

Registering KICS with Microsoft Entra ID (Azure AD)

In KICS 3.8.0, direct support was added for authentication using Microsoft Entra ID / Azure AD.

KICS utilizes SAML to authenticate with Microsoft Entra ID. To set up authentication, provisioning will need to be performed in both KICS and the Azure AD Portal.

Setting up Azure AD for KICS

Open the Azure AD Portal and select App Registrations on the left hand side

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Home >					
Parklane Sys Azure Active Directory	stems Overview				×
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🗙 Diagnose and solve prob	olems Overview Mor	nitoring Properties Recommendations	Tutorials		
Manage	Search your te	enant			
🚨 Users					
A Groups	Basic information				
External Identities	Name	Parklane Systems	Users	5	
and administrators	Topant ID	02074702-0240-4460-b2d9-2202161b4020	Groups	5	
Administrative units	renant to	22074782 8348 4400 0300 320210104939	Gloups	5	
A Delegated admin partner	Primary domain	parklanesystems.onmicrosoft.com	Applications	1	
Enterprise applications	License	Azure AD Free	Devices	0	
Devices	Alerts				
App registrations					

Select New Registration

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Specify a name for the application such as **Parklane KICS**.

We will not configure the **Redirect URI** at this point.

Click Register

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Hom	ne > Parklane Systems A	App registrations >							
Re	gister an appli	cation							\times
* Na	ame								
The	user-facing display name fo	r this application (this can be changed later).							
Par	klane KICS					~			
Sup	ported account types								
Who	can use this application or	access this API?							
\odot	Accounts in this organization	onal directory only (Parklane Systems only - Single tenant)							
0	Accounts in any organization	onal directory (Any Microsoft Entra ID tenant - Multitenant)							
0	Accounts in any organization Xbox)	onal directory (Any Microsoft Entra ID tenant - Multitenant) and personal Mi	crosoft accour	nts (e.g.	Skype,				
0	Personal Microsoft account	is only							
Help	me choose								
Red	irect URI (optional)								
We'll chan	l return the authentication i ged later, but a value is rec	esponse to this URI after successfully authenticating the user. Providing this uired for most authentication scenarios.	now is option	al and in	can be				
Sel	ect a platform	← e.g. https://example.com/auth							
Regi	ster an app you're working	on here. Integrate gallery apps and other apps from outside your organizati	on by adding	from En	terprise	applica	ations.		-
By pi	roceeding, you agree to the	e Microsoft Platform Policies 🗗							
		_							
F	Register								

The Parklane KICS App Registration will now appear on the Azure AD Console

We will need the two identifiers from the Azure AD console to prepare KICS for authentication:

- The Application (client) ID
- The Federation Metadata Document Endpoint URL



To Obtain the Application ID:

The **Application ID** is listed on the KICS Application Registration page under **Essentials**.

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Home > Parklane Systems A	p registrations > ☆ ··· ·							×	
Overview Quickstart	Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for develop	er). →							*
Manage Branding & properties Authentication Certificates & secrets	Display name : Parklane KICS Client crede Application (client) ID : c8e3c893-6a50-44e1-b820-c0a67f518d5a Redirect UR Object ID : b374048c-3f52-455c-9b23-f139f666e23e Application Directory (tranatt) ID : b94290db-7b5e-43e1-8e43-cb1cdc7f14e1 Managed a Supported account turge : werspiration cplu cplus cplus	entials Ils ID URI pplicatio	n in I	: <u>Add</u> : <u>Add</u> : <u>Add</u> : <u>Park</u>	<u>a certii</u> <u>a Redii</u> an App lane Kli	icate or ect URI ilication	ind URI		
 Token configuration API permissions Expose an API 	Get Started Documentation								

Make note of the Application ID. You will require this during Step 1 of setting up KICS.

To Obtain the Federation Metadata URL:

The **Federation Metadata Document** URL is listed on the KICS Application Registration page under **Endpoints**.

	Microsoft Azure	₽ Search r	resources, services, and docs (G+/)		\sum	F	¢	٢	0	ন্দ	admin@parklanesystem. PARKLANE SYSTEMS (PARKLANE	. 0
Hor	ne > Parklane Systems A	pp registrat	ions >										
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6 3	Quickstart												
*	Integration assistant		↑ Essentials										
Mar	nage		Display name	: Parklane KICS	Client crede	ntials		: Add a	a certifi	cate or	secret		. 1
	Branding & properties		Application (client) ID	: c8e3c893-6a50-44e1-b820-c0a67f518d5a	Redirect UR	ls		: Add a	a Redin	ect URI			
Э	Authentication		Object ID	: b374048c-3f52-455c-9b23-f139f666e23e	Application	ID URI		: <u>Add</u> ;	an App	lication	ID URI		
•	Cortificator & corrotr		Directory (tenant) ID	: b94290db-7b5e-43e1-8e43-cb1cdc7f14e1	Managed a	pplication	n in I	: Parkla	ane KIC	S			
	certificates & secrets		Supported account type	es : My organization only									
	Token configuration												
-9-	API permissions		Get Started Docum	entation									
4	Expose an API												- 1

Make note of the Federation Metadata Document URL. You will require this during Step 2 of setting up KICS.

https://graph.microsoft.com	D
Federation metadata document	
https://login.microsoftonline.com/b94290db-7b5e-43e1-8e43-cb1cdc7f14e1/federationmetadata/2007-06/federationmetadata.xml	D
WS-Federation sign-on endpoint	
https://login_microsoftonline_com/b0/200dh-7h5e-12e1-8e/2-ch1cdc7f1/e1/wsfed	ľħ

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KICS Step 1 - Preparing KICS for Azure AD

In KICS, go to System Settings > Authentication > SAML / ADFS

System Settings							Graham Mal	es 🚨	٥
General Information Authentication Regional Information	Authentication S The following settings defin Each Authentication metho below	ettings ne how users can od has its own pro	authenticate to KIC pperties you can assi	S. ign. Once the Authenti	cation Method is conf	igured, you can cha	ange the authentication	method	
Branding	Authentication Methods								
Auditing	General	Local	LDAP	SAML / ADFS	Group Import	User Import	Secondary Auth		
Email Configuration							1		11
Form Settings	To configure Federated S	Services, follow th	ne steps below.						
Self-Hosted	Step 1 - KICS Servic	e Provider (SP)	Settings						
External Forms	You will need to genera	ate a Service Pro	vider (SP) Certificate	o for KICS to communi	cate with your ADES	Server			
Parklane Integration	Click the Certificate A	ctions button to	generate a certificate).	uno mar your ror o				
SQL Export	KICS SP Certificate	Certificate Not (Senerated Cer	tificate Actions					
License	Requested Attributes	E Launch Attr	ibute Editor						
Log Files		Use Metada	ata URL (https://tn02	20.parklanesystems.c	om/kics/saml/metada	ta.php)			
	Application Identifier	O Use the foll	owing Application ID	:					
	Step 2 - Configure K	ICS for the ADF	S Identity Provider	r (IDP)					
	Specify your ADFS Se You can import your ID If neither option is avai	rver's Metadata U P's certificate an Iable, the IDP set	IRL Below. d URLS by querying tings can be specifie	the Metadata URL or ed manually	by uploading the Meta	adata XML file.			
	Metadata URL:	example: https://se	rvername/FederationMe	tadata/2007-06/Federation	Metadata.xml				
	Import IDP Settings		adata URL or 🕹 L	Jpload Metadata XML	. File				
	ADFS IDP Certificate	Certificate Not F	ound or Invalid	Certificate Actions					
	Entity ID / URL								
	Sign-On URL	example: https://se	rvername/adfs/services/	trust					
		example: https://se	rvername/adfs/ls/						
	Log-Out URL	example: https://se	rvername/adfs/ls/?wa=w	signout1.0					
	Addtional Options	 Automatical Automatical Display SAI 	ly Check IDP Metad ly Check IDP Metad ML diagnostic page o	ata Daily for new Certi ata Daily for new URL: during sign-in	ficates s				
	Step 3 - Save the ab	ove ADFS Setti	ngs						
				🛃 Save Char	nges				
	Step 4 - Create the F	Relaying Party T	rust on the ADFS :	Server					
	Log into your AD FS Management Console and create a Relaying Party Trust using the Metadata URL below. You can either use the Metadata URL, or download the Metadata XML file								
	Metadata URL ACS URL	https://tn0220.p https://tn0220.p	arklanesystems.com arklanesystems.com	/kics/saml/metadata.p /kics/saml/index.php?/	<u>hp</u> acs				
	Once the Relaving Par	tv Trust is create	d. add two Claim Ru	les to the Trust	010				
	Additional Actions	E Display Tra	nsform and name t	this rule Send Account	nt Attributes				
		Display Tra	nsform and name t	mis rule Transform UI	PN Attribute				

KICS Step 1.1 - Generate SP Certificate

Under Step 1, click Certificate Actions beside the KICS SP Certificate option

KICS SP Certificate Certificate Not Generated

A Dialog for the Service Provider Certificate will appear

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A Service Provider Certificate has not yet been generated	
₩ Generate New Certificate	
	Close

Click Generate New Certificate. Certificate Generation will take a couple seconds.

Service Provider Certificate								
Status:	Installed	stalled						
CN:	SP - pkwd1	P - pkwd1						
Expiry	2020-06-11							
Fingerprint	8a9f460def422	264cb48075c7f32e8a77	797d17c4					
Fingerprint	Fingerprint 48cfe9cf9dafde67f3b4fcb7ee6a6c46b92be24f7ebec208c9470c52cffc2437							
University of the second secon								

Certificate Generated Successfully. Please review and download for your IDP

Click Close

KICS Step 1.2 - Setting up the Federated Services Attributes

You will need to set up KICS to use the Attributes that Azure provides during the sign-in process.

Launch the Attribute Editor

Requested Attributes

E Launch Attribute Editor

The Attribute Editor will display

etting	Value	
lame ID Format	urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified	
ccount Name Attribute	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/upn	
account Serial Attribute*	http://schemas.microsoft.com/ws/2008/06/identity/claims/primarysid	
mail Address Attribute	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddres-	
irst Name Attribute	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname	
ast Name Attribute	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname	
iroup Membership Attribute	http://schemas.xmlsoap.org/claims/Group	

KICS comes preconfigured for on-premises attributes. Please update the attributes listed below in red:



Attribute	Value
Name ID Format	urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified
Account Name	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress
Account Serial	http://schemas.microsoft.com/identity/claims/objectidentifier
Email Address	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress
First Name	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname
Last Name	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname
Group Membership	http://schemas.microsoft.com/ws/2008/06/identity/claims/groups

Click Save Changes

KICS Step 1.3 - Setting the Azure Application ID

Continuing down the page, you will see the configuration parameter for the KICS application Identifier

Select Use the following Application ID

Paste in the Application ID you obtained from the Azure Console



KICS Step 2 - Configuring Azure as the identity provider

On the **System Settings > Authentication > SAML** page, **Step 2** focuses on setting up the URLS and Certificates for your Azure Environment. KICS can import this data from the Federation Metadata URL copied from your KICS App registration page above.

Paste the Federation Metadata Document Endpoint URL you obtained from the Azure Console into the **Metadata URL** field and then click **Query Metadata URL**. The Azure URLs and Certificates will be imported.

Step 2 - Configure KICS for the ADFS Identity Provider (IDP)							
Specify your ADFS Se You can import your II If neither option is ava	Specify your ADFS Server's Metadata URL Below. You can import your IDP's certificate and URLS by querying the Metadata URL or by uploading the Metadata XML file. If neither option is available, the IDP settings can be specified manually						
Metadata URL:	https://login.microsoftonline.com/b94290db-7b5e-43e1-8e43-cb1cdc example: https://servername/FederationMetadata/2007-06/FederationMetadata.xml						
Import IDP Settings	Query Metadata URL or Upload Metadata XML File						

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You will see the Azure IDP Certificate and Endpoint URLS configured in KICS.

1 The IDP Me	tadata has been imported, please confirm the server URLS and Certificates below
ADFS IDP Certificate	Certificate Installed 🔹 Certificate Actions
Entity ID / URL	https://sts.windows.net/b94290db-7b5e-43e1-8e43-cb1cdc7f14e1/ example: https://servername/adfs/services/trust
Sign-On URL	https://login.microsoftonline.com/b94290db-7b5e-43e1-8e43-cb1cdc example: https://servername/adfs/ls/
Log-Out URL	https://login.microsoftonline.com/b94290db-7b5e-43e1-8e43-cb1cdc example: https://servername/adfs/ls/?wa=wsignout1.0

Most SAML server certificates will last for 1 year. You have the option to configure KICS to query the Metadata once a day to check for certificate updates and URLS.

The **Display SAML Diagnostic Page during sign-in** option allows you to review the SAML attributes returned from Azure and make sure they line up during the authentication process. It's highly recommended to enable this feature during the initial testing of the authentication component.

Addtional Options	 Automatically Check IDP Metadata Daily for new Certificates Automatically Check IDP Metadata Daily for new URLs Distribution CAMM discrete series data in the series of the s
	Display SAME diagnostic page during sign-in

Click Save to save the current settings into KICS

Setting up URLS and Attributes for KICS within Azure

KICS can now send authentication requests to Azure, however we need to configure Azure to provide the proper attributes and send clients back to the proper URL.

On the KICS System Settings > Authentication > SAML page, make note of the ACS and SLS URLS.

Step 4 - Create the Relaying Party Trust on the ADFS Server						
Log into your AD FS Management Console and create a Relaying Party Trust using the Metadata URL below. You can either use the Metadata URL, or download the Metadata XML file						
Metadata URL	https://tn0220.parklanesystems.com/kics/saml/metadata.php					
ACS URL	https://tn0220.parklanesystems.com/kics/saml/index.php?acs					
SLS URL	https://tn0220.parklanesystems.com/kics/saml/index.php?sls					
Once the Relaving Pa	rty Trust is created, add two Claim Rules to the Trust					
once the readying r a	right and the old in the first					

Open the **Azure AD Portal > App Registrations > Parklane KICS** configuration page.



	${\cal P}$ Search resources, services, and docs (C	3+/)		ት 🖓 🐵 🖗 ጽ	admin@parklanesystem
Home > Parklane Systems	φp registrations >				×
Search Overview Quickstart	Got a second? We would	 Preview features d love your feedback on Microsoft identity platform (previou 	sly Azure AD for developer). $ ightarrow$		
 Integration assistant Manage 	∧ Essentials Display name	: Parklane KICS	Client credentials	: Add a certificate or secret	
 Branding & properties Authentication Certificates & secrets 	Application (client) ID Object ID Directory (tenant) ID Supported account type:	: c8e3c893-6a50-44e1-b820-c0a67f518d5a : b374048c-3f52-455c-9b23-f139f666e23e : b94290db-7b5e-43e1-8e43-cb1cdc7f14e1	Redirect URIs Application ID URI Managed application in l	: Add a Redirect URI : Add an Application ID URI : Parklane KICS	L
 Token configuration API permissions Expose an API 	Get Started Docume	entation			

Select Add a Redirect URI

The Authentication page will open.

≡ Microsoft Azure 🔎 Searc	rch resources, services, and docs (G+/) 🗵 🕞 🖓 🔗 🔗 🖈 admin@parklanes	system 🔕
Home > Parklane Systems App registr	trations > Parklane KICS	
Parklane KICS Aut	thentication 🖉 …	\times
₽ Search «	₽ Got feedback?	
Overview		*
📣 Quickstart	Platform configurations	
🚀 Integration assistant	Depending on the platform or device this application is targeting, additional configuration may be required such as redirect URIs, specific authentication settings, or fields specific to the platform.	
Manage	+ Add a platform	
🔤 Branding & properties		
Authentication	Web Quickstart Docs@ 📋	
📍 Certificates & secrets	Redirect URIs	
Token configuration	The URIs we will accept as destinations when returning authentication responses (tokens) after successfully authenticating or signing out users. The redirect	
 API permissions 	restrictions g [*]	
🙆 Expose an API	Add URI	
App roles		
A Owners		
🕹 Roles and administrators	Front-channel logout URL	
Manifest	This is where we send a request to have the application clear the user's session data. This is required for single sign-out to work correctly.	
Support + Troubleshooting	e.g. https://example.com/logout	

Under Web - Redirect URIs, select add URI and paste in the ACS URL obtained from KICS.

Under Front-channel logout URL, paste the SLS URL obtained from KICS.



Web	Quickstart	Docs 🗗	Ŵ
Redirect URIs			
The URIs we will accept as destinations when returning authentication responses (tokens) after successfully authenticating URI you send in the request to the login server should match one listed here. Also referred to as reply URLs. Learn more ab restrictions c	or signing out user bout Redirect URIs a	s. The redir Ind their	ect
https://tn0220.parklanesystems.com/kics/saml/index.php?acs		~	Ŵ
Add URI			
Front-channel logout URL			
This is where we send a request to have the application clear the user's session data. This is required for single sign-out to work correctly.			
https://tn0220.parklanesystems.com/kics/saml/index.php?sls			
mplicit grant and hybrid flows			
Request a token directly from the authorization endpoint. If the application has a single-page architecture (SPA) and			
Save Discard			

Click Save

Next, we will set up the Attribute Tokens for KICS. KICS accepts the default tokens that Azure AD provides, however if you wish to pass Group Membership, you will need to configure the Group Token Attribute.

On the left side of the Azure Portal, select Token Configuration

	Microsoft Azure	ク Search	resources, services, and docs	(G+/)			Þ.	Ð	Ø		0	ন্দ	admin@parklanesystem PARKLANE SYSTEMS (PARKLANE	9
Hom	e > Parklane KICS													
111	Parklane KICS	5 Toke	en configuration	\$									×	18 13
٩	Search	«	R Got feedback?											
眼	Overview		Optional claims											
# }	Quickstart		Optional claims are used to	o configure additional infor	mation which is returned in one or	more tokens. Learn	more 🗗							
*	ntegration assistant		+ Add optional claim	+ Add groups claim										
Man	age													
	Branding & properties		Claim 1	Description					1	oken t	type 1	` 1	Ontional settings	
Э	Authentication		No results	Description						onen	spe .	¥	optional sectings	
1	Certificates & secrets		Ho results.											
111	Token configuration													

Select Add Groups Claim

The Edit Groups Claim dialog will appear on the right side of the screen.

Choose which groups would like to pass into KICS. If you're unsure, select All Groups



	laim	×
i Adding the groups cl	aim applies to Access, ID, and SAML token types. Learn more 🗗	
Select group types to inc Security groups Directory roles	clude in Access, ID, and SAML tokens.	
All groups (includes)	3 group types: security groups, directory roles, and distribution list	s)
	umit on the number of groups a token can emit	
avoid exceeding the	ties by type	
avoid exceeding the Customize token proper	ties by type	
Customize token proper V ID V Access	ties by type	

Click Add

Configure KICS to Authenticate with Azure

At this point, the provisioning of SAML in KICS and Azure is complete. To configure KICS to send login requests to Azure, we need to change the primary login method in KICS.

In KICS, go to the System Settings - Authentication - General page



Under the Primary Authentication section, click Change



Change Authentication Method
Select the Authentication Method you wish to use for KICS below. If you are using an authentication service (such as LDAP or SAML), please configure the service before changing this option
Current Authentication Method: Internal
New Authentication Method: SAML / ADFS V
Please be aware of the following changes:
 You are about to change from Local Authentication to Directory Authentication Any accounts that were not created through the Directory will be considered "unlinked accounts". When a user signs in, KICS searches for a Linked Account. If no account exists, KICS searches for a matching account name or matching email. If neither are found, a new account is created. If this authentication change causes you to become locked out, you can contact Parklane Systems Support for emergency access.
😮 Cancel Changes 🕓 Change Authentication Method

Select SAML/ADFS and then click Change Authentication Method

Primary Authentication
Primary Authentication is used by employees and managers within your organization. Depending on the size of your organization, you can choose to use Local Authentication have KICS manage the user accounts, or you can select Directory Authentication and have KICS utilizate your organization's directory server for account management and authentication
Primary Authentication Method: SAML / ADFS 📰 Change

The primary authentication method will now be listed as **SAML/ADFS**.

The login page will now show a login button to redirect users to the Azure AD login page.

pạrklane	Public User (not Logged in)
Welcome to KICS To select and complete a form, please click the button below.	Employee Login For Parklane Employees, sign into KICS by clicking the Login button below.
Show Available Forms	Login



Importing Groups into KICS from Azure

In KICS, we can import a list of groups that are exported from the Azure AD console. These groups can be assigned role permissions in KICS.

When users authenticate, they can be automatically granted permissions to templates and functions within KICS if they are a member of the appropriate group.

From the Azure AD Console, open the Groups Panel

	resources, services, and docs (G+/)	Σ	G 🖉 🕸 🛛 R	admin@parklanesystem PARKLANE SYSTEMS (PARKLANE
Home > Parklane Systems Groups >				
Barklane Systems - Azure Active Directory				×
«	🗚 New group 🛓 Download groups 💍 Refresh 🔞 Manage	view \vee 🛛 🛍 Delete 🛛 🖗 Got feedba	ck?	
All groups				
Deleted groups	,	× Y Add filter		
🗙 Diagnose and solve problems	Search mode Contains			
Settings	1 group found			
log General	Name 11	Object Id	Group type	Membership type E
Expiration				
Naming policy	KUCS Users	6a23200d-0217-4857-9437-084f69659d8d	Security	Assigned
Activity				

Select Download Groups.

File name * exportGroup_2023-8-28 Start	ups download \times
exportGroup_2023-8-28 Start	ne *
Start	Group_2023-8-28
	rt . c
Learn more about download groups	ore about download groups

Click **Start**. Azure will generate an export of Azure AD groups as a CSV file.

In KICS, go to the System Settings - Authentication - Group Import page

Select Microsoft Entra (Azure Active Directory) via Group Download



General Information	Authenticatio	n Settings								
Authentication	The following settings Each Authentication m	define how users ca	n authenticate to KI	CS.	ication Method is confi	nured you can che	nne the authentication method helow	W.		
Regional Information	Authoritication Math	- d-	openies you can as	agn. once mer annen	cador metrod is com	gurea, you can chu	nge ale daalendedoor mealoù belor			
Branding	Authentication Meth	oas								
Auditing	General	Local	LDAP	SAML / ADFS	Group Import	User Import	Secondary Auth			
Email Configuration	Bulk Import Group If you are using Dire	s ectory Authentication.	groups can be bulk	imported via LDAP. or	via a CSV Import below	<i>w.</i>				
Form Settings	For small group imp	orts, you can add gro	oups via the Role M	anager.						
Self-Hosted	Active Directory	via Powershell Scrip								
External Forms	Microsoft Entra (Azure Active Directo	ry) via Group Down	load						
Parklane Integration	To download groups	To download groups, visit the Microsoft Entra / Azure Portal and access the Azure AD Manager.								
SQL Export	On the Groups pan Paste or Drag the C	el, select Download SV File into the Text	groups Box below. The first	line of the CSV must o	ontain the field names					
License										
Log Files										
	÷									
	11									

Paste the contents of the CSV file into the text box.

You have the option to perform a **dry run** of the import to ensure the import will be successful without making changes.

Click Import

You will see a status result of the import

Line Number	Import Success	Group Name	Import Details			
1	Yes	KICS Users	Group not found, creating			

If this was a dry run and everything looks successful, uncheck the **dry run** option and re-run the import to add the groups to KICS.

The Group Import is now successful. If you access the Role Manager, you can now search for and see the groups you imported.

parl	klane,	Role Manager			Graham Males	2	٥
0	Information	Your KICS Roles are listed below. To edit a role, click on the Role Name; or select Add Role.				O Ad	ld Role
0	Fill out a Form	Show 15 v entries Role Name	Role Type	Search:	KICS	Act	tions 🔶
	Retrieve a Form	KICS Users	Directory Group			2	Edit
	Generate Reports	Showing 1 to 1 of 1 entries (filtered from 109 total entries)			Previous	1	Next
	KICS Administration						
	Role Manager						