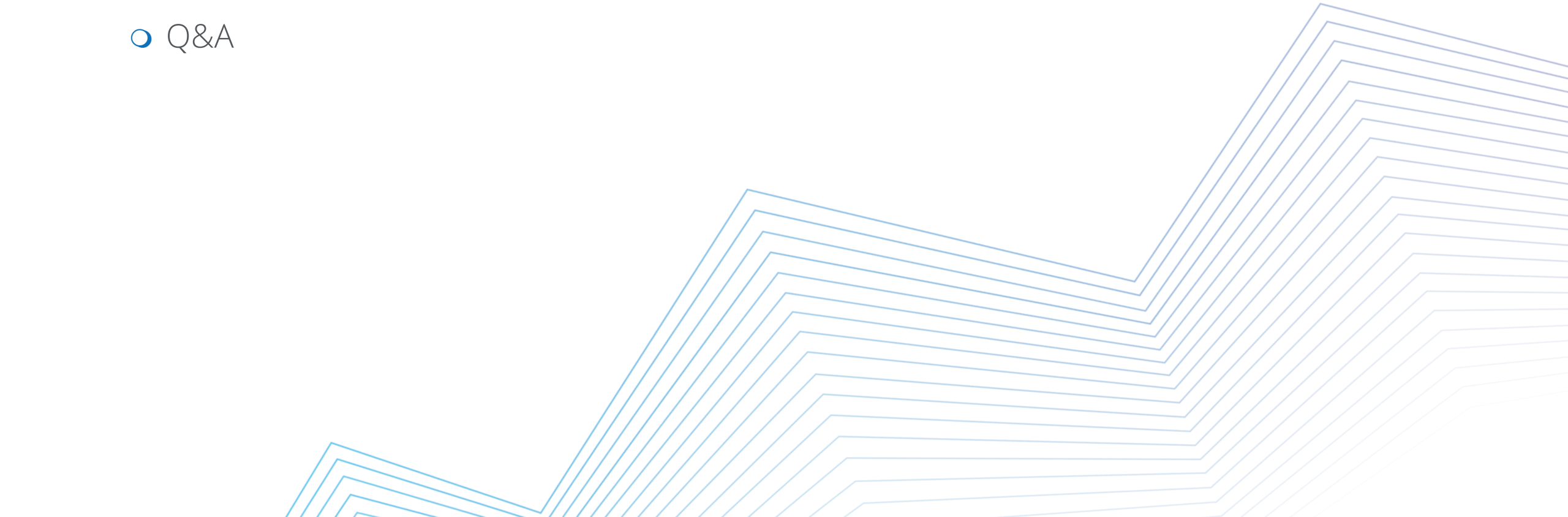
netwrix

Netwrix Auditor

Visibility platform for user behavior analysis
and risk mitigation

Agenda

- Product Overview
- Product Demonstration
- Q&A



About Netwrix Auditor

Netwrix Auditor

A **visibility** platform for **user behavior analysis** and **risk mitigation** that enables control over **changes**, **configurations**, and **access** in hybrid IT environments.

It provides security **intelligence** to identify security holes, **detect** anomalies in user behavior and **investigate** threat patterns in time to **prevent** real damage.

Netwrix Auditor Evolution

Standalone Change Auditing Tools

- Predefined Change Auditing Reports

Unified Platform for Change, Configuration and Access Auditing

- Compliance Reports
- Interactive Search
- Dashboards

Visibility and Governance Platform for Hybrid Cloud Security

- Virtual and Cloud Deployment
- RESTful API
- Add-on Store
- File Analysis

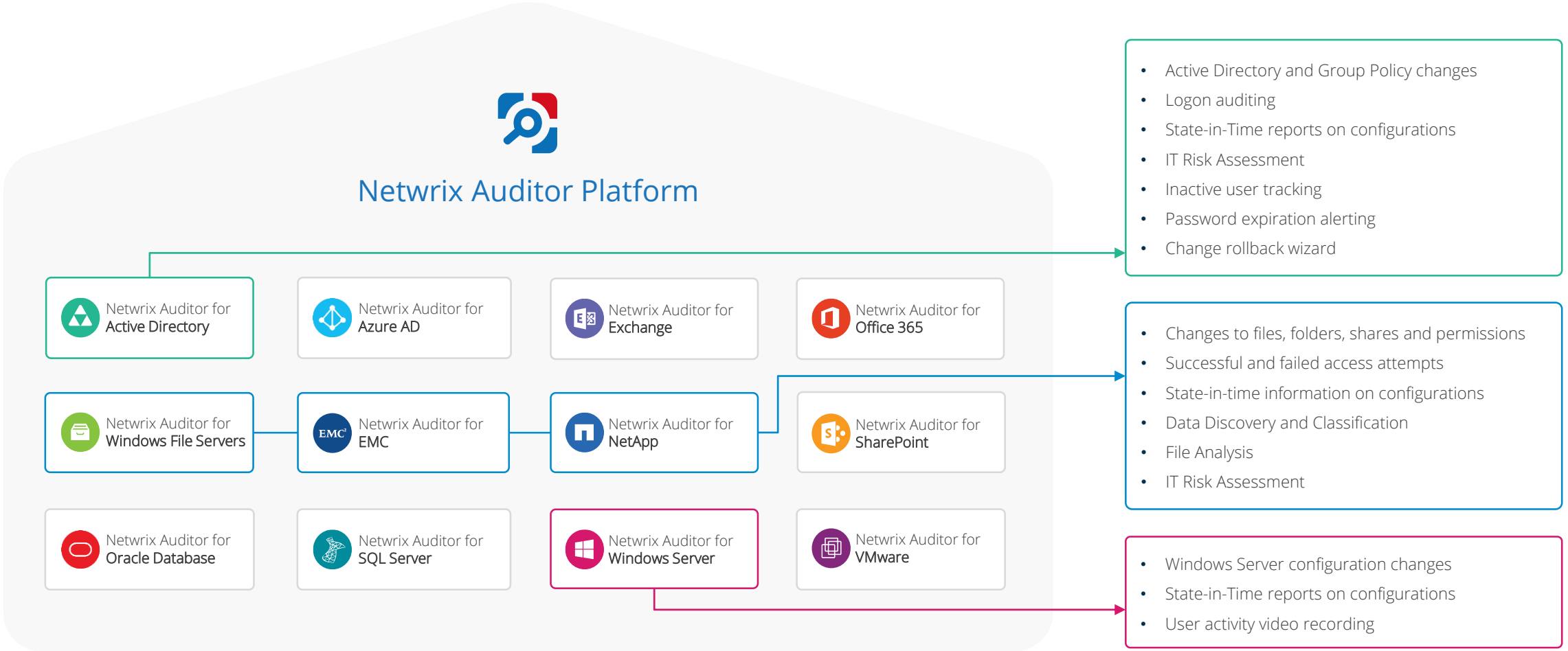
Visibility Platform for User Behavior Analysis and Risk Mitigation

- Behavior Anomaly Discovery
- Risk Assessment
- User Behavior and Blind Spot Analysis
- Alerts on Threat Patterns

- Data Discovery & Classification Edition

2008 — 2013 — 2016 — 2017 — 2018

Netwrix Auditor Unified Platform



Netwrix Auditor – Data Discovery and Classification Edition

Data Discovery and Classification

empowers risk, compliance and data security officers and IT security pros

to **prioritize** their efforts and **secure** data in accordance with its **value** or **sensitivity**.

It enables them to **mitigate** the risk of PII, PHI, PCI and IP being stored outside dedicated locations

and apply controls and policies **consistently** and **accurately**,

so their organization can ensure both data **security** and regulatory **compliance**.

Data Discovery and Classification Benefits

Prioritize your data protection efforts

Identify the shares with the highest concentrations of sensitive data and detect any PII, PCI, PHI or IP that surfaces outside of a secure location, so you can respond appropriately.

Minimize the risk of a data breach

Verify that access rights to sensitive data are aligned with corporate policies and applicable regulations, and involve data owners in determining who should be able to access it.

Detect threats to your sensitive data

Get the full context around activity with protected information and ensure that user actions that threaten this data, such as improper permissions changes, are captured and reported on.

Prove your security controls are effective

Demonstrate to auditors that you know exactly where protected data resides and quickly provide evidence that only eligible employees can read, modify, share or delete your critical files.

Accommodate new security regulations

Easily discover the data that GDPR and other compliance regulations require you to protect, and establish a solid foundation for complying with future data security requirements.

Determine the severity of a data breach

Analyze how much data a malefactor had access to and which pieces of data were actually viewed, modified or deleted, so you can notify all affected parties.

What Makes Netwrix Auditor Unique

- Truly **integrated** platform
- **Noise-free** intelligence
- **Non-intrusive** architecture
- **Accurate** data classification
- API-enabled ecosystem **integrations**
- On-premises, virtual and cloud **deployment** options
- **Cost-effective** two-tiered storage (file-based + SQL database)

Netwrix Customers

Financial

ING
Credit Suisse
fiserv.
Allianz
Amica
Berkshire Hathaway Inc.
KPMG
John Hancock Financial Services
FXCM NYSE
Zurich
Standard Chartered
Barings
United Bank

Healthcare & Pharmaceutical

MagnaCare
Vertex
Blue Cross of Idaho
Massachusetts General Hospital
WebMD
American Cancer Society
R1
Dignity Health
Yale-New Haven Hospital
Mallinckrodt Pharmaceuticals
Valeant Pharmaceuticals International

Federal, State, Local, Government

U.S. Army
Make a difference Maine State Government
Columbia University
NYC DOT
NIH
Berkeley Lab
West Point The United States Military Academy
BNA
University of Cambridge
massport
NASA
National Weather Service
DC.gov

Industrial/Technology/Other

Chevron
Hyundai
Mitsubishi
Cisco
IBM
L'Oréal
CGI
L3
Bell
NBC Universal
Thomson Reuters
Walt Disney Pictures
yp
iGATE Speed.Agility.Imagination
PCC
virgin atlantic
Houston Airport System
Hitachi
Black&Decker
PepsiCo
Petrobras
Lockheed Martin
Whirlpool
United Nations International Drainage Commission
verizon
Electrolux
CVS Caremark
FlowersFoods

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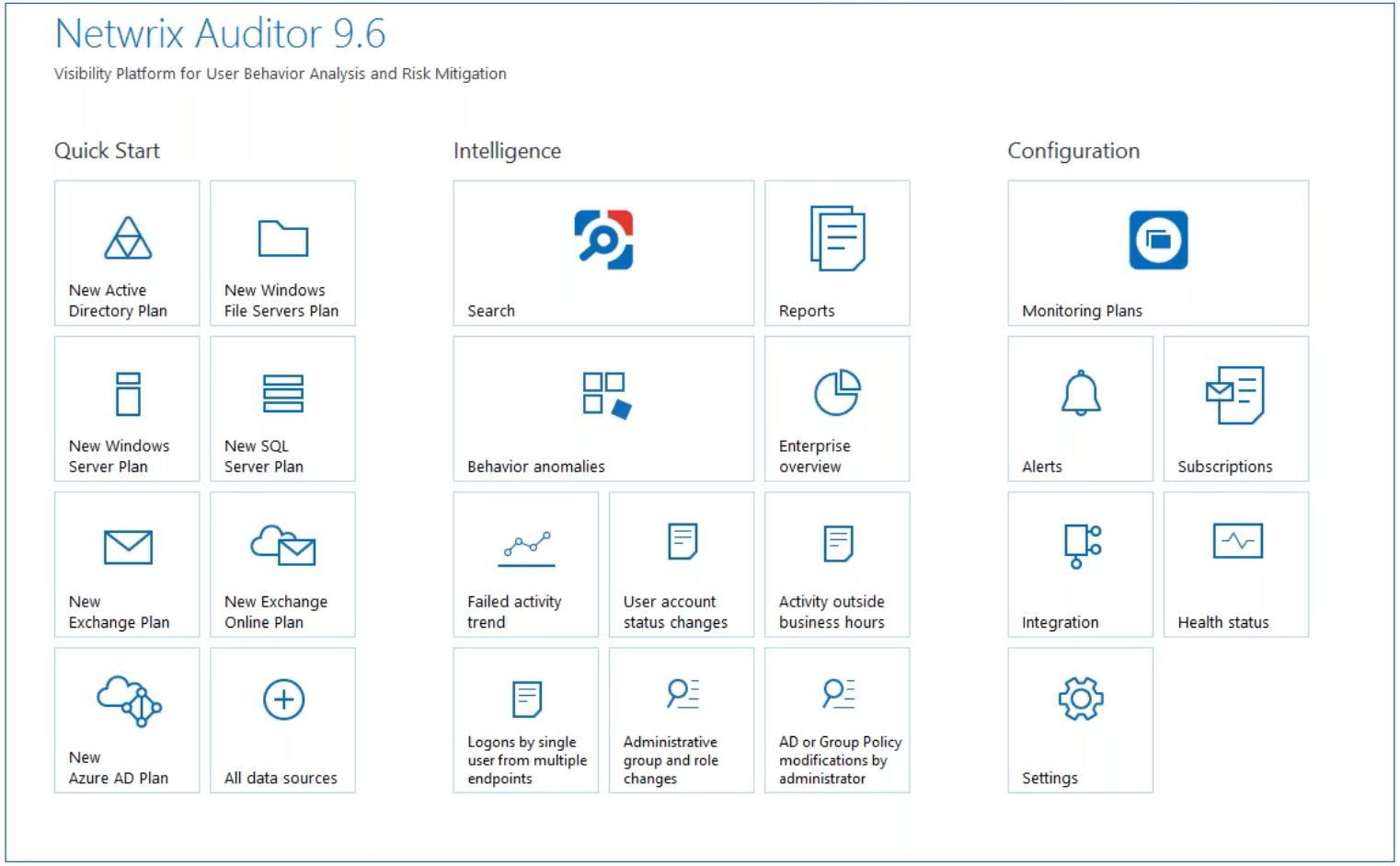
Netwrix Auditor

Demonstration

Netwrix Auditor Console



IT Risk Assessment

IT Risk Assessment: Overview

Gives you a bird's eye view of risks in your organization. Control and mitigate your IT risks by continuously monitoring and addressing weak points in your environment, such as chaotically organized privilege structure, "shadow" user and computer accounts, and improper content on your file shares.

Total risk level for Permissions: Acceptable

Risk	Level
User accounts with administrative privileges	Acceptable
Administrative groups	Acceptable
Empty security groups	Acceptable

Total risk level for Data: Take action

Risk	Level
Shared folders accessible by Everyone	Take action
File names containing sensitive data	Take action
Potentially harmful files on file shares	Take action
Direct permissions on files and folders	Pay attention

Total risk level for Users and Computers: Pay attention

Risk	Level
User accounts with Password never expires	Pay attention
User accounts with Password not required	Acceptable
Disabled computer accounts	Acceptable
Inactive user accounts	Acceptable
Inactive computer accounts	Acceptable

Potentially Harmful Files on File Shares

Lists files on your file shares that may be harmful or malicious, such as executables, installers, scripts, and registry keys. These files may be malware, viruses, or inappropriate distributives and should not be stored on shared resources. Use this report to detect potentially harmful files and prevent security threats.

Object Path	Owner	Creation Date
\\FS1\Shared\Accounting\Cryptolocker.msi	BUILTIN\Administrators	9/30/2017 4:32:33 AM
\\FS1\Shared\Accounting\Virus.exe	BUILTIN\Administrators	10/10/2017 5:50:34 AM
\\FS1\Shared\Finance2017\Report.docx.cmd	BUILTIN\Administrators	8/16/2017 6:59:16 AM
\\FS1\Shared\IT\installers\BitTorrent.exe	BUILTIN\Administrators	7/7/2017 9:12:23 AM
\\FS1\Shared\IT\installers\BitCoin Miner.exe	BUILTIN\Administrators	7/7/2017 6:42:08 AM
\\FS1\Shared\Managers\3xdhdnlcr.reg	BUILTIN\Administrators	7/7/2017 7:55:54 AM
\\FS1\Shared\Managers\picture.jpg.jar	BUILTIN\Administrators	7/7/2017 2:06:07 AM
\\FS1\Shared\ProductManagement\Q4plans.xlsx.bat	BUILTIN\Administrators	9/27/2017 6:37:38 AM

Alerts on Threat Patterns

Netwrix Auditor Alert

Possible ransomware activity

The alert was triggered by 150 activity records being captured within 60 seconds. The most recent of those activity records is shown below. To review the full activity trail, use the interactive search in Netwrix Auditor.

Who:	ENTERPRISE\J.Carter
Action:	Modified
Object type:	File
What:	\\fs3.enterprise.com\Documents\Contractors\payroll2017.docx
When:	4/28/2017 11:35:17 AM
Where:	fs3.enterprise.com
Workstation:	mkt025.enterprise.com
Data source:	File Servers
Monitoring plan:	Enterprise Data Visibility Plan
Details:	Size changed from "807936 bytes" to "831488 bytes"

This message was sent by Netwrix Auditor from **au-srv-fin.enterprise.com.**

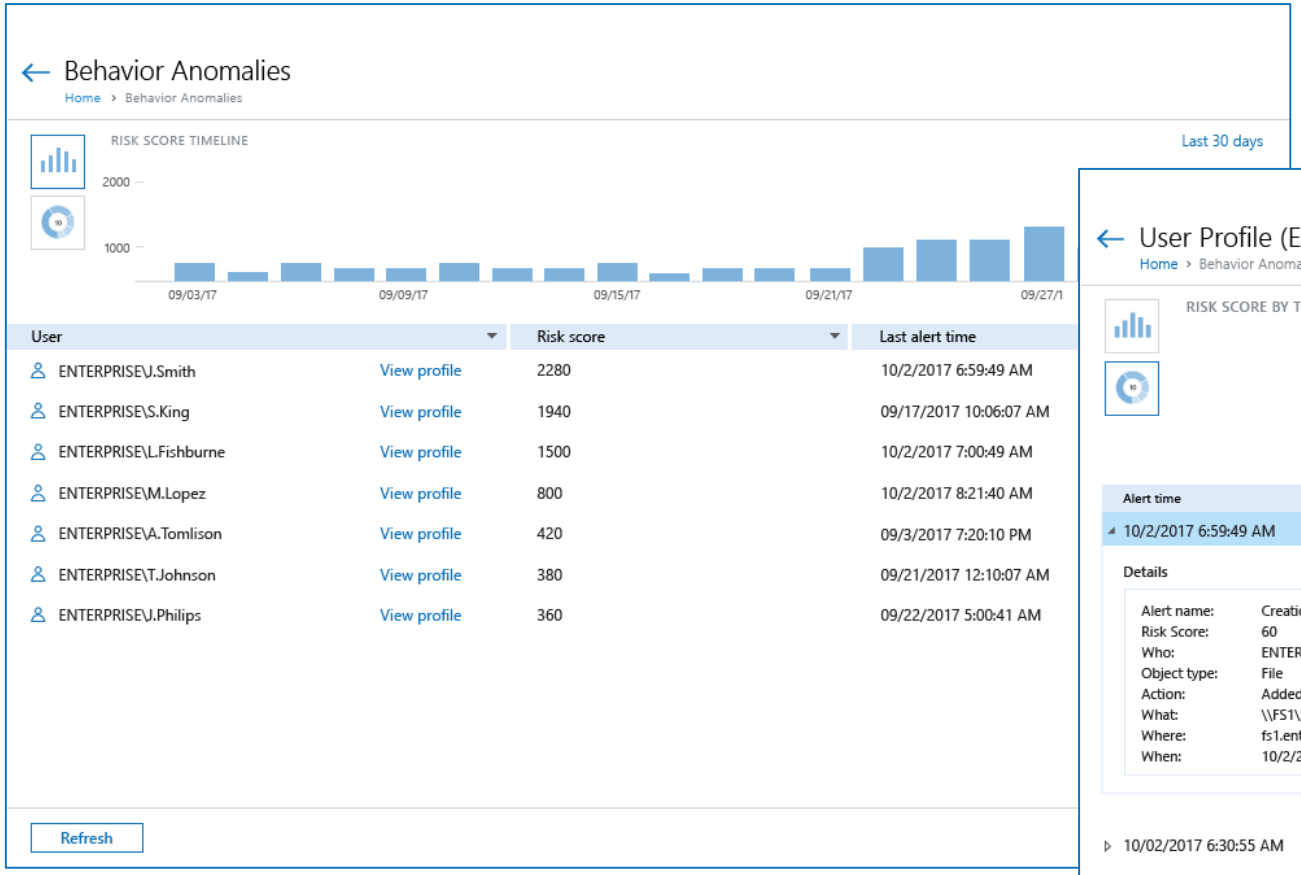
Netwrix Auditor Alert

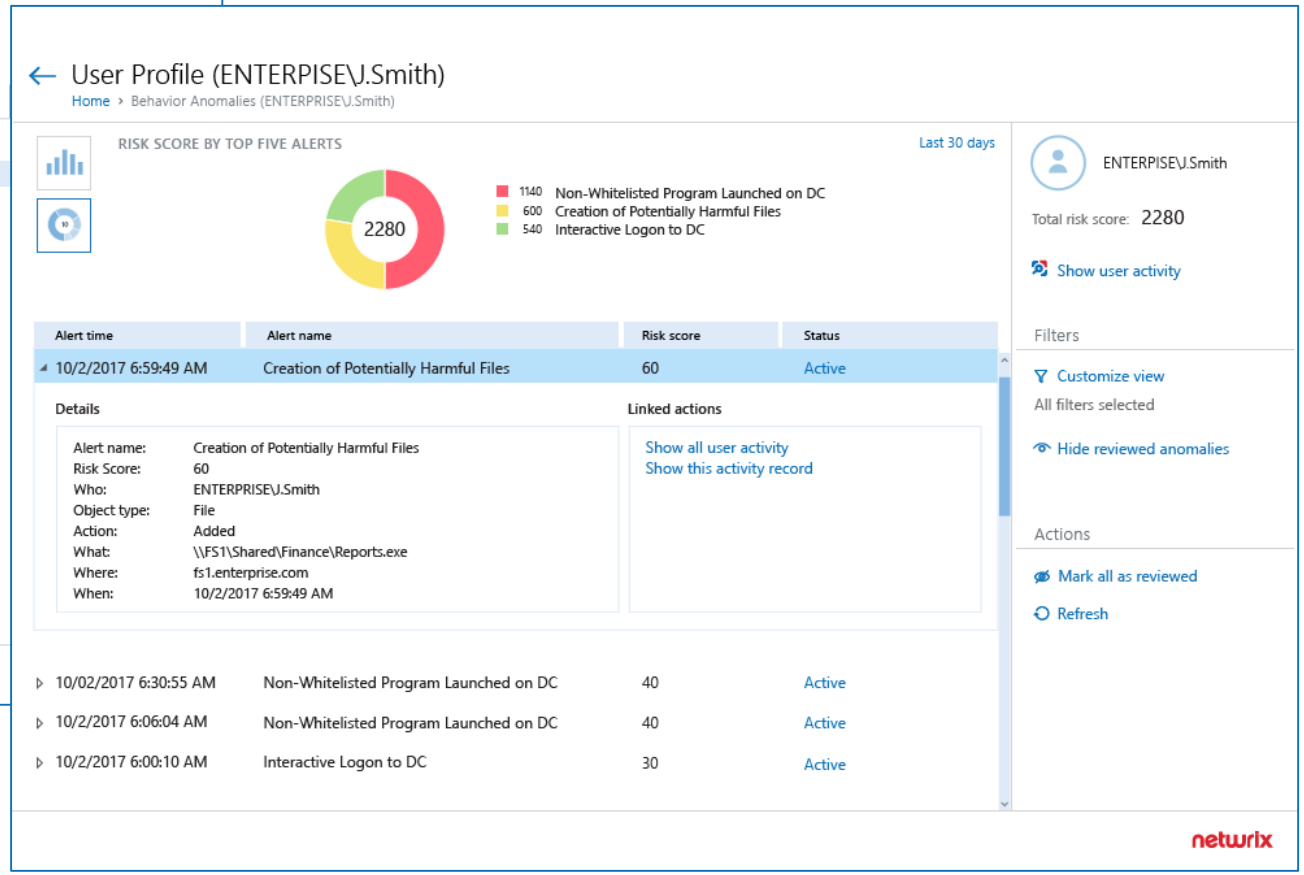
Possible DBA privilege abuse

Who:	ENTERPRISE\J.Smith
Action:	Removed
Object type:	Table
What:	Databases\Customers\Tables\dbo.Cardholders
When:	5/3/2017 7:19:29 AM
Where:	sql2.enterprise.com
Workstation:	mkt023.enterprise.com
Data source:	SQL Server
Monitoring plan:	Enterprise Database Visibility Plan

This message was sent by Netwrix Auditor from **au-srv-fin.enterprise.com.**

Behavior Anomaly Discovery

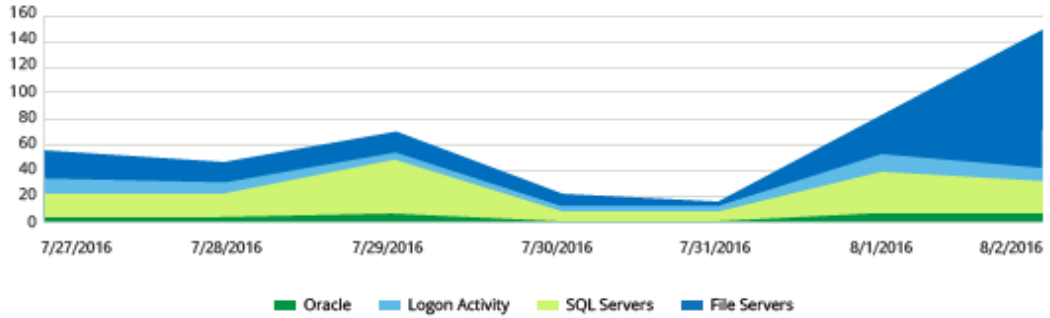




User Behavior and Blind Spots Analysis

Failed Activity Trend

Shows consolidated statistics on failed actions, including failed read attempts, failed modification attempts, failed logons, etc. The report also lists the users with most failed attempts.



Date: 8/2/2016 (Attempts: 145)

Who	Attempts
ENTERPRISE\D.Harris	78
ENTERPRISE\G.Brown	7
ENTERPRISE\T.Simpson	5

Activity Outside Business Hours

Shows users who performed any actions outside their business hours. Use this report to detect suspicious user activity.

User Name	Actions
ENTERPRISE\D.Harris	663
ENTERPRISE\J.Carter	44
ENTERPRISE\T.Simpson	21
ENTERPRISE\A.Watson	15
ENTERPRISE\G.Brown	8

User Behavior and Blind Spots Analysis

Excessive Access Permissions

Shows accounts with permissions for infrequently accessed files and folders. Use this report for spotting unnecessary permissions and preventing data leaks. Track permissions assigned to accounts directly or by group membership.

Object: \\fs1\Accounting (Permissions: Different from parent)

Account	Permissions	Means Granted	Times Accessed
ENTERPRISE\N.Key	Full Control	Directly	0
ENTERPRISE\T.Simpson	Full Control	Group	0
ENTERPRISE\P.Anderson	Full Control	Group	0
ENTERPRISE\K.Miller	Write and list folder content	Directly	0
ENTERPRISE\T.Allen	Read (Execute, List folder content)	Group	0

Logons by Single User from Multiple Endpoints

Shows users who logged on from several endpoints within a short period of time. Such occurrences may indicate that the account's password was stolen or compromised. Use this report to detect suspicious user activity and prevent data breaches.

User: ENTERPRISE\J.Carter (First Attempt: 7/27/2016 2:02:26 PM)

Endpoint	Logon Attempts
172.17.6.36	2
ENTWKS0376	6

User: ENTERPRISE\D.Harris (First Attempt: 7/26/2016 5:13:16 PM)

Endpoint	Logon Attempts
WST055	12
192.168.1.1	1
ENTWKS0376	1

Data Discovery and Classification

Sensitive Files Count by Source

Shows the number of files that contain specific categories of sensitive data. Clicking the "Categories" or "Source" link narrows your results down to a certain file in this report. Use this report to estimate amount of your sensitive data in each category, plan for data protection measures and control their implementation.

Content source	Categories	Files count
\\fs1\Accounting	GDPR	1300
	PCI DSS	585
\\fs1\Finance	GDPR	715
	HIPAA	250
	PCI DSS	952
\\fs1\HR	GDPR	1500
	HIPAA	1085

Sensitive Files and Folders by Owner

Shows ownership of files and folders that are stored in the specified file share and contain selected categories of sensitive data. Use this report to determine the owners of particular sensitive data.

Owner: ENTERPRISE\E.Anderson

UNC path	Categories
\\fs1\HR\Annual Report	PII
\\fs1\HR\Compensation & Benefits	PII
\\fs1\HR\Exit Interviews	PII

Owner: ENTERPRISE\J.Carter

UNC path	Categories
\\fs1\HR\Training Program	PII
\\fs1\HR\New Employees\Europe	GDPR

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\\fs1\HR\Exit Interviews	PII

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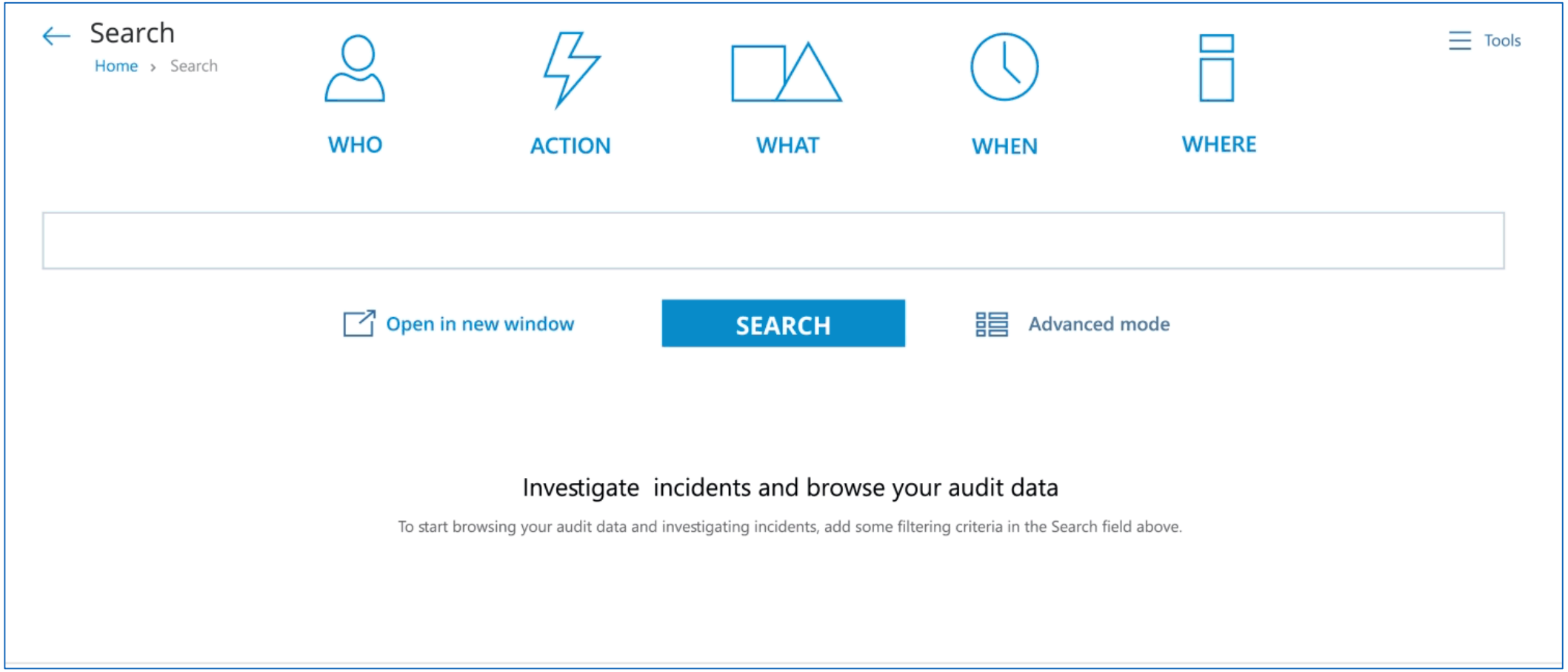
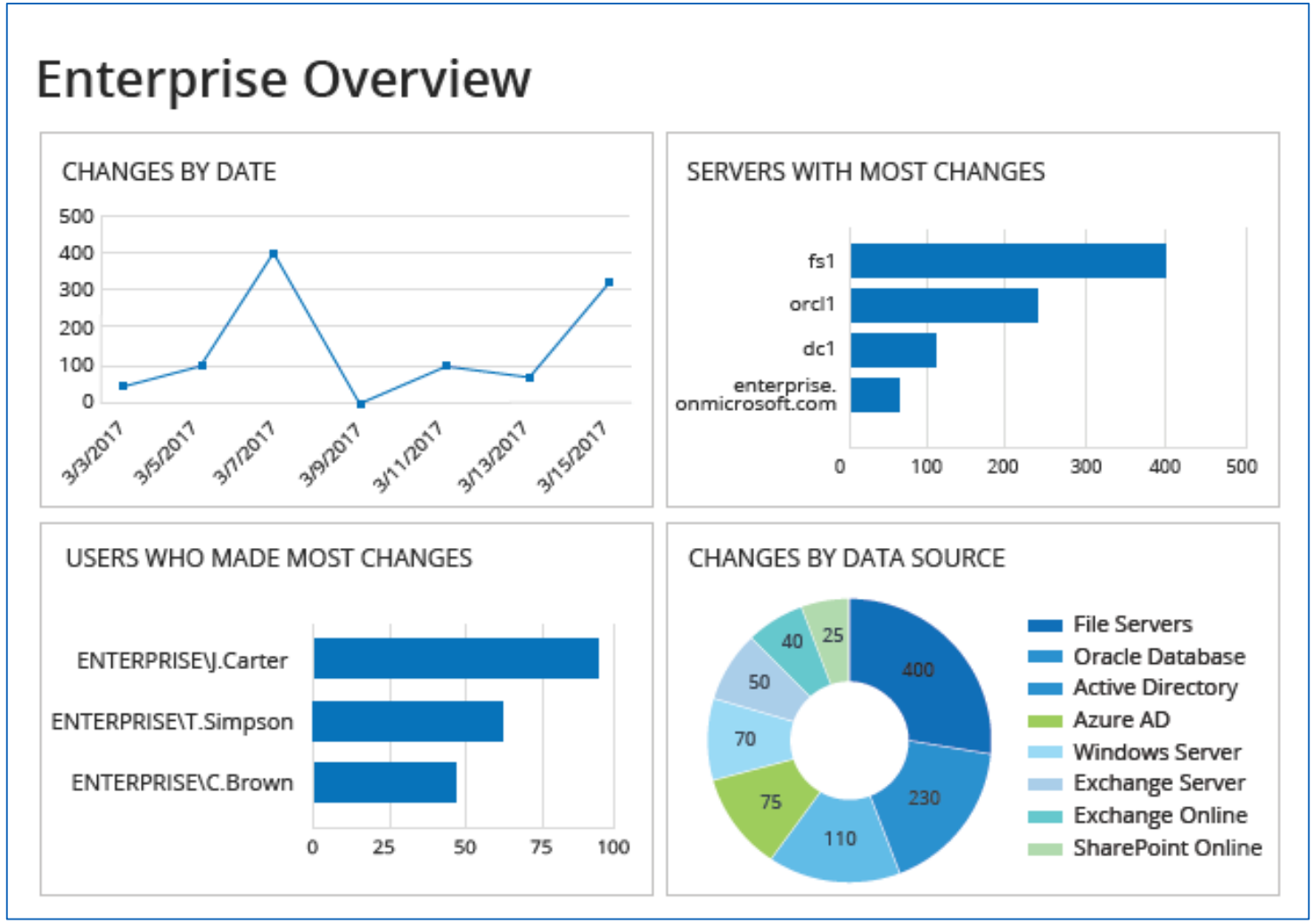
UNC path	Categories
\\fs1\HR\Training Program	PII
\\fs1\HR\New Employees\Europe	GDPR

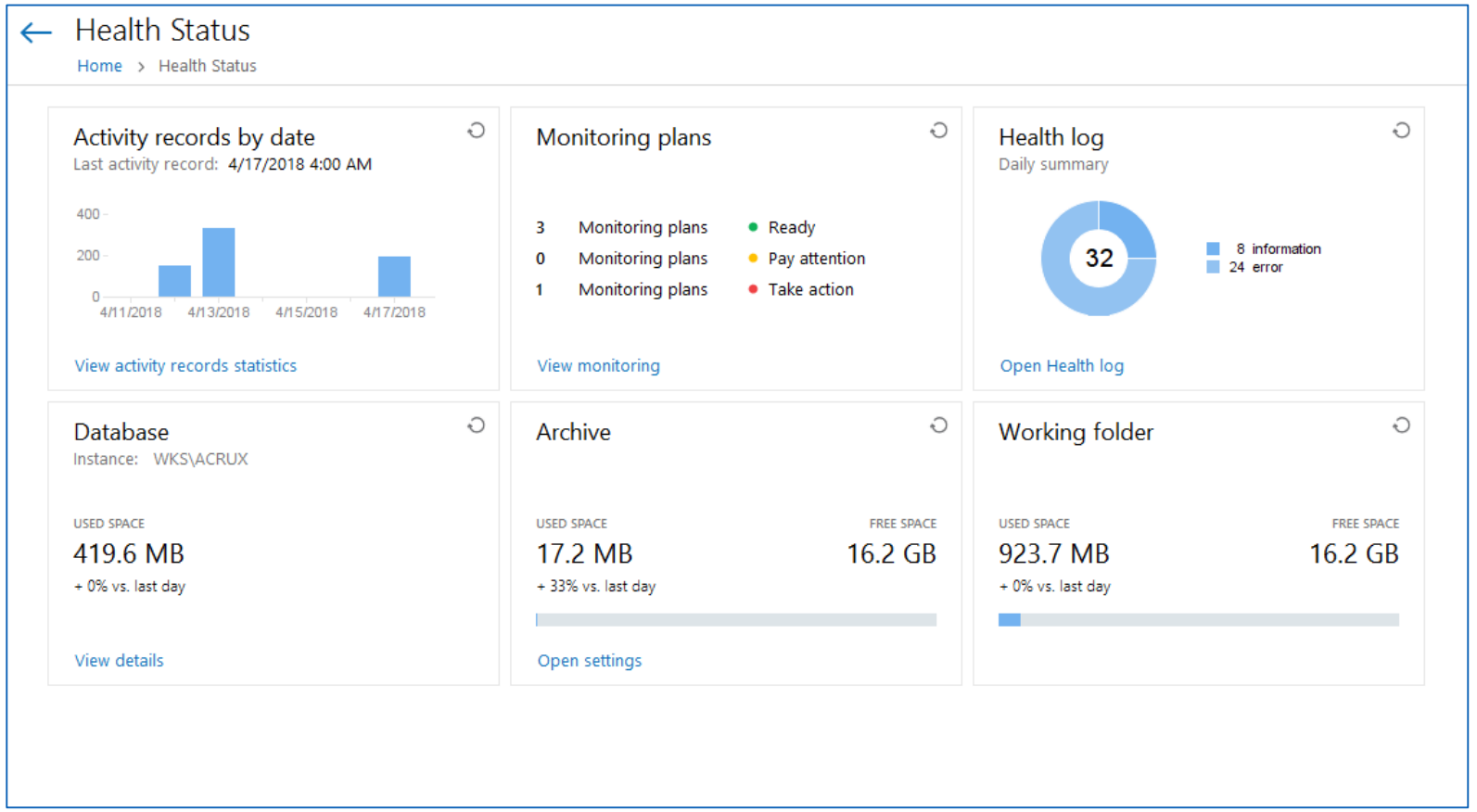
Interactive Search



Enterprise Overview Dashboards



Health Status Dashboard



File Analysis

Potential Data Owners by Folder

Shows users who frequently access files in a given folder. Use this report to identify factual data owners and analyze usage patterns.

Folder: \\fs1\Shared\Finance
Owner: ENTERPISE\S.Coleman

Who	Changes	Reads
ENTERPRISE\S.Coleman	88	178
ENTERPRISE\A.Dowson	43	118
ENTERPRISE\E.Swift	17	67
ENTERPRISE\E.Robinson	2	41

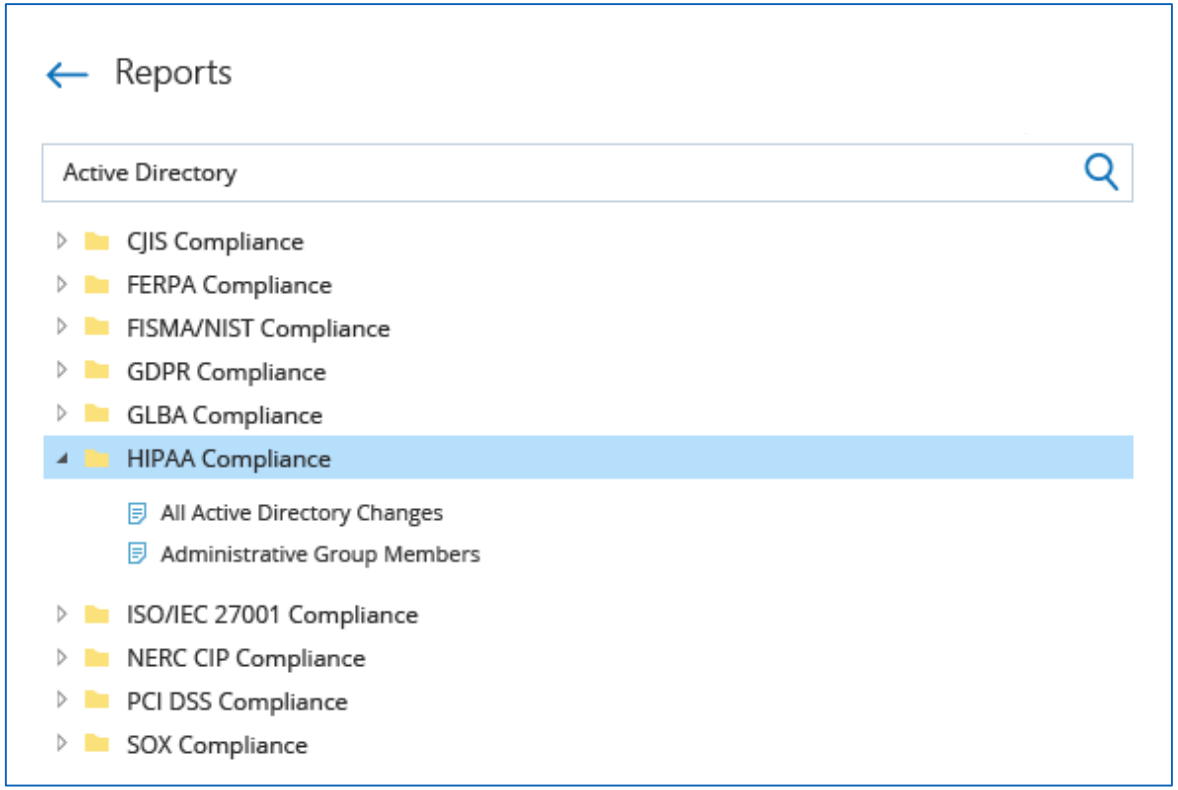
Duplicate Files

Shows files with the same name and size. Use this report for detecting potentially duplicate files that can be safely removed.

Object Name: Strategy2016.pptx (Size: 0.0002 MB)

Object Path	Modification Date
\\fs1\shared\Managers	11/11/2015 2:45:00 PM
\\fs1\shared\Finance	11/09/2015 10:32:11 AM

Out-of-the-box Compliance Reports



Administrative Groups Membership Changes

Shows changes to members of the Domain Admins, Enterprise Admins, Schema Admins, Account Operators and other administrative groups, and affected parent groups.

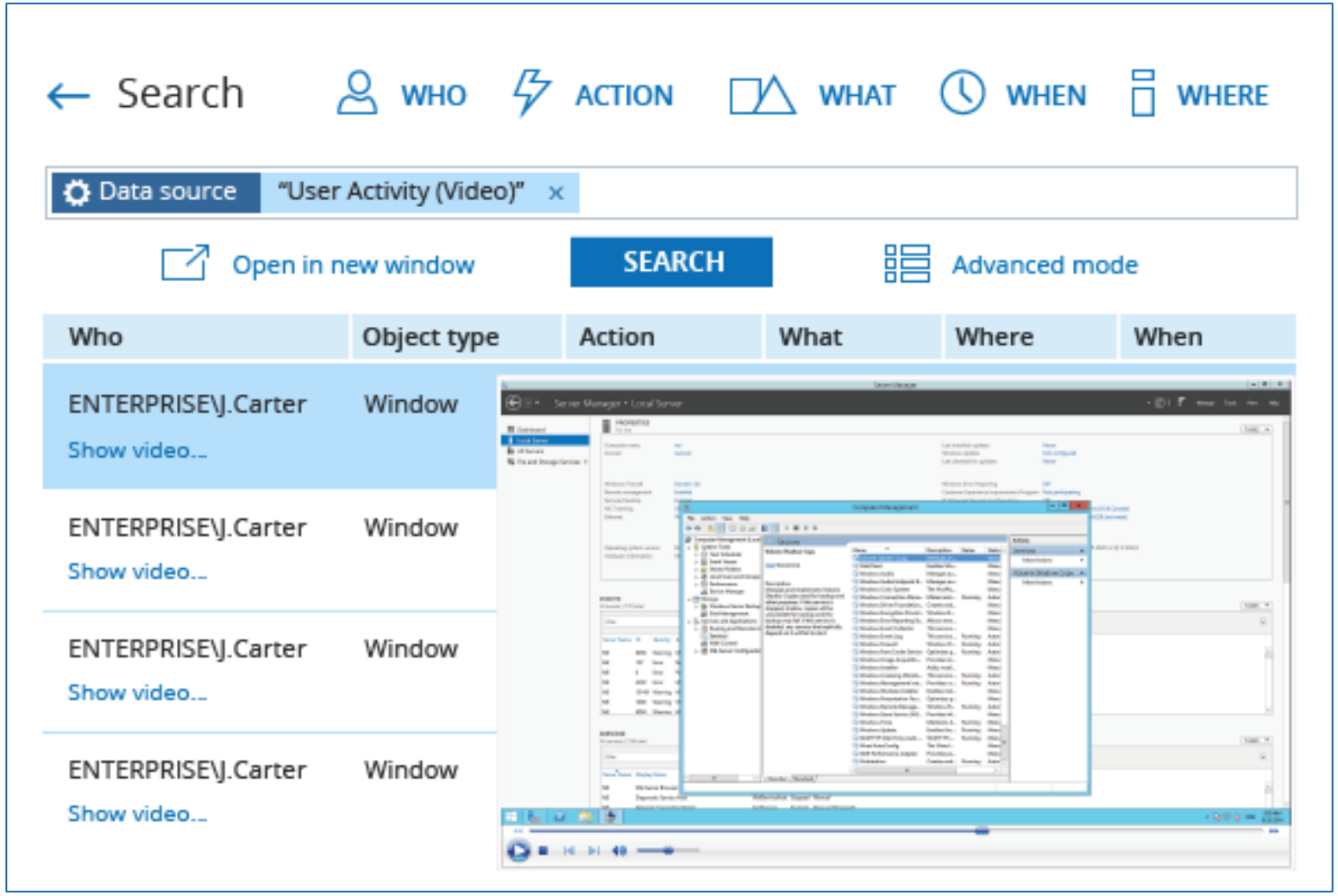
Group name: \Enterprise\Users\Domain Admins

Action	Member	Who	When
Added Where:	\Enterprise\Users\Jack Falcon dc1.enterprise.com	ENTERPRISE\R.Ferrano	8/17/2015 4:03:13 PM
Removed Where:	\Enterprise\Users\John Smith dc1.enterprise.com	ENTERPRISE\R.Ferrano	8/17/2015 6:57:32 PM

Group name: \Enterprise\Users\Schema Admins

Action	Member	Who	When
Added Where:	\Enterprise\Users\Liza Lee dc1.enterprise.com	ENTERPRISE\P.Jackson	8/18/2015 7:07:18 PM

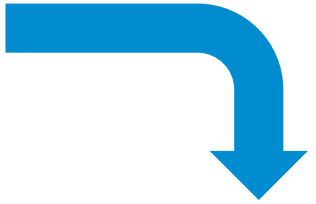
User Activity Video Recording



SIEM Integration

Permissions Change:
Original Security Descriptor: D:PAI(A;OICI;FA;;;S-1-5-21-210521867-2639090965-1213260628-1106)(A;OICI;FA;;;BA)(A;OICI;0x1200a9;;;S-1-5-21-210521867-2639090965-1213260628-1143)(A;OICI;FA;;;SY)(A;OICI;FA;;;S-1-5-21-210521867-2639090965-1213260628-1138)

New Security Descriptor:
D:PARAI(A;OICI;FA;;;S-1-5-21-210521867-2639090965-1213260628-1106)(A;OICI;FA;;;BA)(A;OICI;0x1200a9;;;S-1-5-21-210521867-2639090965-1213260628-1143)(A;OICI;FA;;;SY)(A;OICI;FA;;;S-1-5-21-210521867-2639090965-1213260628-1138)(A;OICI;FA;;;S-1-5-21-210521867-2639090965-1213260628-1174)



Message=The following audit event was detected:
Who: ENTERPRISE\J.Carter
What: \\fs1\shared\Managers
When: 12/25/2015 4:05:49 PM
Where: fs1
Change type: Modified
Object type: Folder
Managed object: FS1
Change details:
Permissions: Added: 'ENTERPRISE\C.Hoffman
(Allow: List folder / read data, Create files / write data, Create folders / append data, Read extended attributes, Write extended attributes, Traverse folder / execute file, Delete subfolders and files, Read attributes, Write attributes, Delete, Read permissions, Change permissions, Take ownership, Synchronize)
Apply onto: This folder, subfolders and files'
Detected by: ny.enterprise.com at 12/25/2015 4:08:16 PM

Useful links

Online TestDrive: experience Netwrix Auditor with no download or installation required

https://www.netwrix.com/browser_demo.html

Live One-to-One Demo: product tour with Netwrix expert

netwrix.com/livedemo

Contact Sales to obtain more information: netwrix.com/contactsales

Webinars: join our upcoming webinars and watch the recorded sessions

- netwrix.com/webinars
- netwrix.com/webinars#featured

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Questions?

Thank You!