OAuth / OpenID Connect Single Sign-On (SSO) into Joomla using Azure AD

Single Sign-On (SSO) with Microsoft Entra ID (Azure AD) in Joomla uses OAuth Authorization to provide users secure access to the Joomla site. With our Joomla OAuth Single Sign-On (SSO) plugin, Microsoft Entra ID (Azure AD) acts as the OAuth provider, ensuring secure login for Joomla websites.

The integration of Joomla and Microsoft Entra ID (Azure AD) simplifies and secures the login process using OAuth protocol. This solution allows users to access their Joomla sites with Single Sign-On (SSO) using their Microsoft Entra ID (Azure AD) credentials, completely removing the need to store, remember, and reset multiple passwords.

In addition to offering OAuth Single Sign-On (SSO) using Microsoft Entra ID credentials, the plugin also provides advanced SSO features like user profile attribute mapping, role mapping, and Azure multi-tenant login and providing site access based on organization roles. For further insights into the array of features we offer within the Joomla OAuth & OpenID Connect Client plugin, kindly visit our page here. You can follow the below steps to setup Microsoft Entra ID (Azure AD) OAuth SSO with Joomla.

Steps to Install Joomla OAuth Client Plugin

- <u>Download</u> the zip file for the **miniOrange OAuth Client plugin** for Joomla.
- Login into your Joomla site's administrator console.
- From left toggle menu, click on **System**, then under **Install** section click on **Extension**.
- Upload the downloaded zip file to install the **Joomla OAuth Client** plugin.
- Installation of the plugin is successful. Now click on **Start Using miniOrange OAuth Client plugin**.
- Under Configure OAuth -> Pre-Configured Apps tab, select your OAuth Provider. You can also search for custom OAuth or custom OpenID application in the search bar, and configure your own custom provider.

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Step 1: Steps to configure Microsoft Entra ID OAuth SSO into Joomla

1. Configure Callback/Redirect URL

• After selecting your OAuth provider, you will be redirected to the **Step 1 [Redirect URL]** tab. Now copy the **Callback/Redirect URL** which we will use to configure Microsoft Entra ID as OAuth Server, then click on the **Save & Next** button.

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嶜 Users	> ::	Step 2 [Client ID & Secret]	
🔑 System		Step 3 [Attribute Mapping]	*Application
🔹 Help		Step 4 [SSO URL]	Redirect / Callback URL: http ~
		Import / Export Configuration Premium Features M Delete Application	Note: This Redirect / Callback URL is used to configure your OAuth Server/Provider in order to get the Client ID and Client Secret.

- Log into the <u>Azure portal</u>.
- Click on Microsoft Entra ID under Azure services.

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• In the left-hand navigation pane, click the **App registrations**, and click on **New registration**.

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Home > Default Directory				
Default Directory	App registrations 🛷 …			×
0 Overview	+ New registration Endpoints 🤌 Troubleshooting 🕚 Refre	sh 🞍 Download 📾 Preview features 🛛 🔊 Got feedback?		
 Preview features X Diagnose and solve problems 	Starting June 30th, 2020 we will no longer add any new features to Azur updates but we will no longer provide feature updates. Applications will	e Active Directory Authentication Library (ADAL) and Azure Active Directory Graph. need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Gr	We will continue to provide technical support and security raph. Learn more	×
Manage				
🚨 Users	All applications Owned applications Deleted applications	Applications from personal account		
🎥 Groups	\wp Start typing a display name or application (client) ID to filter these r.	Add filters		
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Enterprise applications				
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Application proxy				
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• When the Create page appears, enter your application's registration information:



• Under **Redirect URL**, select **Web** from the dropdown and enter the **Callback URL** copied earlier in the given field. Then, click on the **Register** button to register the new application.

■ Microsoft Azure			Σ	R;	R	- 4
Home > Default Directory App registrations >						
Register an application						\times
* Name						
The user-facing display name for this application (this can be changed	d later).					
TestOAuth		~				
Supported account types						
Who can use this application or access this API?						
 Accounts in this organizational directory only (Default Directory or a section of the section of t	only - Single tenant)					
Accounts in any organizational directory (Any Microsoft Entra ID	tenant - Multitenant)					
 Accounts in any organizational directory (Any Microsoft Entra ID Xbox) 	tenant - Multitenant) and personal Microsoft acco	ounts (e.g. Skype,				
O Personal Microsoft accounts only						
Help me choose						
Redirect URI (optional)						
We'll return the authentication response to this URI after successfully changed later, but a value is required for most authentication scenario	authenticating the user. Providing this now is options.	onal and it can be				
Web V https://domain_name/oauth	/callback 🗸					
Register an app you're working on here. Integrate gallery apps and ot	ther apps from outside your organization by addin	g from Enterprise applications.				
By proceeding, you agree to the Microsoft Platform Policies 🗗						
Register						

2. Configure Client ID and Secret

• Now go to the **Overview** tab of your **registered application**. Here, copy the **Application ID** and the **Directory ID**, this will be your **Client ID** and **Tenant ID** respectively.

\equiv Microsoft Azure	${\cal P}$ Search resources, services, and docs (G+/)			D 6 0 0 8	abhayyadav180@gmail DEFAULT DIRECTORY
Home > Default Directory App regist	rations >				
TestOAuth 🖉 …					×
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📕 Overview					
📣 Quickstart	← Essentials				
🚀 Integration assistant	Display name : <u>TestOAuth</u>		Client credentials	: Add a certificate or secret	
Manage	Object ID :		Application ID URI	: Add an Application ID URI	
Branding & properties	Directory (tenant) ID :		Managed application in	I : <u>TestOAuth</u>	
Authentication	Supported account types : My organization	only			
Certificates & secrets					
Token configuration	Get Started Documentation				
API permissions	Microsoft identity platform	Code samples	Help and Support		
Expose an API	Authentication scenarios	Microsoft Graph@	Glossary		
App roles	Authentication libraries				
A Owners					
🗸 Roles and administrators					
Manifest					
Support + Troubleshooting					
Troubleshooting					
New support request					

• Go to **Certificates and Secrets** from the left navigation pane and click on **New Client Secret**. Enter description and expiration time and click on **Add** option.

🔶 TestOAuth - Certificates 8	k secrets
	Add a client secret
OverviewQuickstart	Description Secret Key
Manage	Expires
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Token configuration (preview)	
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🚳 Expose an API	A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as a
Owners	+ New client secret
Roles and administrators (Previ	Description Expires Value
0 Manifest	No client secrets have been created for this application.
Support + Troubleshooting	
Troubleshooting	
New support request	

• Copy value. This will be your Client Secret.

Home > Default Directory App registra	Iome > Default Directory App registrations > AzureCustomer									
💡 AzureCustomer Ce	ertificates & secrets	\$								
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Overview					<u>^</u>					
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🚀 Integration assistant										
Manage	Credentials enable confidential ap scheme). For a higher level of assu	plications to identify themselves to t irance, we recommend using a certif	the authentication service when rec icate (instead of a client secret) as a	eiving tokens at a web addressable location (using an H credential.	ATTPS					
Branding & properties										
Authentication	 Application registration certi 	icates, secrets and federated credential	s can be found in the tabs below.		×					
📍 Certificates & secrets										
Token configuration	Certificates (0) Client secre	ets (1) Federated credentials (0))							
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• Go to the **Step 2 [Client ID & Secret]** tab of the Joomla OAuth Client plugin, here paste the **Client ID**, **Client Secret** and **Tenant**. Click on the **Save Configuration** button.

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i Help		Step 4 [SSO URL]		Enter the Client ID obt	ained from the provide	ſ		
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		Configuration	Set Client Credentials	🛃 In Header 🗹 In Body				
		Premium Features 👑					Save Co	onfiguration
		Delete Application						

2.1. Scope & Endpoints

- If you want to enable scopes, you can follow the following steps:
- Go to **Application** -> Select the application where you want to enable scopes. Now, Go to the **API Permissions** tab.

All services > Azure Active Directory O	verview > OAuth Server permissions 🛷 …					×
	🕐 Refresh 🕴 🖗 Got feedback?					
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 Quickstart Integration assistant 	The "Admin consent required" co organizations where this app will	lumn shows the default be used. Learn more	value for an organization. However, user consent c	an be customized per permission, user, or app. This column m	ay not reflect the value in your organization, or in	×
Manage	Configured permissions					
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📍 Certificates & secrets	+ Add a permission					
Token configuration	API / Permissions name	Туре	Description	Admin consent require	:d	
 API permissions 	V Microsoft Graph (1)					
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<i>Troubleshooting</i>						
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 Click on the Add permission button, and then Microsoft Graph API -> Delegated Permissions and select openid, Profile scope and click on the Add Permissions button.

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nat ty Deleg Your a	ype of permissions does your application require? gated permissions application needs to access the API as the signed-in user.	Application permissions Your application runs as a background service or daemon without a signed-in user.
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Add permissions Discard

• Click on the Grant admin consent for default directory for Demo button.

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. Learn more about permissions and consent

+ Add a permission 🗸 G	+ Add a permission 🗸 Grant admin consent for Default Directory				
API / Permissions name	Туре	Description	Admin consent requ	Status	
∽ Microsoft Graph (9)					••••
openid	Delegated	Sign users in	No	🥑 Granted for Default Dire	••••
profile	Delegated	View users' basic profile	No	🥑 Granted for Default Dire	•••

3. Configure Attribute Mapping

- User Attribute Mapping is mandatory for enabling users to successfully login into Joomla. We will be setting up user profile attributes for Joomla using below settings.
- Go to Step 3 [Attribute Mapping] tab and click on Test Configuration button.



• You will be able to see the attributes in the Test Configuration output as follows.

-	localhost/joomla/?code=TCA8aHleCVMgbtDRUrQjTaOpQxnciwbXPDjmY29ucNY&state=T2t0YQ%3D%3D - Brave — 🛛 🔿							
0	localhost/joomla/?code=TCA8aH	IleCVMgbtDRUrQjTaOpQxnciwbXPDjmY29ucNY&state=T2t0YQ%3D%3D	🦁	٨				
TEST SUCCESSFUL								
	Hello, and an and an and an an							
	<u>Next Steps :</u>							
	In Order to perform SSO successfully you need to atleast map the attribute containing Email-Id recieved from the OAuth Provider with default joomla Email attribute in the Step 3.							
	ATTRIBUTES RECEIVED:							
	ATTRIBUTE NAME	ATTRIBUTE VALUE						
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• Now go to the **Step 3 [Attribute Mapping]** tab and Select the attribute name for **Email and Username** from dropdown. Then click on **Finish Configuration** button.

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Components									
嶜 Users		Step 2 [Client ID & Secret]							
🔑 System		Step 3 [Attribute Mapping]	Test Configuration	Test Configuration					
主 Help		Step 4 (SSO URL)							
		Import / Export	Note : Click the "lest Configurat proceed to configure the attribu	ion" button to confirm the attributes ob te mapping below. This ensures that the	otained fron e mapping i	n the OAuth Provide s based on accurate	r. Once the test c and validated da	onfiguration is su ata from the OAut	uccesstul, th Provider.
		Premium Features	*Email Attribute:	Click on Test Configuration but	tton above i	n order to get the a	ttributes		
			*Username Attribute:	Click on Test Configuration but	tton above i	n order to get the a	ttributes		
		Delete Application						Finist	Configuration

4. Setup Login/SSO URL

• Now go to **Step 4 [SSO URL]** tab, here copy the **Login/SSO URL** and add it to your Site by following the given steps.

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⊞ Menus > 🔡	Step 1 [Redirect URI]	OAuth / Open	ID Configuration ⁽¹⁾ Guide
🔹 Components 🗸 🔛			
Banners >	Step 2 [Client ID & Secret]		
Contacts >	Step 3 [Attribute Mapping]	Note: You can use	the below SSO URL to perform the SSO in your Joomla Site.
miniOrange OAuth Client 🗸 🗸	Step 4 (SSO URL)	Login / SSO URL:	41
Configure OAuth			
User Mapping	Import / Export		
Advance Setting	Configuration	Steps to Cre	ate a Login button
Upgrade Plans	Premium Features 👑		
News Feeds		SIEP 1:	Navigate to Module Manager -Go to Extensions > Site Modules from the top menu in the administrator area.
Smart Search >	Delete Application	STEP 2:	Locate and Edit the Login Module- Look for the "Login" module in the list of modules. Click on its title to edit
Tags			it.
₩ Users > #		STEP 3:	Adjust Module Position- Check the position where the login module is displayed. Note this position as it will
System			help you understand where the button needs to be placed.
1 Help		STEP 4:	Add Custom HTML Module for the Button-In the Joomla admin, go to "Extensions" > "Modules" > "New" > "Custom HTML".
		STEP 5:	Configure the Custom HTML Module-In the "Custom HTML" module settings:
		STEP 6:	Set the title to a relevant name-Add your button HTML code in the module's content section.
		STEP 7:	Set the Module Position- Place this Custom HTML module in the same position as the login module or adjacent to it. Choose the appropriate module position where you want the button to appear.
		STEP 8:	Assign Module to Menu Items - Configure the module assignment settings if needed to display the button on specific pages or menu items.
		STEP 9:	Save Changes - Save the Custom HTML module settings.
		STEP 10:	Check the Frontend - Visit the frontend of your Joomla website to verify that the button appears near the login button as intended.

• Now logout and go to your Joomla site's pages where you have added this link. You will see a login link where you placed that button. Click on this button to perform SSO.

5. Configure Group/Role Mapping

• Go to **Manifest** tab and find **groupMembershipClaims** and changes it's value to "All" and click on the **save** button.

All services > Azure Active Director OAuth Server M	IOverview > OAuth Server Inifest 🖉 …	×
₽ Search	🔜 Save 🔀 Discard 👎 Upload 🚽 Download 🛛 🖗 Got feedback?	
Overview	The editor below allows you to undate this application by directly modifying its ISON representation. For more details, see: Inderstanding the Azure Active Directory application manifest.	
📣 Quickstart	The canon delow another pour or appared and opportunition by an every montrying his source expressionation in their actual see on activity appared on the mean set of the second	
🚀 Integration assistant	1 { 2 "id": "bdd37cff-c5fc-4758-b69a-a5dc7909c7a9", 3 "acceptMannedClaims": null.	
Manage	4 "accessTokenAcceptedVersion": 2,	
Branding & properties	<pre>5 "addIns": [], 6 "allowPublicClient": null,</pre>	
Authentication	7 "appId": "c4f6a478-e664-47e2-90da-b8f513d32ecd", 8 "annRoles": [].	
📍 Certificates & secrets	9 "oauth2AllowUrlPathMatching": false,	
Token configuration	10 "createdDateTime": "2023-06-16T06:00:302", 11 "description": null,	
API permissions	12 "certification": null,	
Expose an API	 13 In San PolyMurchSoft Status : http:// 14 "groupMembershipClaims": "All", 	
A Owners	<pre>15 "identifierUris": [], 16 "informationalUrls": {</pre>	
🔟 Manifest	17 "termsOfService": null, 18 "support": null,	
Support + Troubleshooting	19 "privacy": null, 20 "marketing": null	
C Troubleshooting	21 },	
	<pre>22 "keyCredentials": [],</pre>	
New support request	23 "knownClientApplications": [],	
	24 "logoUrl": null,	
	25 "logoutUrl": null,	
	Zb name:: OAUTN Server,	
	27 "notes": null,	

• Now go to the User Attribute Mapping tab in Joomla OAuth CLient plugin, and click on Group/Roles tab from the left hand bar. Here, you can configure the 'Group Attribute Names' field in order to configure Advanced Group/Role Mapping. Then click on the Save Group Mapping button.

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	Basic Attribute's Profile Attribute's 🙀 Field Attribute's 🙀	Group Mapping ®	p Mapping section below in order to configure Advanced Group/Role Mapping.)				
Help	Groups / Roles 👑	Select default group for the new users:	testGroup1 ~				
	Aditional Settings 👑	Group Attribute Names:	Enter the attribute Name in which groups are coming				
		Group Name in Joomla	Group/Role Name in the Configured App				
		Public	Semi-colon(;) separated Group/Role value for Public				
		Registered	Semi-colon(;) separated Group/Role value for Registered				
		Author	Semi-colon() separated Group/Role value for Author				
		Publisher	Semi-colon() separated Group/Role value for Publisher				
		Manager	Semi-colon(;) separated Group/Role value for Manager				
		Administrator	Semi-colon(;) separated Group/Role value for Administrator				
		Guest testGroup1	Semi-colon() separated Group/Role value for Guest				
			Sive Group Mapping				

In this guide, you have successfully configured Joomla Azure AD Single Sign-On (SSO) by configuring Azure AD as OAuth Provider and Joomla as OAuth Client using our Joomla OAuth Client plugin. This solution ensures that you are ready to roll out secure access to your Joomla site using Azure AD login credentials within minutes.