

Top 5 Microsoft Entra ID Incidents You Need Visibility Into



Table of Contents

#1: User Account Changes	2
#2: Group Membership Changes	3
#3: Spikes of Failed Logon Activity	4
#4: User-Initiated Password Changes	5
#5: Application Changes	6
About Netwrix Auditor	7



#1: User Account Changes

Because Microsoft Entra ID (formerly Azure AD) is the cornerstone of your hybrid cloud operations, tracking changes to user accounts is essential for timely detection of suspicious activity on your cloud directory service. Netwrix Auditor delivers complete visibility into changes to Microsoft Entra ID (formerly Azure AD) user accounts, including their creation, modification, and deletion and helps answer the following questions

What changes were made to your Microsoft Entra ID (formerly Azure AD) accounts?

Who performed each change?

Where did each change originate from?

Which accounts were successfully synchronized from your on-premises AD?

When was each change made?

User Account Management in Microsoft Entra ID

Shows changes to Azure AD user accounts, including their creation, modification, and deletion.

Action	What	Who	When
■ Added	A.Johnson	N.Hamphry@enterprise.onmicrosoft.com	9/14/2016 3:06:55 AM
Where: enterprise.onmicrosoft.com Account Enabled: "True" Display Name: "A.Johnson" First Name: "Alex" Surname: "Johnson" Mail Nickname: "A.Johnson " Password Policies: "None" User Principal Name: "A.Johnson@enterprise.onmicrosoft.com" User Type: "Member" Origin: Microsoft Entra ID (formerly Azure AD)			
■ Modified	P.Anderson	J.Carter@enterprise.onmicrosoft.com	9/14/2016 10:32:23 AM
Where: enterprise.onmicrosoft.com Account Enabled changed from "False" to "True" Origin: Microsoft Entra ID (formerly Azure AD)			

#2: Group Membership Changes

Constant control over group membership changes in Microsoft Entra ID (formerly Azure AD) helps ensure that no users are granted unwarranted rights to access your cloud-based applications or to modify or remove sensitive data. Netwrix Auditor tracks every change made to group membership in your Microsoft Entra ID (formerly Azure AD) and provides answers to the following questions:

- **Which Microsoft Entra ID (formerly Azure AD) groups** were modified?
- **Who** was added to or removed from an Microsoft Entra ID (formerly Azure AD) group?
- **Who** made each change?
- **When** was each change made?

Group Membership Changes in Microsoft Entra ID

Shows changes to group membership in Microsoft Entra ID (formerly Azure AD). Use this report to exercise security control over your data.

What	Who	When
Production Where: enterprise.onmicrosoft.com Member: • Added: "Phil Anderson"	T.Simpson@enterprise.onmicrosoft.com	9/13/2016 8:00:50 AM
Self-Service App Access for freelancer Where: enterprise.onmicrosoft.com Member: • Removed: "Danny Hunter"	J.Carter@enterprise.onmicrosoft.com	9/14/2016 3:24:17 PM
Managers Where: enterprise.onmicrosoft.com Member: • Added: "Gordon Smith"	B.Kelly@enterprise.onmicrosoft.com	9/15/2016 9:12:34 AM

#3: Spikes of Failed Logon Activity

Numerous failed logons by a single user can indicate that the account has been compromised or that someone is trying to break into your cloud environment. Netwrix Auditor enables Microsoft Entra ID (formerly Azure AD) access control by reporting on both successful and failed attempts to sign in to your cloud directory service, answering the following questions:

- **Who** performed a failed logon attempt?
- **What user agents and client IP** were used to sign in to your cloud directory?
- **What** was the cause of each logon error?
- **When** was each logon attempted?

Microsoft Entra ID Logon Activity

Shows successful and failed logon attempts in Microsoft Entra ID (formerly Azure AD).
Use this report to analyze user activity and validate compliance

Action	Who	When
■ Failed Logon Where: enterprise.onmicrosoft.com Client IP: 82.96.25.121 User Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) Request Type: OrgIdWsFederation:federation Logon Error: SsoArtifactInvalidOrExpired Origin: Microsoft Entra ID (formerly Azure AD)	T.Simpson@enterprise.onmicrosoft.com	9/9/2016 10:20:15 AM
■ Failed Logon Where: enterprise.onmicrosoft.com Client IP: 82.96.25.121 User Agent: Chrome/52.0.2743.116 Request Type: OrgIdWsFederation:federation Logon Error: SsoArtifactInvalidOrExpired Origin: Microsoft Entra ID (formerly Azure AD)	T.Simpson@enterprise.onmicrosoft.com	9/9/2016 8:50:18 AM

#4: User-Initiated Password Changes

After integrating your on-premises directories with Microsoft Entra ID (formerly Azure AD), you can configure a password reset policy that enables users manage their own passwords. Monitoring user-initiated password changes helps you detect suspiciously frequent modifications and respond quickly to thwart attackers. Netwrix Auditor shows password changes made directly in Azure AD and helps answer the following questions:

- **Who** changed or restored their own passwords in Microsoft Entra ID (formerly Azure AD)?
- **Where** did each change originate from?
- **When** was each change made?

User-Initiated Password Changes in Microsoft Entra ID

Shows Microsoft Entra ID (formerly Azure AD) users who changed or restored their passwords directly in Microsoft Entra ID (formerly Azure AD) without provisioning from on-premises Active Directory.

User Name	Who	When
J.Carter@enterprise.onmicrosoft.com	J.Carter@enterprise.onmicrosoft.com	9/12/2016 8:25:21 AM
Password Changed Origin: Microsoft Entra ID (formerly Azure AD)		
T.Simpson@enterprise.onmicrosoft.com	T.Simpson@enterprise.onmicrosoft.com	9/12/2016 8:47:06 AM
Password Changed Origin: Microsoft Entra ID (formerly Azure AD)		
G.Brown@enterprise.onmicrosoft.com	G.Brown@enterprise.onmicrosoft.com	9/13/2016 11:40:38 AM
Password Changed Origin: Microsoft Entra ID (formerly Azure AD)		

#5: Application Changes

It's critical to protect the applications hosted in your Azure against improper configuration changes and deletion, and to detect the addition of any suspicious applications in a timely manner. Netwrix Auditor shows all application changes in your Azure environment and helps answer the following questions:

- Who** added, modified or deleted an application in your Azure AD environment?
- Were any unapproved applications added** to your cloud service?
- Is a particular application available** to other tenants?
- When** was each change made?

All Azure AD Activity by Object Type

Shows all changes made to Azure AD objects (creation, modification, and deletion), as well as successful and failed logon attempts, grouped by object type.

Object Type: Application

Action	What	Who	When
■ Removed	Yahoo Where: enterprise.onmicrosoft.com Origin: Azure AD	T.Simpson@enterprise.onmicrosoft.com	9/12/2016 8:59:27 PM
■ Added	Active Directory for GitHub Enterprise Where: enterprise.onmicrosoft.com Address Type: "Reply" App Id: "71ae3572-7408-47da-8cee-e558d20efcd8" Available To Other Tenants: "False" Display Name: "Active Directory for GitHub Enterprise" Public Client: "True" Origin: Azure AD	J.Carter@enterprise.onmicrosoft.com	9/13/2016 3:51:48 AM




About Netwrix Auditor

Netwrix Auditor is a **visibility and governance platform** that enables control over changes, configurations and access in hybrid cloud IT environments to protect data regardless of its location. The unified platform provides security analytics for detecting anomalies in user behavior and investigating threat patterns before a data breach occurs.

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, Netwrix Auditor provides **endless integration, auditing and reporting capabilities** for security and compliance.

Unlike other vendors, Netwrix focuses exclusively on providing complete visibility and governance for hybrid cloud security. The sharp focus enables us to offer much more robust functionality than legacy change auditing solutions. Netwrix Auditor has been already honored with more than **100 awards** and recognized by almost **160,000 IT departments** worldwide.

Deploy Netwrix Auditor Wherever You Need It

-  Free 20-Day Trial for On-Premises Deployment: netwrix.com/freetrial
-  Free Virtual Appliance for Hyper-V and VMware Hypervisors: netwrix.com/go/appliance
-  Free Cloud Deployment from the AWS, Azure and CenturyLink Marketplaces: netwrix.com/go/cloud



netwrix.com/social

Netwrix Corporation, 300 Spectrum Center Drive, Suite 1100, Irvine, CA 92618, US

Toll-free: 888-638-9749

Int'l: +1 (949) 407-5125

EMEA: +44 (0) 203-318-0261