- Register an Application in the Azure Portal
- Add Azure VMs/VM Scale Sets to Federator.ai

ProphetStor Federator.ai uses Azure Monitor APIs and Azure APIs to collect metrics/metadata from Azure Monitor, Virtual Machines, and Virtual Machine Scale Sets. In order to obtain correct credentials for Federator.ai, you have to create an Azure app registration for Federator.ai.

This document provides step-by-step instructions in creating an Azure app registration in the Azure portal and completing the configuration setup to add Azure VMs/VM Scale Sets clusters to Federator.ai.

## Register an Application in the Azure Portal

- 1. Sign in to the Azure Portal.
- 2. Select Azure Active Directory
- 3. Under Manage and select App Registrations. Click Add > App Registration.

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<ul> <li>Overview</li> <li>Preview features</li> </ul>	+ Add ~ 🛞 Manage te User Group	enants 🕜 What's new	v Preview featu	ures Redbar our Identity and Access Ma	:k? ∨ inagement needs. Try the	new Microsoft Entra admin center	<u>rl</u>
Diagnose and solve problems  Anage Users	Enterprise application	Properties Reco	mmendations Tuto	prials			
<ul> <li>Groups</li> <li>External Identities</li> </ul>	Basic information			lisers	12		
<ul> <li>Roles and administrators</li> <li>Administrative units</li> <li>Delegated admin partners</li> </ul>	Tenant ID			Groups	6		
Enterprise applications Devices	License			Devices	0		
App registrations	Alerts						

4. Enter a display name federatorai-integration or a name of your own choosing, and select Accounts in this organizational directory only for Supported account types.

Home > App registrations > Register an application ···· ×	
* Name The user-facing display name for this application (this can be changed later).	
federatorai-integration 🗸	
Supported account types	
Who can use this application or access this API?	
Accounts in this organizational directory only ( only - Single tenant)	
Accounts in any organizational directory (Any Azure AD directory - Multitenant)	
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.	
Select a platform	
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	

## 5. Click **Register** to create an app registration.

6. Copy Application (client) ID and Directory (tenant) ID for configuring Federator.ai later.

federatoral-inte	gration 🖈 …		
<sup>O</sup> Search	« 间 Delete 🜐 Endpoints 🐼 Preview features		
Overview	Got a second? We would love your feedback on Microsoft ider	stity platform (previously Azure AD for developer). $ ightarrow$	
Quickstart			
Integration assistant	∧ Essentials		
anage	Display name	Client credentials	
Branding & properties	Application (client) ID	Redirect URIs	
Authentication		Add a Redirect URI	
Certificates & secrets	Object ID	Application ID URI Add an Application ID URI	
Token configuration	Directory (tenant) ID	Managed application in local directory	
API permissions		federatorai-integration	
74 Permissions	Supported account types		

- 7. Add a new client secret for the application. Go to Manage > Certificates and secrets > New Client Secret.
  - a. Enter  ${\tt FederatoraiClientSecret}$  for the Description
  - b. Choose **Exipres** lifetime for FederatoraiClientSecret client secret.

Home > App registrations >	federatorai-integration	Add a client secret		×
🔶 federatorai-integrat	ion   Certificates & secrets 🛷 🐇			
•		Description	FederatoraiClientSecret	
✓ Search «	R Got feedback?	Expires	365 days (12 months)	$\sim$
Overview				
n Quickstart	Credentials enable confidential applications to identify themselves to the			
🚀 Integration assistant	scheme), For a higher rever of assurance, we recommend using a ceruin			
Manage	Application registration cartificator, correct and federated credentials			
Branding & properties	<ul> <li>Application registration certificates, seciets and redenated credentials</li> </ul>			
Authentication	Certificates (0) Client secrets (0) Federated credentials (0)			
📍 Certificates & secrets				
Token configuration	A secret string that the application uses to prove its identity when requ			
API permissions	+ New client secret			
Expose an API	Description Expires			
App roles	No client secrets have been created for this application.			
2 Owners				
& Roles and administrators				
III Manifest				
Support + Troubleshooting				
Troubleshooting				
New support request				
		Add Cancel		

- c. Click Add to create a new client secret.
- d. Copy and record Secret Value (Client Secret) for configuring Federator.ai later.

Note: Record the secret's value for use in Federator.ai. This secret value is never displayed again after you leave the certificates and secrets page.

Home > App registrations > federatorai-integrat	federatorai-integration tion   Certificates & secrets	\$			×			
	Rot feedback?							
Overview								
🝊 Quickstart	$\bigcirc$ Got a second to give us some feedback? $\rightarrow$				×			
🚀 Integration assistant		1	al		700			
Manage	Credentials enable confidential applications to i scheme). For a higher level of assurance, we rec	ommend using a cert	the authentication service when receiving to ificate (instead of a client secret) as a credent	kens at a web addressable location (using an HT ial.	IPS			
Branding & properties								
Authentication	Application registration certificates, secrets	Application registration certificates, secrets and federated credentials can be found in the tabs below.						
📍 Certificates & secrets								
Token configuration	Certificates (0) Client secrets (1) Fed	lerated credentials (	0)					
-> API permissions	A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.							
Expose an API								
App roles	<ul> <li>New client secret</li> </ul>							
A Owners	Description	Expires	Value 🛈	Secret ID				
Roles and administrators	FederatoraiClientSecret	6/14/2024			0			
🔟 Manifest								
Support + Troubleshooting								
Troubleshooting								
New support request								

- 8. Give read permission to federatorai-integration application
  - a. Navigate to Home > Subscriptions
  - b. Choose a subscription that you would like to integrate with Federator.ai and copy the Subscriptions ID for configuring Federator.ai later.

✓ Search     «       ♥ Overview     ▲       ■ Activity log     Subs       ♥ Access control (IAM)     Direct       ♥ Tags     Offer       Ø Diagnose and solve problems     Offer       ♥ Security     Parent       ✓ Events     Parent	Cancel subscription         ✓         Rename         →         Change           ssentials         -	directory R Feedback Subscription name : Current billing period : Currency : Status : Active	
Access control (IAM)     Direc       Tags     My n       Diagnose and solve problems     Offer       Security     Parent       Fevents     Fevents	tory : ole : Owner - : ID : t management group :	Current billing period : Currency : Status : Active	
F Events		Secure Score :	
+ Add 🗎 Manage Policies …	Subscription	Access control (IAM) ≪ + Add ↓ Download role assignments == Ed	☆ … lit columns 🕐 Refresh   × Remove   …
Sear Subscriptions == global filter My role == all	Overview     Activity log     Access control (IAM)	Add role assignment Add co-administrator Add co-administrator Add role assignment this subscription	Deny assignments Classic administrators
Status == <b>all</b> <sup>+</sup> <sub>∀</sub> Add filter	<ul> <li>Tags</li> <li>Diagnose and solve problems</li> <li>Security</li> <li>Events</li> </ul>	22 40 Search by name or email Assignment type : All Type : All Ro	D00 D10: All Scope : All scopes Group by

d. Select **Monitoring Reader** role, assign access to **User, group, or service principal**, and add federatorai-integration application that you just created to **Members**.

Home > Subscriptions > Access control (IAM) >								
Add role assi	gnment				$\times$			
Role Members	Review + assign							
Selected role	Monitoring Reader							
Assign access to	cess to Output User, group, or service principal Managed identity							
Members	+ Select members							
	Name	Object ID	Туре					
	federatorai-integration		App	Î				
Description	give read permission to Federator.ai							
Review + assign	Previous Next				주 Feedback			

e. Click **Review + assign** to assign permissions to federatorai-integration application

Azure Diagnostics must be enabled for ARM-deployed VMs to collect metrics

## Add Azure VMs/VM Scale Sets to Federator.ai

- 1. Go to Federator.ai UI. Choose Configuration > Clusters > Add Cluster.
- 2. Select Azure Monitor as Metrics Data Source.
- 3. Enter a cluster name
- 4. Paste your Azure Subscriptions ID, Directory (tenant) ID, Application (client) ID, and Secret Value (Client Secret) to the fields.

	Federator.	ai 🗉 Configurat	ion / Clusters					© 5m 🗸 🗸	<b>≜</b> ∎ ∎.
ക		Add Cluster							
۳.		* Cluster					•		
0		* Cluster Type	Kubernetes Cluster	VM Cluster					
		* Metrics Data Source	VMware vCenter 4	AWS CloudWatch 0	Google Cloud Operat	tions Suite (Stackdriver)	) 🟮 💿 Azure Monitor 🔒		
<i>б</i> о -		Subscriptions ID						0	
		Directory (tenant) ID						0	
44 I		Application (client) ID						Ø	
		Client Secret						0	
			Collect Historical Data						
		Resource Prediction Alert	Enabled Oisal	bled ()					
					Cancel	Test Connection	Coards VMs to Colort VM momb	Cause	
<b>.</b>					Cancer			and Save	
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5. Click Search VMs to Select VM members and add Azure VMs/VM Scale Sets to the cluster.



6. Click  $\ensuremath{\textit{Save}}$  to create a new Azure VM/VM Scale Set cluster.