ManageEngine ADAudit Plus

Azure AD configuration guide



www.adauditplus.com

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1. Introduction

Enforce accountability and enhance security across your Microsoft Azure Active Directory (AD) environment using ManageEngine's UBA-driven change auditing solution, ADAudit Plus. It helps keep track of the changes made to various AD objects, as well as authentication attempts, to ensure compliance with regulatory mandates such as PCI DSS, HIPAA, and the GDPR.

Highlights of auditing Azure AD using ADAudit Plus

- Gain complete visibility into your on-premises, cloud, or hybrid AD environment from a single console.
- Audit and record both failed and successful authentication attempts and analyze authentication patterns across both on-premises and cloud AD environments.
- Protect your organization from various IT security threats by analyzing high-risk activities, such as when a user logs in to a disabled application or tries to sign in using a disabled account.
- Track and report on all changes in a user account's life cycle, including creation, deletion, enabling, disabling, and restoration.
- Audit and alert on every time a user is added or removed from a device.
- Locate and analyze members who are added or removed from AD groups and prevent privilege misuse.
- Meet the required security standards across Azure tenants by keeping a close eye on recently added or removed OneAuth permissions.
- Track and analyze the usage of Azure applications and the failed requests.
- Trigger instant email or SMS notifications every time Azure AD multi-factor authentication (MFA) fails.

This guide takes you through the process of setting up ADAudit Plus to audit an Azure AD environment.

2. Comparing the methods for configuring Azure AD

ADAudit Plus offers two methods to audit your Azure environment. They are:

- Using an Azure AD Premium license.
- Using a Microsoft 365 license.

Category	Azure	Microsoft 365
Geolocation	Possible	Not possible
MFA details	Possible	Not possible
Group-based license change	Possible	Not possible
Application display name	Possible	Possible by using the Azure AD module
Modified properties, along with their new and old values	Possible	Not possible with basic edition of Microsoft 365 E1 licensing
Sign-in risk detection and reporting	Possible	Not possible

Table 1: A detailed comparison of how auditing Azure varies depending on whether you use a Microsoft 365 license or an Azure AD Premium license.

Note: ADAudit Plus strongly recommends the use of an Azure AD Premium license over a Microsoft 365 license to get more features.

3. Configuring Azure AD in ADAudit Plus

3.1. Configuring using Azure AD premium license

To audit your Azure AD environment using an Azure AD Premium license, ADAudit Plus uses the Microsoft Graph API to obtain events from Azure AD.

3.1.1 Privileges required while using Microsoft Graph API

- Application.Read.All
- AuditLog.Read.All
- Directory.Read.All
- IdentityRiskEvent.Read.All
- Group.Read.All
- User.Read.All

3.1.2 Register an application

Register an application in the Azure portal, using these steps:

- 1. Go to the Azure portal, and sign in using your Microsoft account.
- 2. Select Azure Active Directory from the Azure services section.

Azure services	† 🖃 🔳	(i) 📮 🔿
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Recent resources		
Name	Туре	Last Viewed
Pay-As Your Go	Subscription	a week ago
adapazurestoragetest	Storage account	2 weeks ago
(a) adapstmage	Resource group	3 weeks ago
🧔 azurefilesync	Storage Sync Service	3 weeks ago
Navigate		
		-

3. Go to Manage > App registrations > New registrations to open the Register an application window.

	Microsoft Azure	(P. Search resources, services, and docs (G+/)	
Ноп	ne > zohoadapazure		
	zohoadapazure	App registrations 🖉	
0	Overview	* 🕂 New registration 🔀 Endpoints 🖉 Troubleshooting 🛓 Download 🐻 Preview features 🛇 (Sot feedback?
*	Gett <mark>i</mark> ng started	 Starting June 30th. 2020 we will no longer add any new features to Azure Active Directory Authentication Library (i 	ADAL) and Azure AD Graph. We will continu
	Preview hub	will no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. Learn more
×	Diagnose and solve problems		
Man	age	All applications	
	Users	Start typing a name or Application ID to filter these results.	
23	Groups	Display name Apj	plication (client) ID
1	External Identities	Reporting API AzureAD 166	i30a89-debd-4ade-99c0-ab29b9705d1:
4	Roles and administrators	e4b	cbb27-72ab-499e-aa0c-a6b3006e0cbc
	Administrative units	TestAppMgmt Name Changed d45	s42e9-d711-4299-b147-3b38cd012fd1
щ.	Enterprise applications	TE test1 Ted	J71d15-088c-4db1-b72e-1223d08971c1
	Devices	ADAudit Plus Application 5c0	1118f-c384-43d3-9efd-520c68a19af8
B	App registrations	AD/AuditPlus III Change Application Test	85b3b-e910-4d39-818d-4ea698a84bb9
3	Identity Governance	TestApplication (19)	68195-7143-4422-9ff7-64ce0fb4cd14
13	Application proxy	ADauditPlus New Application. d52	6c44d-e789-4cce-b351-d26149b5b1fe
4	Licenses	zo zohoazureadap 919	1e4109-1262-4932-926b-418a830d6aaf

- 4. Enter the application name, for example, ADAudit Plus Application.
- 5. Ensure that Accounts in this organizational directory only (zohoadapazure only Single tenant) is selected under Supported account types.

= Microsoft Azure	𝒫 Search resources, services, and docs (G+/)			
Home > zohoadapazure >				
Register an application				
* Name				
The user-facing display name for this a	pplication (this can be changed later).			
ADAudit Plus application	✓			
Supported account types				
Who can use this application or access	this API?			
 Accounts in this organizational di 	ectory only (zohoadapazure only - Single tenant)			
 Accounts in any organizational direction 	ectory (Any Azure AD directory - Multitenant)			
Accounts in any organizational di	ectory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)			
 Personal Microsoft accounts only 				
Help me choose				
Redirect URI (optional)				
We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.				
	a a https://myapp.com/auth			

6. Click Register.

3.1.3 Grant minimum privileges required for Microsoft Graph API

To grant the necessary privileges using Microsoft Graph API:

- 1. Go to the Azure portal, and sign in using your Microsoft account.
- 2. Select Azure Active Directory from the Azure services section.

Azure services				60		
Create e Azure Active Acture A Clieate e Cliectory Domain	Cost Management	Subscriptions Storage	Activity log	Resource groups	Virtual machines	More services
Recent resources						
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Pay-As-You-Go		Subscription		5	week ago	
adapazurestoragetest		Storage account		2	weeks ago	
(*) adapstorage		Resource group		3	weeks ago	
🔕 azurefijesyne		Storage Sync Service		3	wooks ago	
Navigate						

3. Go to Manage > App registrations. Select your application under Owned applications.

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X Diagnose and solve problems Manage	All applications	
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🚨 Groups	Display name	Application (client) IE
External Identities	RA Reporting API AzureAD	16630a89-debd-4ade
🍒 Roles and administrators	RA Reporting API	e4bcbb27-72ab-499e
Administrative units	TestAppMgmt Name Changed	d45a42e9-d711-4299
Enterprise applications	те test1	1ed71d15-088c-4db1
Devices	AP ADAudit Plus Application	5c01118f-c384-43d3-!
App registrations	AU ADAuditPlus UI Change Application Test	cf385b3b-e910-4d39-
Identity Governance	TestApplication	f1968195-7143-4422-
Application proxy	AN ADauditPlus New Application	d526c44d-e789-4cce-
Licenses	zo zohoazureadap	919e4109-1262-4932-
Azure AD Connect	TEST Test	6bf8f0f0-0fa7-4494-8;

4. Go to Manage > API permissions and select + Add a permission.

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18 44	Overview Quickstart	This application is using Azure AD G application to use Microsoft Graph /	iraph API, which API instead of A	is on a deprecation path. Starting June 30th, 2020 we will no lo zure AD Graph API to access Azure Active Directory resources.	onger add any n Learn more		
Mar E	Integration assistant Preview nage Branding Authentication	egration assistant Preview Configured permissions e Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. T all the permissions the application needs. Learn more about permissions and consent theorematication Add a permission					
•	Certificates & secrets	API / Permissions name	Туре	Description	Admin cons		
- 111	Token configuration	→ Azure Active Directory Graph (1)					
⇒	API permissions	Directory.Read.All	Application	Read directory data	Yes		
	Expose an API	✓ Microsoft Graph (3)					
-	Owners	AuditLog.Read.All	Application	Read all audit log data	Yes		
	Roles and administrators Preview	Directory.Read.All	Application	Read directory data	Yes		
0	Manifest	User.Read	Delegated	Sign in and read user profile	-		



- 5. Select Microsoft Graph. Click Application permissions as the type of permission required.
- 6. From the listing, select the following:
 - Application.Read.All
 - AuditLog.Read.All
 - Directory.Read.All
 - IdentityRiskEvent.Read.All
 - Group.Read.All
 - User.Read.All

Request API permissions ×					
< All APIs					
> APIConnectors					
✓ Application (1)					
Application.Read.All ① Read all applications	Yes				
Application.ReadWrite.All ① Read and write all applications	Yes				
Application.ReadWrite.OwnedBy ① Manage apps that this app creates or owns	Yes				
> AppRoleAssignment					
> ApprovalRequest					
✓ AuditLog (1)					
AuditLog.Read.All ① Read all audit log data	Yes				
> BitlockerKey					
×					
Add permissions Discard					

- 7. Click Add permissions.
- 8. Select Grant admin consent for <tenantname >
- 9. Click Yes.

3.1.4 Obtain client ID and client secret

- 1. Go to the Azure portal, and sign in using your Microsoft account.
- 2. Select Azure Active Directory service from the Azure services section.
- 3. Go to Manage > App registrations. Select your application under Owned applications.

Microsoft Azure	,Q Search resources, services, and docs (G+/)	
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zohoadapazure Azure Active Directory	App registrations 👒	
Overview	* + New registration 🕀 Endpoints 🖉 Troubleshooting 🛓 Download 🖼 Preview fe	atures 🛇 Got feedback?
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X Diagnose and solve problems	All applications Owned applications	
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5 Groups	Display name	Application (client) II
External Identities	Reporting API AzureAD	16630a89-debd-4ade
& Roles and administrators	Reporting API	e4bcbb27-72ab-499e
Administrative units	TestAppMgmt Name Changed	d45a42e9-d711-4299
Enterprise applications	re test1	1ed71d15-088c-4db1
Devices	ADAudit Plus Application	5c01118t-c384-43d3-
III, App registrations	ADAuditPlus UI Change Application Test	cf385b3b-e910-4d39-
Identity Governance	r: TestApplication	11968195-7143-4422-
B Application proxy	ADauditPlus New Application	d526c44d-e789-4cce-
Licenses	zo	919e4109-1262-4932
Azure AD Connect	n Test.	6bf8f0f0-0fa7-4494-8

- 4. Go to Manage > Certificates & secrets.
 - Click + New client secret.
 - Enter the **description**.
 - Choose **24 Months** as the expiration date; this is the maximum value that can be used.
 - Click Add.
 - Copy the client secret value (e.g., "14uCILxkHtIVGR3wkCq12341Nd5VtestkkWTyIPrrE=")

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💡 ADAudit Plus appli	:ation Certificates & secrets 🛛 🖈
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 Overview Quickstart 	Credentials enable confidential applications to identify themselves to the authentication service when receiving toke scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credentia
🚀 Integration assistant	Certificates
Manage Branding	Certificates can be used as secrets to prove the application's identity when requesting a token. Also can be referred
Authentication	↓ Upload certificate
📍 Certificates & secrets	Thumbprint Start date Expires
Token configuration	No certificates have been added for this application.
 API permissions Expose an API 	
App roles Preview	Client secrets
👪 Owners	A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as ap
Roles and administrators Pre	- Nou diant socrat
Manifest	
Support + Troubleshooting	Description Expires Value
Troubleshooting	No client secrets have been created for this application.

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	0 Manifest	ADAudit Plus application description	11/16/2021	opGY.mZrq_9kpXvh9aLLn~21tdH0~h1J	G_
	P Troubleshooting				

- 5. Go to Manage > App registrations. Select your application under Owned Applications.
- 6. Navigate to Application (Client ID) and click Copy to clipboard.



3.1.5 Setting up Azure AD in ADAudit Plus

- 1. Open the ADAudit Plus web console.
- 2. Go to Configuration > Configured Server(s) > Cloud Directory.
- 3. Select +Add Tenant in the top-right corner.

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Alert Profiles Wew/Modify Alert Profiles Crieate Alert Profile	•							
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Report Profiles View/Modity Report Profiles	×							
Configuration Advanced Configurations Grobal Exclude Configuration								

- 4. Select Audit via Azure.
- 5. In the Cloud Directory window, choose the **Cloud Type** based on the national cloud points from the list below:
 - Azure AD global service (Azure Cloud Default)
 - Azure AD for US Government L4 (Azure GCC High Cloud)
 - Azure AD for US Government L5 (Azure DOD Cloud)
 - Azure AD China operated by 21Vianet (Azure China Cloud)
 - Azure AD for Germany (Azure Germany Cloud)
- 6. Enter the Tenant Name, Client ID, and Client Secret.

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	/Jourd Directory		-					
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Note: To obtain the tenant name:

- Go to the Azure portal, and sign in using your Microsoft account.
- Search for and select **Microsoft Entra ID**.

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- Go to Manage > Custom domain names.
- Click Add filter, under Filter, select Primary from the dropdown, and under Value, select Yes from the dropdown.

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• Copy the name of the primary domain that is displayed and paste it in the **Tenant Name** field

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7. Click Add.

3.1.6 Privileges required while using Azure AD Graph API

The use of Azure AD Graph API is deprecated. Instead, it's strongly recommended you use the Microsoft Graph API to audit your Azure AD.

For more details on why Azure AD graph API was deprecated, check the FAQ.

Check if you are using Azure AD Graph API and, if so, migrate using these steps:

- 1. Open the ADAudit Plus web console.
- 2. Go to Configuration > Configured Server(s) > Cloud Directory.
- In the top-right corner, if the Migrate to Microsoft Graph API button is available, then Azure Active Directory Graph API is in use.
- If the Back to Azure AD Graph API button is available, then Microsoft Graph API is in use.
- 3. Migrate to Microsoft Graph API from Azure AD Graph API by clicking **Migrate to Microsoft Graph API** at the top-right corner.
- 4. Click **Yes** in the confirmation prompt.

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Alert Profiles View/Modify Alert Profiles Create Alert Profile							
Report Profiles View/Modify Report Profiles	×						
Configuration Advanced Configurations Global Exclude Configuration							

Note: Once you have migrated to Microsoft Graph API, add the necessary minimum privileges using the steps listed here.

If you still want to use Azure AD Graph API, you can find the privileges required below:

• Directory.Read.All

3.2. Configuring using a Microsoft 365 license

To audit your Azure AD environment using a Microsoft 365 license, ADAudit Plus uses the Microsoft 365 Management API for all installations after ADAudit Plus build 7050.

3.2.1 Privileges required while using Microsoft 365 Management API

- Microsoft Graph API > Directory.Read.All
- Office 365 Management API > ActivityFeed.Read

3.2.2. Register an application

Register an application in the Azure portal, using these steps:

- 1. Go to the Azure portal, and sign in using your Microsoft account.
- 2. Select the Azure Active Directory service from the Azure services top pane.

Azure services				
Create a Azure Active resource Directory Domain	Image: Subscriptions Image: Subscriptions Activity log Management Accounts Accounts Accounts	Resource Virtual More services groups		
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3. Go to **Manage > App registrations > New registrations** to open the Register an application window.

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Administrative units	TestAppMgmt Name Changed d45a42e	9-d711-4299-b147-3b38c	:d012fd1
Enterprise applications	TE test1 1ed71d1	5-088c-4db1-b72e-1223c	108971c1
Devices	ADAudit Plus Application 5c01118	f-c384-43d3-9efd-520c68	a19af8
👯 App registrations	ADAuditPlus III Change Application Test cf385b3	o-e910-4d39-818d-4ea69	8a84bb9
Identity Governance	TestApplication 1196819	5-7143-4422-9ff7-64ce0fb	Acd14
Application proxy	ADauditPlus New Application. d526c44	d-e789-4cce-b351-d2614	9b5b1fe
Licenses	zohoazureadap 919e410	9-1262-4932-926b-418a8	30d6aaf

- 4. Enter the application name, for example, ADAudit Plus Application.
- 5. Ensure that Accounts in this organizational directory only (zohoadapazure only Single tenant) is selected under Supported account types.

Microsoft Azure	P Search resources, services, and docs (G+/)
Home > zohoadapazure >	
Register an application	n
* Name	
The user-facing display name for this ap	olication (this can be changed later).
ADAudit Plus application	\checkmark
Supported account types	
Who can use this application or access t	nis API?
 Accounts in this organizational dire 	tory only (zohoadapazure only - Single tenant)
 Accounts in any organizational dire 	tory (Any Azure AD directory - Multitenant)
Accounts in any organizational dire	tory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
Personal Microsoft accounts only	
Help me choose	
Redirect URI (optional)	
We'll return the authentication response changed later, but a value is required for	to this URI after successfully authenticating the user. Providing this now is optional and it can be most authentication scenarios.
Web 🗸	e.g. https://myapp.com/auth
By proceeding, you agree to the Microso	ft Platform Policies 🗗
Register	

6. Click Register.

3.2.3 Grant minimum privileges required for Microsoft 365 Management API

Grant the necessary privileges using Microsoft 365 Management API, using these steps:

- 1. Go to the Azure portal, and sign in using your Microsoft account.
- 2. Select Azure Active Directory service from the Azure services section.

Azure services									
Create a resource Director	ive y Domain	Cost Management	† Subscriptions	Storage accounts	Activity log	Resource groups	Virtual machines		
Recent resources			Tupe			Last Viewed			
📍 Pay-As-You-Go		Subscription				a week ago			
💼 adapazurestoragétest			Storage a	ccount			2 weeks ago		
() adapstorage			Resource	group			3 weeks ago		
🚭 azurəfilesync			Storage S	ync Service			3 weeks ago		
Navigate									
4	6.3					10770			

3. Go to Manage > App registrations. Select your application under Owned applications.

■ Microsoft Azure		
Home > zohoadapazure		
zohoadapazure A	App registrations 🛷	
Overview	K + New registration ⊕ Endpoints P Troubleshooting ↓ Download Preview features ♥ Got feedba	ack?
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X Diagnose and solve problems Manage	All applications Owned applications	
🔏 Users	Start typing a name or Application ID to filter these results	
A Groups	Display name Application (c	client) II
🗊 External Identities	Reporting API AzureAD 16630a89-deb	bd-4ade
🍰 Roles and administrators	Reporting API e4bcbb27-72a	ab-499e
Administrative units	TestAppMgmt Name Changed d45a42e9-d71	11-4299
Enterprise applications	1ed71d15-088	8c-4db1
🛄 Devices	AP ADAudit Plus Application 5c01118f-c384	4-43d3-
III, App registrations	ADAuditPlus UI Change Application Test cf385b3b-e91	0-4d39-
ldentity Governance	TestApplication f1968195-714	13-4422-
Application proxy	ADauditPlus New Application d526c44d-e78	89-4cce
Licenses	zohoazureadap 919e4109-126	52-4932
Azure AD Connect	Test 6bf8f0f0-0fa7-	-4494-8

 Go to Manage > API permissions and select + Add a permission to open the Request API permissions window.

😑 Microsoft Azure	> Search resources, services, and docs	(G+/)						
Home > zohoadapazure > ADAudit Plus	Application							
ADAudit Plus Applic	ation API permissio	ns ☆						
✓ Search (Ctrl+/) «	🕐 Refresh 🛛 🗢 Got feedback	2						
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 Quickstart Integration assistant Preview 								
	Configured permissions							
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🧮 Branding	all the permissions the application he	eds. Learn more a	about permissions and consent					
Authentication	+ Add a permission ✓ Grant a	admin consent for	zohoadapazure					
Ŷ Certificates & secrets	API / Permissions name	Туре	Description	Admin cons				
Token configuration	VAzure Active Directory Graph	(1)						
➔ API permissions	Directory.Read.All	Application	Read directory data	Yes				
Expose an API	→ Microsoft Graph (3)							
Uwners	AuditLog.Read.All	Application	Read all audit log data	Yes				
Roles and administrators Preview	Directory.Read.All	Application	Read directory data	Yes				
11 Manifest	User.Read	Delegated	Sign in and read user profile	-				

5. Select Office 365 Management APIs.



6. Choose Application permissions.



7. In the Request API permissions window, select **Application permissions**, then check the **ActivityFeed.Read** box under ActivityFeed. Select **Add permissions**.

Microsoft Azuro	(P ¹ Sector management remices) and along (G+/)	12	된 데 @ ⑦ 후 administrator@zoboada zohozowazier zohozowa				
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0, Search (Ctrl+/)	= ◯ Befresh 🛱 Got feedback?	CAB APIS What type of permissions does your application require?					
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Support + Troubleshoating	Audittog Resc.401 Application Read all audit to						
P Troubleshooting	Directory Read All Application Read electory d	Add permission: Discord					

8. Once again, go to Manage > API permissions > + Add a permission.

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🗳 Quickstart	application to use Microsoft Grap	h API instead of A	zure AD Graph API to access Azure Active Directory	resources. Learn more
💋 Integration assistant Preview	Configured permissions			
Manage	Applications are authorized to call API	s when they are	granted permissions by users/admins as part of	the consent process. The
🧮 Branding	all the permissions the application nee	ds. Learn more a	about permissions and consent	
Authentication	$+$ Add a permission \checkmark Grant ac	lmin consent for	zohoadapazure	
📍 Certificates & secrets	API / Permissions name	Туре	Description	Admin cons
Token configuration	→ Azure Active Directory Graph (1)		
API permissions	Directory.Read.All	Application	Read directory data	Yes
Expose an API	→ Microsoft Graph (3)			
Owners	AuditLog.Read.All	Application	Read all audit log data	Yes
Roles and administrators Preview	Directory.Read.All	Application	Read directory data	Yes
10 Manifest	User.Read	Delegated	Sign in and read user profile	-

9. Select Microsoft Graph in the Request API permissions window.



10. Select Application permissions.

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Horny - archaodamanury - ADAu D ADAudit Plus Ap A Seamfr (Cull+2) B Oversites Guidenter	Ide Plac Application opplication API permissions Image: Section API	Request API permissions call APie Microsoft Graph Impu//graph.microsoft.com/. Boom eff What type of permissions close your application require?	*
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11. Check the Directory.Read.All box under Directory. Select Add permissions.

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12. Select Grant admin consent for <tenant name>.

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13. Click Yes.

3.2.4 Obtain client ID and client secret

- 1. Go to the Azure portal, and sign in using your Microsoft account.
- 2. Select Azure Active Directory service from the Azure services section.

Azure servic	es										
4	٨		6	· 🕈			(**)	Q	\rightarrow		
Create a resource	Azure Active Directory	Azure AD Domain	Cost Management	Subscriptions	Storage accounts	Activity log	Resource	Virtual machines	More service		
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nce azurefilesync				Storage S	Syric Service			3 weeks ago			
Navigate											

- 3. Go to Manage > Certificates & secrets.
 - Click + New client secret.
 - Type in the description and the expiration date.
 - Click Add.

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Home > zohoadapazure > ADAudit P	lus applicaiton i cation Certificates	& secrets 🛷		
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10 Integration assistant	Certificates			
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Authentication	↑ Upload certificate			
Certificates & secrets	Thumbprint		Start date	Expires
Token configuration	No certificates have been adde	l for this application.		
API permissions				
Expose an API				
🎎 App roles Preview	Client secrets			
Owners	A secret string that the applicat	on uses to prove its identity whe	n requesting a token. Also	can be referred to as ap
Roles and administrators Pre				
Manifest	+ New client secret			
Support + Troubleshooting	Description No client secrets have been cre	Expires ated for this application.	Value	



4. Copy the **client secret value** (e.g., 14uClLxkHtlVGR3wkCq12341Nd5VtestkkWTylPrrE=).



5. Go to Manage > App registrations. Select your application under Owned applications.

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4	Roles and administrators	xx Reporting API	e4bcbb27-72ab-4
	Administrative units	In TestAppMgmt Name Changed	d45a42e9-d711-4
12	Enterprise applications	test)	1ed71d15-088c-4+
-	Onvicus .	ADAudit Plus Application	5c01118f-c384-43
82	App registrations	ADAuditPlus U) Change Application Test	cf385b3b-e910-4c
(3)	Identity Governance	n TestApplication	f1968195-7143-44
15	Application proxy	ADauditPlus New Application	d526c44d-e789-4+
-	Licenses	zohoazareadap.	919e4109-1262-41
	Azure AD Connect	Test	6bf8f0f0-0fa7-449

6. Navigate to Application (client ID) and click Copy to clipboard.

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Integration assistant Preview	Directory (tenant) ID : 34e0cdfc-a347-4052-815a-e1ef9526deb9
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Support + Troubleshooting	Build more powerful apps with rich user and business data from Microsoft services and your own company's data sources
P Troubleshooting	View API permissions
New support request	

3.2.5. Setting up Azure AD in ADAudit Plus

- 1. Open the ADAudit Plus web console.
- 2. Go to **Configuration > Configured Server(s) > Cloud Directory.**

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- 3. Select + Add Tenant.
- 4. Select Audit via Office 365.
- 5. In the Cloud Directory window, enter the Tenant Name, Client ID, and Client Secret.

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Note: To obtain the tenant name:

- Go to the Azure portal, and sign in using your Microsoft account.
- Search for and select **Microsoft Entra ID**.

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- Go to Manage > Custom domain names.
- Click Add filter, under Filter, select Primary from the dropdown, and under Value, select Yes from the dropdown.

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• Copy the name of the primary domain that is displayed and paste it in the **Tenant Name** field.

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6. Click Add.

3.2.6 Privileges required for Office 365 cmdlet configuration

ADAudit Plus uses the below-listed APIs to audit Azure AD.

- Office 365 Management API for all installations after ADAudit Plus build 7050.
- PowerShell cmdlets (unified audit log) for tenants who configured Azure AD via Office 365 before ADAudit Plus build 7050.

Note: ADAudit Plus strongly recommends using Office 365 Management API to obtain Azure AD events. For tenants still using PowerShell cmdlets, you can update your configuration by migrating O365 cmdlet configuration to Office 365 Management API configuration. You can find the steps to do it here.

Check and migrate O365 cmdlet configuration to M365 API configuration

- 1. Open the ADAudit Plus web console.
- 2. Go to Configuration > Configured Server(s) > Cloud Directory.
- 3. Under the Actions column in the report, select the **Migrate** icon.

Note: This is only necessary for tenants who configured Azure AD via O365 before build 7050. This feature will be available once the users upgrade to build 7050 or above.

4. In the Migrate to M365 API window that opens, enter the **Client ID** and **Client Secret** generated previously.

ifiguration	Migrate to M365 API	×		_
	Client ID Client Secret	0		
	Why to migrate? The existing configuration uses 'Exchange Online Powershell Cmdlets' to O365/M365 and authenticates using Basic Authentication, which has been	collect events from n depreciated (Refer		TI
padauditp	link). So, We suggest migrating to O365 Management Activity rest-based web A protocol for authentication.	API, which uses OAuth2	un Now]	Ai Si St
pazure.on	Migrate Cancel		un Now]	Ai Si

5. Click Migrate.

If you still want to use O365 cmdlet configuration and you are using an ADAudit Plus build lower than 7050, you can find the privileges required below:

Required role	Permission
Global administrator	Compliance Management (Audit Logs)
	Organization Management (View-Only Audit Logs)

Listed below are the system specifications required:

i. Microsoft .NET Framework 4.0

- To check whether .NET Framework 4.0 is installed:
- Go to Start > Command Prompt.
 Type in the following query: reg query
 "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework
 Setup\NDP\v4\full" /v version.
- Ensure that the version number is 4.0.
 If not, download NET Framework 4.0 from here and install it.

ii. PowerShell version 3

To check whether PowerShell is installed:

- Go to Start > Run.
- Type in **PowerShell.**
- If PowerShell is installed, check for its version number by typing in the following query in the command prompt: **\$PSVersionTable.**
- If PowerShell is not installed or if the existing PowerShell version is below 3, you can install or upgrade to version 3 from here.

iii. Azure AD module for Windows PowerShell

To check whether the Azure AD module is installed:

- Go to Start > Run
- Type in **PowerShell.**
- Type in the query **get-module -Name AzureAD**. This will list the module if it's already installed. In case it's not, install the module by running the PowerShell cmdlet **Install-Module Azure AD**.

Notes:

- Gain a correlated view of your hybrid AD environments by configuring both Azure AD and on-premises AD domain details in ADAudit Plus.
- This Azure AD module is available only in the 64-bit version of Windows.

4. Reporting capabilities of ADAudit Plus

4.1. ADAudit Plus vs. Azure portal

ADAudit Plus	Azure portal
On-premises o	domain details
Displays both on-premises and cloud details, such as SID, GUID, and user distinguished name	Only displays details available in the cloud, such as user name and display name
Activity	y origin
Generates details on where the activity began, e.g., in the cloud or synced from Windows servers	Does not include details on where the activity began
Rete	ntion
Retains historical data based on the retention period configured by the user	Amount of data stored depends on the license level in Azure (maximum retention duration is 30 days)
Rep	orts
Analyzes user login details across both on-premises and cloud environments from a single console	Generates only cloud login details in reports

Table 2: A detailed comparison of how auditing via ADAudit Plus differs from auditing via theAzure portal over multiple categories.

4.2. ADAudit Plus vs. Microsoft 365 (using PowerShell cmdlets)

ADAudit Plus	Microsoft 365				
On-premises o	domain details				
Displays both on-premises and cloud details, such as SID, GUID, and user distinguished name	Only displays details available in the cloud, such as user name and display name				
Activity	y origin				
Generates details on where the activity began, e.g., in the cloud or synced from Windows servers	Does not include details on where the activity began				
Rete	ntion				
Retains historical data based on the retention period configured by the user	Amount of data stored is based on the license level in Microsoft 365 (maximum retention duration is 90 days)				
Rep	orts				
Lists user login details across both on-premises and cloud environments from a single console	Generates only cloud login details in reports				

Table 3: A detailed comparison of how auditing via ADAudit Plus differs from auditing viaMicrosoft 365 over multiple categories.

5. Event categories tracked by ADAudit Plus

5.1. Event details

Listed below are the event categories that are monitored by ADAudit Plus.

Azure Active Directory — Application

Azure Active Directory — Device

Azure Active Directory — Directory

Azure Active Directory — Group

Azure Active Directory — Policy

Azure Active Directory — Role

Azure Active Directory — Sign-in

Azure Active Directory — User

Azure Active Directory

6. Log retention settings in Azure AD

It is imperative to retain an adequate amount of historical audit data to meet any compliance or forensic requirements that might arise. The retention period for both Microsoft 365 and Azure AD is based on the user's license level and allows for only a maximum of 90 days. ADAudit Plus, however, provides admins with the option to configure any custom retention period, ensuring a foolproof audit trail.

7. Troubleshooting

Errors and solutions

- 1. Failed to add tenants. Check your client secret.
- 2. Unable to add tenants due to invalid client ID.
- 3. Invalid tenant name.
- 4. Insufficient privileges to audit Azure AD.
- 5. The Azure AD server is taking too long to respond. Check your network connectivity.
- 6. Unable to connect with the Azure AD server due to connection reset.
- 7. Unable to connect with the Azure AD server due to trust failure.
- 8. Certificate update in progress. Restart the ADAudit Plus service.
- 9. The sign-in logons require an Azure AD premium license.
- **10.** Insufficient privileges when auditing via Office 365.
- 11. The configured proxy server is unreachable.
- 12. Network unreachable.
- 13. Unauthenticated proxy server configured.
- 14. Spike in Azure AD event requests.
- 15. The event collection is taking too long.
- 16. Insufficient privileges to carry out risk detection.
- 17. No data available.

1. Failed to add tenants. Check your client secret.

Issue: Unable to add tenants to configure Azure AD due to invalid client secret.

Solution: Client secret values will be available only while it is generated. So, if you have a copy of your current client secret copied elsewhere, you can use it to compare to the value configured in ADAudit Plus. If not, you will have to create a new client secret.

Generate a new client secret by following the steps listed below:

- i. Go to the Azure portal.
- ii. Select the Azure Active Directory service from the Azure services top pane.
- iii. Go to Manage > App Registrations. Select your application under Owned application.
- iv. Go to Manage > Certificates & secrets.
- v. Click + New client secret.
- vi. Type in the description. Click Add.
- vii. Copy the client secret value (e.g., "14uClLxkHtlVGR3wkCq12341Nd5VtestkkWTylPrrE=")

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44 Quickmant	Gite & second to give us some hindb	60 ¹ -9				8	
💉 ilőtegrationi assistant							
Manage	Credentials enable confidential applicate schemes. For a higher level of assurance.	ine to identify themselves we recomminit using 4 ce	to the authentication service when receiving tokens at miticate (instead of a client secret) as a credential.	a web addressible location	Jump an HTTPS		
Branding & properties							
3 Authentication	Application registration certificates.	ecrets and federated creder	titals can be found in the table below.				
T Certificates & secrets							
III Token zoofiguration	Certificates (0) Client secrets (1)	Federated credentiab	. (0)				
🐟 Al ^a i permissioni	A secret string that the application use	to prove its identity when	requesting a token. Also can be referred to all applicat	ion persword.			
Expose an All							
💶 App roles	 New client secial 						
🚑 Owners	Description	Expires	Value 🛱	Secret /D			
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- viii. Now open the ADAudit Plus console.
- ix. Navigate to Azure AD > Configuration > Cloud Directory.

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Directory Management Logon Activity By MYA	3								
Profile Based Reports Provide Reports									

- x. Click + Add Tenant icon at the top-right corner.
- xi. Input the tenant name, client ID, and client secret value.

xiii. Click Save.

2. Unable to add tenants due to invalid client ID

Issue: Unable to add tenants to configure Azure AD due to invalid client ID.

Solution: Check if you have entered the correct client ID by following the steps listed below:

- i. Go to the Azure portal.
- ii. Select the Azure Active Directory service from the Azure services top pane.
- iii. Go to Manage > App registrations. Select your application under Owned applications.
- iv. Navigate to Application (client ID) and click Copy to clipboard.

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P Bearch (Ctrl+/) «	Delete 🕀 Endpoints 🐻 Preview features
	A Essentials
duickstart	Display name : ADAudit Plus Application
🕺 Integration assistant Preview	Application (client) ID : 5c01118f-c384-43d3-9efd-520c68a19af8
Manage	Directory (tenant) ID _ : 34e0cdfc-a347-4052-815a-e1ef9526deb9
Manage	Object ID : 19c41367-8bc9-4139-a3f5-f1981fa4c410
Branding	Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication
Authentication	will no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication II
📍 Certificates & secrets	
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Roles and administrators Preview	🔁 🚯 - 🌺 🚮
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Distribution Provide August 2015 Provide Au	sources: View ADD permittions
2 New support request	

- v. Now open the ADAudit Plus console.
- vi. Navigate to Azure AD > Configuration > Cloud Directory.

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Directory Management												
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Conditional Policy Changes	э.											
Profile Based Reports	9											
Favourite Reports	36											

- vii. Click + Add Tenant icon at the top-right corner.
- viii. Input the tenant name, client ID, and client secret values.
- ix. Click Save.

3. Invalid tenant name

Issue: Unable to add tenant due to invalid tenant name.

Solution: Check if you have entered the correct tenant name by following the steps listed below:

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A Groups						
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Administrative units	Tenant ID 34e0cdtc-#347-4052-615#-e1#9526deb9	Groups	18.			1
👍 Delegated admin partners		-				
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Devices	License Azure AD Promium P2	Devices 15	9			
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C Application proxy	Upcoming TLS 1.0, 1.1 and 3DES deprecation					
Gustom security attributes (Preview)	Please enable support for TLS 1.2 on esents(applications/plattorm) to avail any service empact.					

- i. Go to the Azure portal.
- ii. Select the Azure Active Directory service from the Azure services top pane.
- iii. Go to **Overview** in the left pane. Copy the tenant name.
- iv. Now open the ADAudit Plus console.
- v. Navigate to Azure AD > Configuration > Cloud Directory.
- vi. Click +Add Tenant at the top-right corner.
- vii. Type in the correct tenant name, client ID, and client secret values.

viii. Click Save.

4. Insufficient privileges to audit Azure AD

Issue: The application does not have the necessary privileges required to audit the cloud directory.

Solution: Grant the minimum required permissions for application created to audit Azure AD using the steps listed on this page.

5. The Azure AD server is taking too long to respond. Check your network connectivity

Issue: There is a connectivity issue between the ADAudit Plus server and Azure AD server.

Solution: Check if there is a stable and reliable internet connection with a speed of 20Mbps or over.

If there is proxy configured in the machine where ADAudit Plus is installed, then configure proxy setting in ADAudit Plus too, using these steps:

- In ADAudit Plus web console, go to Admin > Connection > Proxy.
- Check the **Proxy Server Settings** checkbox.
- Type in the proxy server details.
- Click Save.

6. Unable to connect with the Azure AD server due to connection reset.

Issue: A firewall could be restricting ADAudit Plus from connecting with the Azure AD server.

Solution: If you are using a firewall to secure your network, kindly ensure that the domains listed below are added to the exemption list.

https://login.microsoftonline.com https://outlook.office365.com https://graph.windows.net https://graph.microsoft.com https://manage.office.com

If you do not use a firewall, or if the issue persists even after upgrading to the latest build, contact support.

7. Unable to connect with the Azure AD server due to trust failure.

Issue: A firewall could be restricting ADAudit Plus from connecting with the Azure AD server.

Solution: If you are using a firewall to secure your network, kindly ensure that the domains listed below are added to the exemption list.

https://login.microsoftonline.com https://outlook.office365.com https://graph.windows.net https://graph.microsoft.com https://manage.office.com

If you do not use a firewall or if the issue persists even after upgrading to the latest build, contact support.

8. Certificate update in progress. Restart ADAudit Plus service

Issue: The updated Azure certificate is missing from the ADAudit Plus trust store.

Solution: Restart the ADAudit Plus service to reflect the already updated certificate in the ADAudit Plus trust store.

Note: The required certificate will be automatically updated to the ADAudit Plus trust store.

9. The sign-in logons require Azure AD premium license

Issue: Details of sign-ins can be obtained only if the tenant has an Azure Active Directory P1 or P2 license.

Solution: Upgrade your Azure license. For more details here.

10. Insufficient privileges when auditing via Office 365

Issue: The application configured for O365 API does not have the necessary privileges required to audit the cloud directory.

Solution: Grant the minimum required permissions for application created to audit Azure AD using the steps listed on this page.

11. The configured proxy server is unreachable

Issue: The configured proxy server is not running.

Solution: Check the proxy server's running status. If it's running, configure it in ADAudit Plus' proxy setting.

If the issue persists contact support.

12. Network unreachable

Issue: The server that ADAudit Plus is installed on can't connect to the internet.

Solution: Check the server's internet connection and provide internet connectivity if you haven't done so already.

Note: The required certificate will be automatically updated to the ADAudit Plus trust store.

13. Unauthenticated proxy server configured

Issue: Although an authenticated proxy server is available, an unauthenticated setup is configured in the ADAudit Plus console.

Solution: Configure the right username and password on the ADAudit Plus proxy setting page, using these steps:

- In ADAudit Plus web console, go to Admin > Connection > Proxy.
- Check the **Proxy Server Settings** checkbox.
- Type in the proxy server details.
- Click Save.

14. Spike in Azure AD event requests

Issue: There is a sudden spike in the number of requests to Azure AD.

Solution: The issue will be fixed automatically when you upgrade to build 7080 or above.

Find the service pack to upgrade to build 7080 on this page.

15. The event collection is taking too long

Issue: The event fetch has been running for a long time.

Solution: Click run-now. If it keeps throwing the same error, contact support.

16. Insufficient privileges to carry out risk detection

Issue: The Azure AD premium license does not have the required privileges to analyze risky sign-in activities.

Solution: Find the minimum required permissions for application created to populate information about risky sign-in action in Azure AD using the steps listed on this page.

17. No data available

Issue: Data unavailable for the reports under Azure AD

Solution: This issue could stem from multiple factors. One of which is insufficient privileges, i.e., the account used to logon to ADAudit Plus does not have necessary privileges to audit Azure. In such cases, there will be an in-product notification as shown in the screenshot below.

ADAudit P	tus)											License	A jobs	7 O
theshboard	Reports					1 Cophpyreast						Second 1	O Gen	
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Tried log in using	old password													
Tried log in using weak password	newly created													
Password contain	15 username													
Login using inveb	d client secret													
Аррисатion usage														
Login on disabled	application													
Logon failed due Conditional Policy	to device f													0
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To resolve this, check if the account you have used to logon has privileges to view Cloud Directory reports using the steps below:

- Open ADAudit Plus web console.
- Go to Admin > Technicians.
- Click the **Modify** icon under the Action column next to the name of the user account you have used to logon.
- Check Cloud Directory under Delegate Role to list.

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Now verify if you can view the Azure AD reports by logging on using that user account.

If you have the necessary privileges and are still not able to populate any reports under the Cloud Directory, contact support.

Our Products

AD360 | Log360 | ADManager Plus | ADSelfService Plus | DataSecurity Plus | M365 Manager Plus

About ADAudit Plus

ADAudit Plus is a UBA-driven auditor that helps keep your AD, Entra ID, file systems (including Windows, NetApp, EMC, Synology, Hitachi, Huawei, Amazon FSx for Windows, Azure and QNAP), Windows Server, and workstations secure and compliant. ADAudit Plus transforms raw and noisy event log data into real-time reports and alerts, enabling you to get full visibility into activities happening across your Windows Server ecosystem in just a few clicks. For more information about ADAudit Plus, visit manageengine.com/active-directory-audit.