to GDPR compliance starting May 25, 2018.

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

- **Extended rights of data subjects** These, among others, include the right of access, the right to data portability and the right to data erasure.
- **72-hour data breach notification** In the case of a personal data breach, an organization must notify the supervisory authority not later than 72 hours after having become aware of it.
- **Privacy by design** Organizations must ensure that, both in the planning phase of processing activities and in the implementation phase of any new product or service, GDPR data protection principles and appropriate safeguards are addressed and implemented.
- Accountability An organization 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.



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 Auditor 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 Auditor 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

| GDPR Provision (Extracts. For the full text, refer to the original publication) | Control Process |
|---|--|
| Article 5. §1. Personal data shall be: (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'). | Identification and Authentication Access Control Configuration Management 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 5. §2. The controller shall be responsible for, and be able to demonstrate compliance with, paragraph 1 | Audit and Accountability |

GDPR Chapter IV

('accountability').

| GDPR Provision (Extracts. For the full text, refer to the <u>original publication</u>) | Control Process |
|---|--------------------------|
| Article 24. §1the 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
- **(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

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

Identification and Authentication

Access Control

Configuration Management

Incident Response

Risk Assessment

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.

Risk Assessment

Risk Assessment

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.

Access Control

• Account Usage Monitoring

Configuration Management

• Access Restrictions for Changes

Incident Response

- Incident Detection
- Incident Analysis

System and Information Integrity

• Information System Monitoring

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...

Incident Response

Incident Detection



Control Processes

Control Processes Facilitated by Netwrix Auditor

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

Cross-reference HR data with Active Directory user accounts in order to:

- 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.

Applicable Netwrix Auditor Features



Active Directory State-in-Time reports

User Accounts

Review audit trails to check whether the use of shared accounts complies with your policies.



User Behavior and Blind Spot Analysis reports

 Logons by Single User from Multiple Endpoints



Interactive Search

Who = shared account



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



Active Directory – Logon Activity reports

• All Logon Activity



lnteractive 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 Auditor Features |
|--|--|
| Crosscheck the IT inventory against the list of computer accounts in Active Directory. | Active Directory — State-in-Time reports • 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 Computer Account Changes Interactive Search Object Type = Computer |
| Audit dynamic address allocation to devices by monitoring the DHCP server for: • DHCP scopes • Lease parameters and assignments | Interactive SearchObject Type = DHCP Scope |
| 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 Auditor Features |
|--|--|
| Review the creation, modification and deletion of users and groups to spot: Unauthorized changes Identifiers that do not comply with the your naming standards and policies (e.g., no public, generic or reused identifiers) | Active Directory Changes reports • User Account Changes Active Directory Changes reports • Security Group Changes Interactive Search • Object Type = Group User |
| 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 Auditor Features

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



- 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 alert

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 Auditor 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.

Applicable Netwrix Auditor Features How to Implement Control Review changes to user accounts on key information Active Directory Changes reports systems to spot deviations from your account • User Account Changes management policies and procedures. • User Account Status Changes · Recently Enabled Accounts • Temporary User Accounts Azure AD reports • User Account Management in Azure AD Oracle Database reports • Account Management Windows Server Changes reports • Local Users and Groups Changes Predefined alerts Alert designated security personnel whenever a sensitive account is changed. Account Enabled Account Disabled Account Deleted • Security Changes on Windows Server

Account Usage Monitoring

Monitor user activity for abnormal or suspicious events.

| Monitor aser activity for astronnar or suspicious events. | |
|--|--|
| How to Implement Control | Applicable Netwrix Auditor Features |
| Review user logons and resource access on a regular basis to spot abnormal account use and violations of account use policy. | Activity Summary email notifications User Behavior and Blind Spot Analysis reports Temporary User Accounts Recently Enabled Accounts Access to Archive Data Data Access Surges Activity Outside Business Hours Failed Activity Trend |



- Logons by Multiple Users from Single Endpoint
- Logons by Single User from Multiple **Endpoints**
- Non-owner Mailbox Access

Enable designated security personnel to respond promptly to potential access abuse.



Predefined alerts

- Logon to a Specific Machine alert
- Logon Attempt to a Disabled Account alert
- Multiple Failed Logons alert



Interactive Search

• Who = suspicious account

Review audit trails to spot use of shared accounts that violates your policies.



User Behavior and Blind Spot Analysis reports

• Logons by Single User from Multiple **Endpoints**



Interactive Search

• Who = shared account

Inactive Accounts

Disable unused accounts after a defined period of inactivity.

How to Implement Control

Applicable Netwrix Auditor Features

Identify dormant or orphaned user and computer accounts and handle them appropriately according to policy.



Inactive User Tracker tool, which can identify unused accounts and automatically:

- · 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

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

Ensure that users are added security groups and access roles in accordance with the least privilege principle and only with proper authorization.

Applicable Netwrix Auditor Features



Active Directory Changes reports

• Security Group Membership Changes



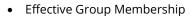
Azure AD reports





Active Directory State-in-Time reports







Windows Server State-in-Time reports

Local Users and Groups

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.



Active Directory Changes reports





User Behavior and Blind Spot Analysis reports





Windows Server Changes reports



Local Users and Groups Changes

Active Directory State-in-Time reports
Administrative Group Members



Windows Server State-in-Time reports



Members of Local Administrators Group



Oracle Database reports



• Privilege Management



 All SQL Server Activity by Object Type (Object Type = Server Role | Database Role |Application Role)



Predefined alerts

• 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 Auditor Features

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.



Active Directory Changes reports

- User Account Changes
- User Account Status Changes

Review current access permissions of transferred or reassigned employees to ensure they do not exceed their new job requirements.



Active Directory Changes reports

User Account Changes

Access Enforcement

Ensure user permissions comply with your access control policies.

How to Implement Control

Applicable Netwrix Auditor Features

Data Access

Review access permissions for sensitive information assets on a regular basis to identify and rectify the following:



User Behavior and Blind Spot Analysis

- Excessive Permissions



File Servers State-in-Time reports

• Object Permissions By Object

- Excessive permissions
- Permissions assigned directly, rather than through roles and groups
- Broken permission inheritance

Predefined alerts

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



Activity Summary email notifications

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



Least Privilege

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

| How to Implement Control | Applicable Netwrix Auditor Features |
|--|--|
| Regularly review access rights granted to users and roles to ensure users have only the permissions they need to do their jobs. | 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 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 Object Permissions by Object Windows Server Changes reports File Share Changes |
| 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 |
| Ensure that privileged administrative accounts are used exclusively for performing security-related tasks. | Interactive Search Who = privileged account Windows Server User Activity reports User activity video recording (available even for systems and applications that do not produce logs) |



Remote Access

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

| How to Implement Control | Applicable Netwrix Auditor Features |
|--|--|
| Review detailed remote access logon events along with AD logon activity. | Interactive Search • (Object Type = RADIUS Logon) Active Directory - Logon Activity reports Netwrix Auditor Add-on for RADIUS Server |
| Monitor changes to security groups used for remote access authorization. | Active Directory Changes reports • Security Group Membership Changes Interactive Search • Object Type = Group AND What CONTAINS GroupID Predefined alerts • Group Membership Changes |

Wireless Access

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

| How to Implement Control | Applicable Netwrix Auditor Features |
|--|--|
| Monitor wireless connections to your networks. | Netwrix Auditor Add-on for Cisco Network Devices |
| Monitor your wireless networking policies for unauthorized or inappropriate changes. | Active Directory – Group Policy Changes reports • 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 Auditor Features |
|--|--|
| 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. | Office 365 Overview SharePoint Online reports All SharePoint Online Activity by User Content Management Data Access Sharing and Security Changes User Behavior and Blind Spot Analysis reports Information Disclosure Suspicious Files |



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 Auditor directly implements 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 Auditor 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 Auditor 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 Auditor 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:

- 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 Auditor Features |
|---|---|
| Regularly review a consolidated audit trail across your critical information systems. | Predefined change and activity reports Activity Summary email notifications Interactive Search |
| Export reports for evidence when reporting inappropriate or unusual activity to responsible security staff. | Export of reports to a variety of formats, including PDF and Microsoft Excel |
| Configure alerts to automatically trigger incidents in your IT service support management (ITSSM) solution. | Netwrix Auditor Add-On for ServiceNow Incident Management (ticket creation) |
| Add audit records from other key systems and applications to your system-wide, time-correlated audit trail. | Netwrix Auditor Add-On for Cisco Network Devices 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 Auditor with other systems and applications |

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 Auditor Features |
|---|--|
| Aggregate audit records from multiple information systems. | Enterprise Overview Dashboards, Overview Diagrams, Organization Level reports, predefined change and activity reports Activity Summary email notifications |
| Generate custom reports on events of interest across all monitored systems. | Reports based on Interactive search results |



Protection of Audit Information

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

Applicable Netwrix Auditor Features How to Implement Control Protect audit information by storing it in a physically \$\$\frac{1}{2}\$ AuditArchive™, a two-tiered storage that provides: • SQL Server audit database for operational separate repository. reporting Separate file-based archive for long-term storage of audit data Restrict access to audit records and tools by assigning Role delegation for audit configuration and review, security personnel to operational roles using the least both on the global level and on the individual privilege principle monitoring plan level **Group Policy Changes reports** Monitor changes to your audit configuration settings to • Audit Policy Changes spot modification that could reduce the level of audit, either intentionally or by accident. Windows Server Changes reports • Audit Log Clearing report • Local Audit Policy Changes report

Session Audit

Capture user activity for audit purposes.

| How to Implement Control | Applicable Netwrix Auditor Features |
|---|--|
| Record user activity in mission-critical systems. | Windows Server User Activity reports User activity video recording (available even for systems and applications that do not produce logs) |

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 Auditor Features |
|--|---|
| 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

Applicable Netwrix Auditor Features

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 Applicable Netwrix Auditor Features Review changes to the server and network infrastructure Windows Server Changes reports • Windows Server Changes to ensure that only authorized changes are being implemented in accordance with you change Active Directory - Group Policy Changes management procedures. VMware reports All VMware change SharePoint reports • SharePoint Configuration Changes **Exchange reports** • Database Changes • New Exchange Servers Interactive Search • Source = Windows Server • Source = Policy Source = Netwrix API Windows Server Changes reports Identify inappropriate or unapproved changes (e.g., installation of non-approved software). • Windows Server Changes with Review Status () Custom alerts on specific configuration changes Alert designated security personnel to critical change events to enable timely response.



Access Restrictions for Changes

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

How to Implement Control

Applicable Netwrix Auditor Features

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

User-Installed Software

Control and monitor user-installed software.

How to Implement Control

permitted software is installed.

Applicable Netwrix Auditor Features



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

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 Auditor 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

Regularly review user activity (system logons, resource access, configuration changes) across information systems to spot abnormal behavior that could lead to a security breach.

Applicable Netwrix Auditor Features



Behavior Anomalies Discovery

- Top users with behavior anomalies
- Detailed trail of user anomalous behavior



User Behavior and Blind Spot Analysis reports

- Temporary User Accounts
- Recently Enabled Accounts
- Access to Archive Data
- Data Access Surges
- Activity Outside Business Hours
- Failed Activity Trend
- Logons by Multiple Users from Single **Endpoint**

Configure alerts to automatically notify designated security staff of a potential incident, based on either a triggering event or a defined threshold.



() Predefined alerts

- User Account Locked Out
- User Added to AD Administrative Group
- User Added to Windows Server Administrative Group
- Unrestricted Access to the File Share



Custom alerts based on either a triggering event or a defined threshold



Incident Analysis

Investigate anomalous activity and events that are detected.

| How to Implement Control | Applicable Netwrix Auditor Features |
|---|--|
| Perform forensic analysis of the potential security incidents to understand their full scope and impact, and determine appropriate response measures. | Interactive Search Who and Where filters Windows Server User Activity reports Replay of user activity video recordings Behavior Anomalies Discovery Detailed trail of user anomalous behavior |
| Adjust alerts settings or create new alerts based on findings from the security incident analysis. | Custom alerts based on Interactive Search |

Incident Mitigation

Respond quickly to a security incident to mitigate its effects.

| How to Implement Control | Applicable Netwrix Auditor Features |
|--|---|
| Automate the triggering of incident response procedures upon detection of suspicious activity to ensure timely response and remediation. | Netwrix Auditor Add-On for ServiceNow Incident Management |
| Quickly revert unauthorized changes to accounts and configuration. | Predefined change reports • Before and after details 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 Auditor reports on configuration risk factors common in Microsoft-centric IT infrastructures and estimates their impact in your environment.

Risk Assessment

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

How to Implement Control

Examine the configuration of your information systems using common security best practices and identify risks that may require mitigation in the following areas:

- Account management
- Data governance
- Security permissions

Applicable Netwrix Auditor Features



IT Risk Assessment reports

- IT Risk Assessment: Users and Computers
- IT Risk Assessment: Data
- IT Risk Assessment: Permissions

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 Auditor 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

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.

Applicable Netwrix Auditor Features



Behavior Anomalies Discovery

- List of users with the most behavior anomalies
- Detailed trail of each user's anomalous actions

Configure alerts to automatically notify designated security staff of a potential attack or unauthorized activity.



(Predefined alerts

- User Account Locked Out
- User Added to AD Administrative Group
- User Added to Windows Server Administrative Group
- Unrestricted Access to the File Share



Custom alerts based on either a triggering event or a defined threshold



About Netwrix

Netwrix Corporation was first to introduce visibility and governance platform for on-premises, hybrid and cloud IT environments. More than 160,000 IT departments worldwide rely on Netwrix to detect insider threats on premises and in the cloud, pass compliance audits with less expense and increase productivity of IT security and operations teams. Founded in 2006, Netwrix has earned more than 100 industry awards and been named to both the Inc. 5000 and Deloitte Technology Fast 500 lists of the fastest growing companies in the U.S.

Netwrix Auditor is a visibility platform for user behavior analysis and risk mitigation that enables control over changes, configurations and access in hybrid IT environments to protect data regardless of its location. The platform provides security intelligence to identify security holes, detect anomalies in user behavior and investigate threat patterns in time to prevent real damage.

Netwrix Auditor includes applications for Active Directory, Azure AD, Exchange, Office 365, Windows file servers, EMC storage devices, NetApp filer appliances, SharePoint, Oracle Database, SQL Server, VMware and Windows Server. Empowered with a RESTful API and user activity video recording, the platform delivers visibility and control across all of your on-premises or cloud-based IT systems in a unified way.

For more information, visit www.netwrix.com

If you want to evaluate Netwrix Auditor in your environment, choose one of the deployment options below. To see Netwrix Auditor in action without having to download and install it, visit <u>netwrix.com/testdrive</u>.



On-Premises Deployment

Download a Free 20-day trial

netwrix.com/go/freetrial



Virtual Appliance

Download our virtual machine image

netwrix.com/go/appliance



Cloud Deployment

Deploy Netwrix Auditor in the cloud

netwrix.com/go/cloud

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