As part of Altocapa signup, permission need to be granted for cloud monitoring. These permissions can be setup at any time during or after signup and the following instructions are also made available during signup.

Azure monitoring permission setup

In order for Altocapa to retrieve the information and metrics necessary to make cost saving recomendations, the following limited permission needs to be granted to the Altocapa application in the Azure subscription/s that will be monitored.

On initial sign-up Altocapa allows for the details of just one Azure Tenant to be added.

The <u>Monitoring Reader</u> role will need to be assigned by someone with Active Directory Application Administrator rights in your organisation. Global Administrators will have these rights by default.

Step by Step Instructions

1. Register the Altocapa Application in Azure Active Directory

• Log in to the Azure portal and open 'Azure Active Directory > App Registrations > New Registration' and fill in the details as per screen shot

Home > Default Directory >
Register an application ×
* Name
The user-facing display name for this application (this can be changed later).
Altocapa Monitoring 🗸
Supported account types
Who can use this application or access this API?
 Accounts in this organizational directory only (Default Directory only - Single tenant)
 Accounts in any organizational directory (Any Azure AD directory - Multitenant)
O Accounts in any organizational directory (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.
Web <pre>e.g. https://example.com/auth</pre>
Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from Enterprise applications.
By proceeding, you agree to the Microsoft Platform Policies 🔄
Register

Click 'Register'

Image Overview Image Science Science Altocapa Monitoring Image Display name : Altocapa Monitoring Image Display name : Altocapa Monitoring Authentication Object ID : Scientials Image Display name : Altocapa Monitoring Authentication Object ID : Scientials Image Display name : Altocapa Monitoring Certificates & secrets Directory (tenant) ID : Scientials Image Display name : Add a certificate or secret Refirect URIs : Add a certificate or secret Redirect URIs : Add a napplication ID URI App roles Managed application in local directory : Altocapa Monitoring : Add an Application ID URI Manage application ID URI : Add an Application ID URI : Add an Application ID URI : Add an Application ID URI Manage application ID URI : Add an application ID URI : Add an application ID URI : Add an Application ID URI Managet application ID URI : Add an App	P ∫earch (Ctrl+/) ≪	💼 Delete 🖶 Endpoints 🐻 Preview fe	atures		
Integration assistant	Overview Quickstart	Got a second? We would love your feedbau developer).	ck on Microsoft identity platform (previously Azure AD for	<i>→</i>	
Display name E Addcapa Monitoring Image: Branding Application (client) ID : S5ce626f-> Image: Authentication Object ID : S5ce626f-> Image: Certificates & secrets Directory (tenant) ID : Secrets Image: Certificates & secrets Directory (tenant) ID : Secrets Image: Certificates & secrets Directory (tenant) ID : Secrets Image: Certificate & secrets Directory (tenant) ID : Add a certificate or secret Image: API permissions Redirect URIs : Add a Redirect URI Image: App roles Redirect URIs : Add a Application ID URI Image: App roles Managed application in local directory : Altocapa Monitoring Image: App registrations Preview Image: App registrations (Legacy)? Learn more * Image: App registrations Preview Image: Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure AD Graph. We will continue to provide technical support Authentication Library (MSAL) and Microsoft Graph. Learn more * Image: Provides hooting Image: Starting June 30th, 2020 we will no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. Learn more *	💉 Integration assistant Manage	∧ Essentials			
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	P Troubleshooting	and security updates but we will no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. Learn more			
2 New support request	New support request				

- Make a note of the Application (Client) ID of the newly created registration
- Also make a note of the Directory (tenant) ID

2. Generate a client secret

• Click 'Add a certificate or secret' and then click '+ New client secret'

Home > Default Directory > Altocapa Mo	onitoring al Cert	Add a client secret		×
1	9100.	Description	Altocapa monitoring secret	
₽ Search (Ctrl+/) «	💙 Got	Expires	24 months	~
Overview	Credentia			
🗳 Quickstart	recomment			
💉 Integration assistant				
Manage	Certific			
Branding	Certificate			
Authentication	-			
📍 Certificates & secrets	个 Uple			
Token configuration	Thumb			
 API permissions 	No certific			
Expose an API				
🔢 App roles				
A Owners	Client s			
8 Roles and administrators Preview	A secret s			
Manifest	as appiroa			
Support + Troubleshooting	+ New			
Troubleshooting	Descrip			
New support request	No client			
		Add Cancel		

- Fill in details and click 'Add'
- Make a note of the newly created secret value
- This secret together with the client id in the previous step will be required to grant access to Altocapa to access your system.

- 3. Add this application to the Monitoring Reader role for the subscription(s) that should be monitored.
- Open the Subscription page as below and click each subscription to Grant access to each subscription to be monitored as per following steps

Home Sub Default	Scriptions & ··· Directory					×		
View I access Showi My ro	Add Manage Policies View list of subscriptions for which you have role-based access control (RBAC) permissions to manage Azure resources. To view subscriptions for which you have billing access, click here Showing subscriptions in Default Directory directory. Don't see a subscription? Switch directories Murple, O							
8 sel	lected pply ing 3 of 9 subscriptions	how only subscriptions selected in the global s	3 selected			~		
ρs	earch							
	Subscription name \uparrow_\downarrow	Subscription ID \uparrow_{\downarrow}	My role ↑↓	Current cost	Status ↑↓			
	Production Subscription	60 3-47 000 0	Account admin	£11,112.76	Active			
	Dev Subscription	6700-00	Account admin	£7,131.22	Active			
•	UAT Subscription	60% 30 - 90% - 5	Account admin	£5,007.33	Active			

- Click 'Access control (IAM) > Role Assignments' and click 'Add'
- Allocate the newly created Azure AD application to the built-in Monitoring Reader role

Home > Subscriptions > Free Trial			Add role assignment	>
8 Dev Subscriptio	n	Access control (IAM)	5	
 Subscription 			Role ()	
P Search (Ctrl+/)	«	🕂 Add 🞍 Download role assignments 📰 Edit columns 🖒 Refres	h Monitoring Reader ③	~
† Overview			Assign access to ③	
Activity log		Check access Role assignments Roles Roles (Classic) Den	y assig User, group, or service principal	\sim
Access control (IAM)		Number of role assignments for this subscription	Select ()	
 Taos 	ъ.		altocapa	
 A Disease and rates exchange 		1 2000	Altocapa Monitoring	
Oraginose and some problems		Search by name or email Type : All Role : All Scope : .	All sco	
 Security 				
Events		1 items (1 Service Principals)		
Cost Management		Name Type Role	Selected members:	
\$ Cost analysis		Monitoring Reader	Alterana Monitorina	
Cost alerts		Altocapa Monitorin App Monitorin	g Read	Remove
③ Budgets				
Advisor recommendations				
Billing			Save Discard	

Optionally repeat step 3. and this time select the Billing Reader role so in future Altocapa can consolidate reservation recommendations