



Se

Welcome to
SGNL

Systems of
Record

Adapters

Entities and
Relationships

Catalogs and
Templates for
Systems of
Record

Creating and
Managing
Catalogs

Systems of
Record
Templates

Ingesting
Entities from a
CSV File

[Creating and
Configuring an
Azure Active
Directory
System of
Record](#)

Creating and
Configuring an
Azure API
Management
System of
Record

Creating and
Configuring a

Creating and Configuring an Azure Active Directory System of Record

Prerequisites

- Azure AD Account with Administrative privileges to Register Apps and Consent to User/Group Read Access in the Microsoft Graph
- SGNL User Account with Admin privileges

Permissions Required

- SGNL firmly believes in the principle of least privilege, as such - only the access required to achieve your authorization use-cases should be granted.
- SGNL requires an App to be registered in the Azure AD Tenant to be synchronized that has read permissions. Depending on the objects needing to be synchronized, these permissions will vary:
 - **Users:** Requires the User.Read.All Permission (see below for configuration)
 - **Groups:** Requires the Group.Read.All Permission (see below for configuration)
 - **Applications:** Requires the Application.Read.All Permission (see below for configuration)
 - **Devices:** Requires the Device.Read.All Permission (see below for configuration)

ServiceNow
System of
Record

Creating and
Configuring a
Okta System of
Record

Creating and
Configuring a
Jira System of
Record

Creating and
Configuring a
Salesforce
System of
Record

Creating and
Configuring a
Curity System
of Record

Creating and
Configuring a
PagerDuty
System of
Record

Creating and
Configuring a
Sailpoint
IdentityNow
System of
Record

Creating and
Configuring a
Custom System
of Record

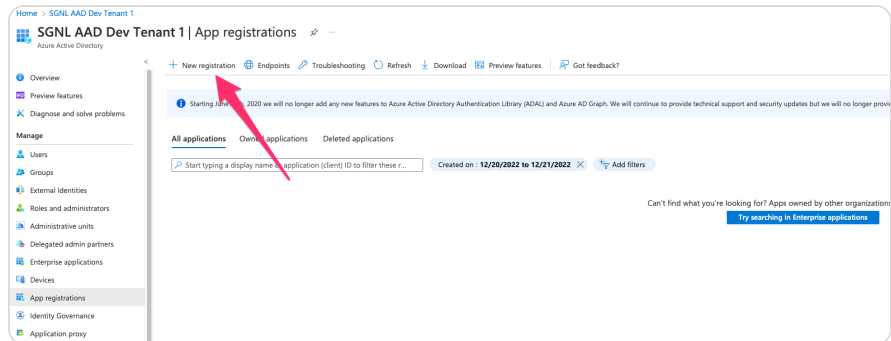
Protected Systems

Best Practices
for Managing
and Securing
Protected
Systems

Protecting a
System with a
SGNL SDK

Configuring Azure AD

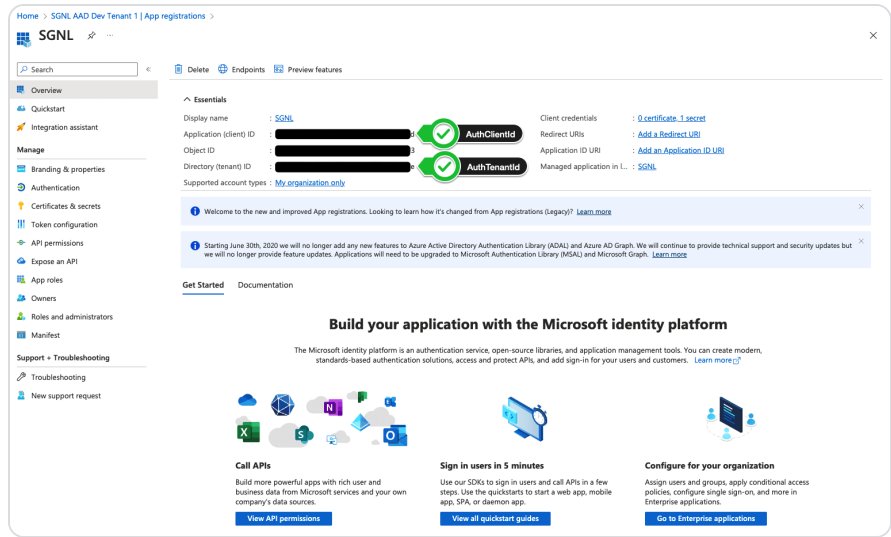
1. Login to the [Microsoft Azure Portal](#) and launch the Azure AD Console
2. From the left navigation pane, select [App Registrations](#)
3. Create a New Registration



4. Specify a Name for the App and choose Register

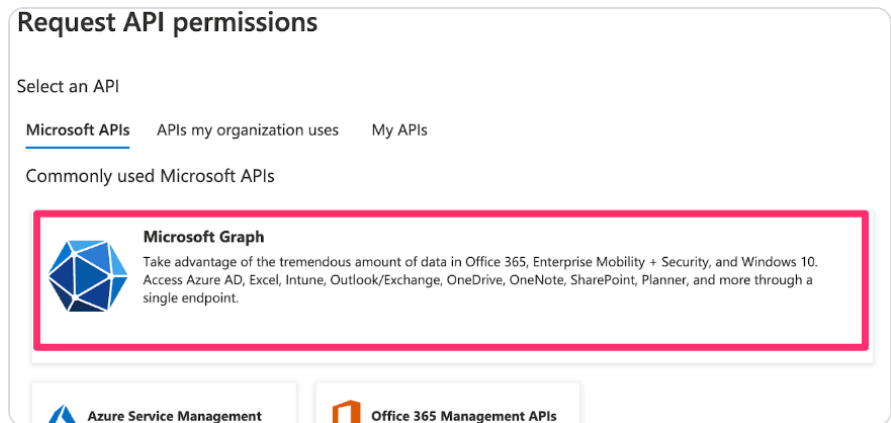
5. Within the App Registration, note the:
 - Application (client) Id (**SGNL: AuthClientId**)
 - Directory (tenant) Id (**SGNL: AuthTenantId**)

- Protecting Apigee with SGNL
- Protecting Auth0 App Sign-In with SGNL
- Protecting AWS Access with Okta and SGNL
- Protecting AWS API Gateway with SGNL
- Protecting Azure AD SSO with SGNL
- Protecting Azure API Management with SGNL
- Protecting Linux Systems with SGNL
- Protecting Microservices with Envoy Proxy and SGNL
- Protecting Mulesoft with SGNL
- Protecting Okta App Sign-In with SGNL
- Protecting OPA-Enabled Apps with SGNL
- Protecting Salesforce with SGNL
- Protecting ServiceNow with SGNL

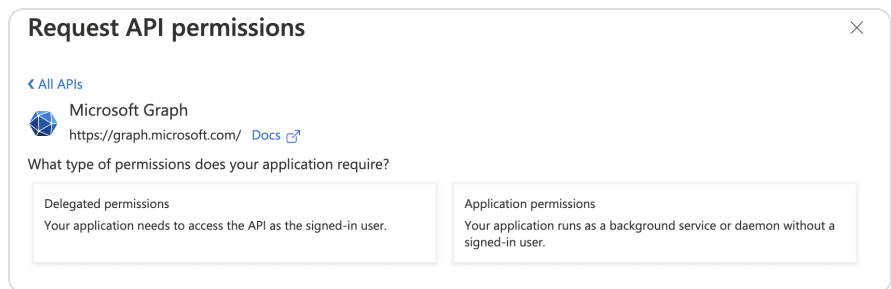


6. From the API permissions page in the left menu, choose to Add a permission

7. Select Microsoft Graph



8. Select “Application Permissions”



9. Select the below and Add permissions:

- o User.Read.All

Policy Management

SGNL Policy Overview

Quickstart: Creating Effective Policies

SGNL Policy Snippet Reference

Integrating Protected Systems with SGNL using Access APIs

Troubleshooting Access Decisions

Administration

Configuring and Managing Labels in SGNL

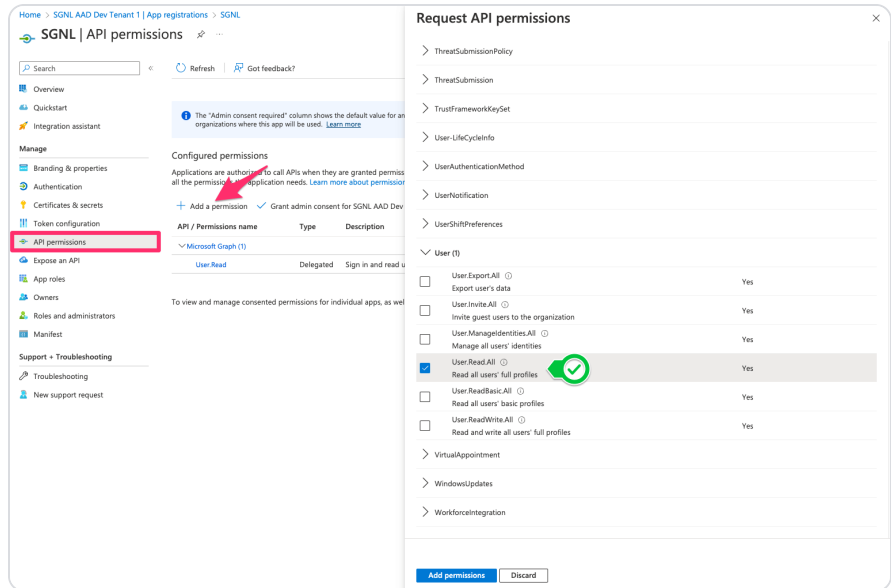
Configuring SGNL for SSO with Google Workspace

Configuring SGNL for SSO with Okta

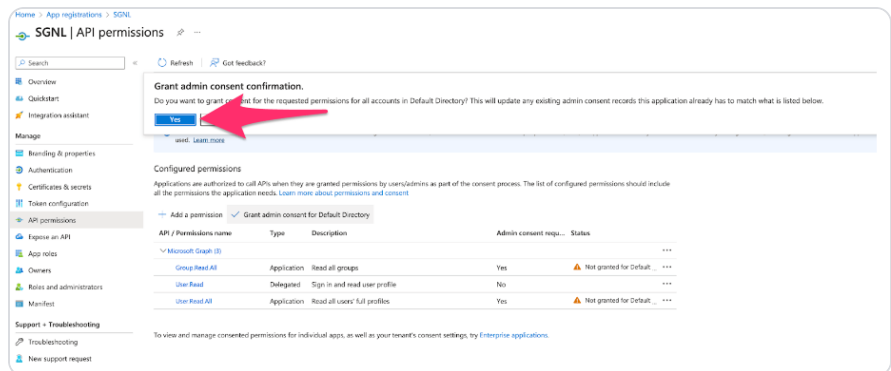
Configuring SGNL for SSO with OpenID Connect

SGNL Service Availability

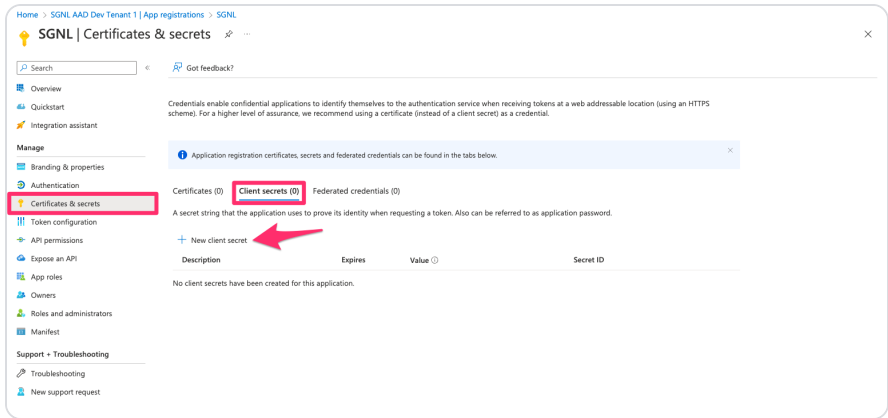
- o Group.Read.All
- o Application.Read.All
- o Device.Read.All



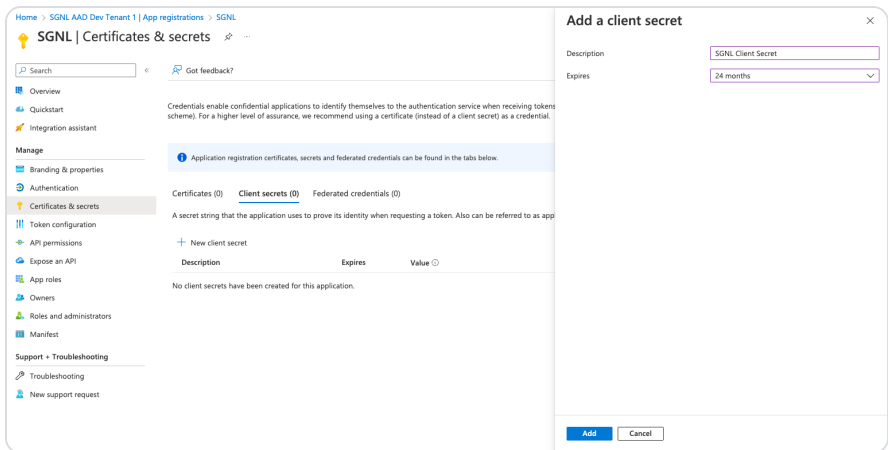
10. If asked to do so, grant “admin consent”



11. Select Certificates and Secrets from the left menu, select Client secrets, and + New Client Secret



12. Give the secret a description and expiry (the length of time until a new secret will need to be generated for SGNL to communicate with Azure AD), and select Add



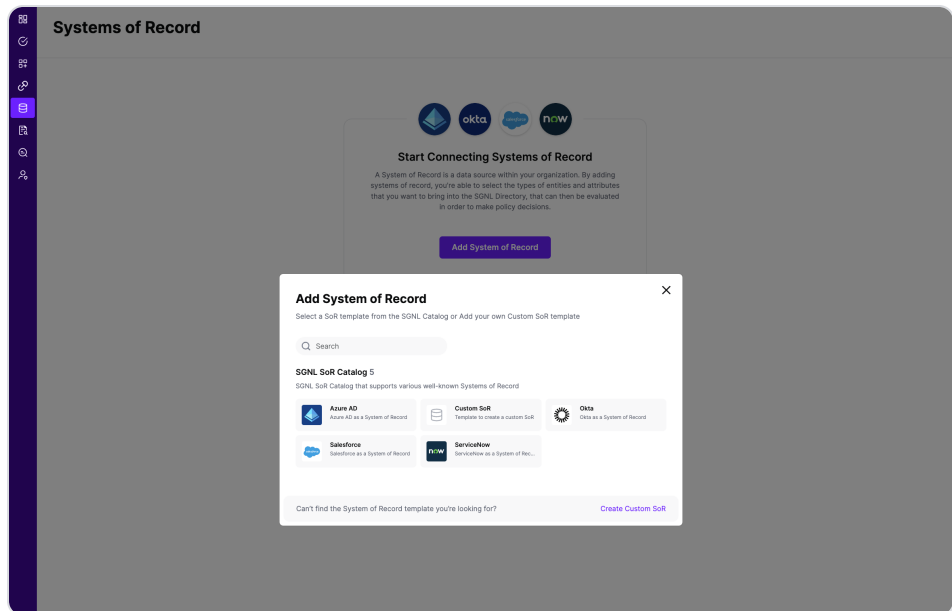
13. Copy the Value of the secret, this will be required for the SGNL Console (**SGNL: AuthClientSecret**)



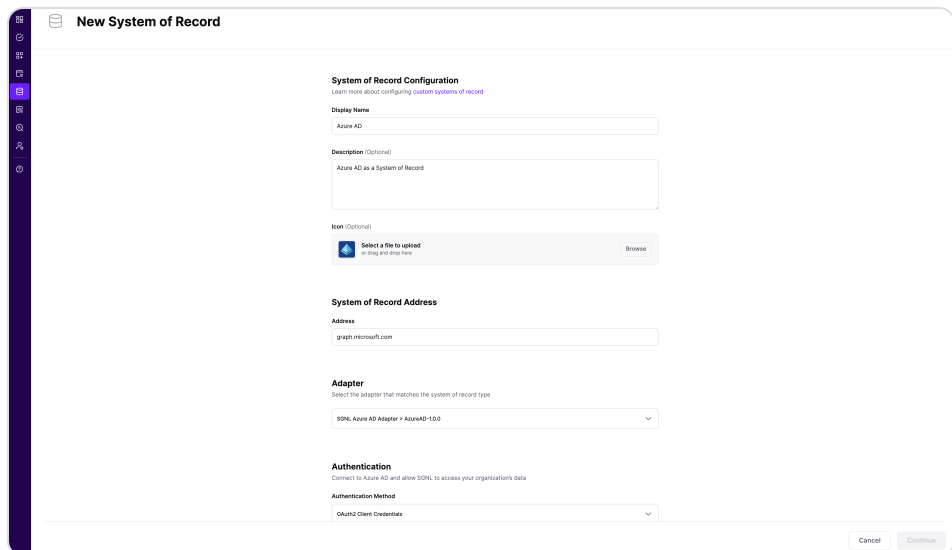
Configuring SGNL

1. Login to the SGNL Console
2. From the left menu, select Systems of Record

3. Click “Add System of Record” or “Add”.
4. The SGNL SoR Catalog will show up on the screen.

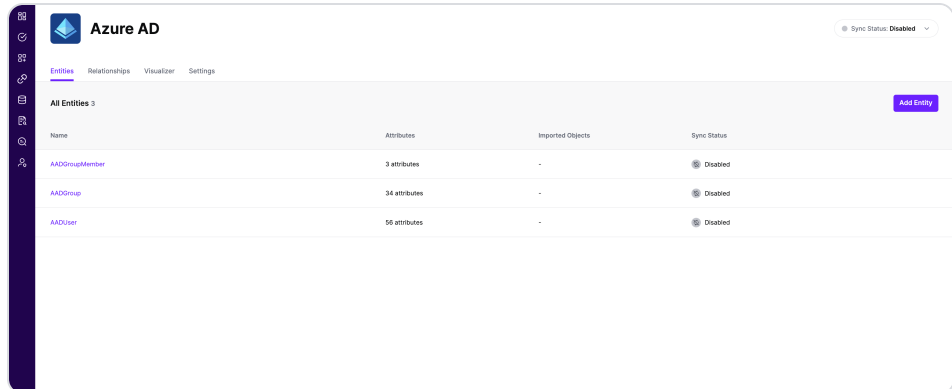


5. Click on “Azure AD” which will open up the New System of Record screen with some configuration options pre-populated from the Azure AD SoR template.

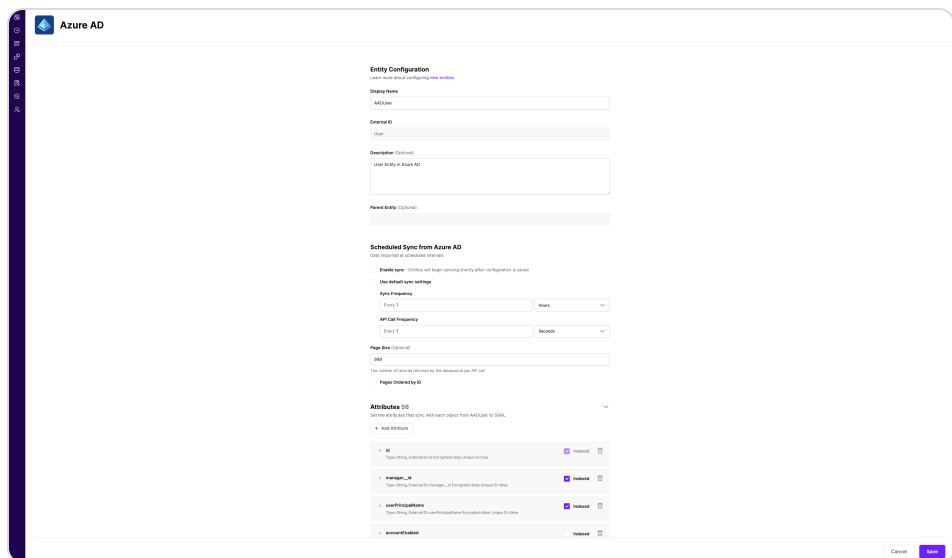


6. Choose the correct adapter that matches the AzureAD System of Record Type.
7. Replace all fields that have the {{Input Required:}} placeholder with relevant information. For Azure AD, the following fields are required:

- **Client ID:** The Application (Client) ID you copied from Azure AD
 - **Client Secret:** The Client Secret value you copied from Azure AD
 - **Tenant ID in the Token URL:** The Directory (tenant) ID you copied from Azure AD
8. Click “Continue” to save your Azure AD System of Record. You will be taken to Azure AD System of Record page.



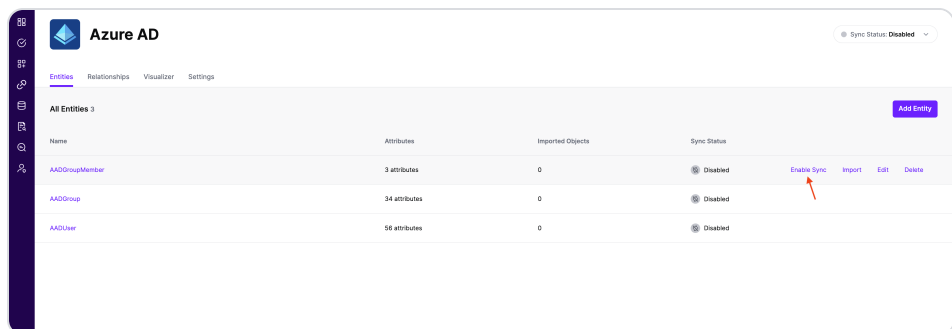
8. All entities and relationships are created as defined in the Azure AD template. If applicable, you can edit an entity and modify any properties of the entity or the associated attributes. Hover over the entity on the screen above to see the Edit button as shown below:



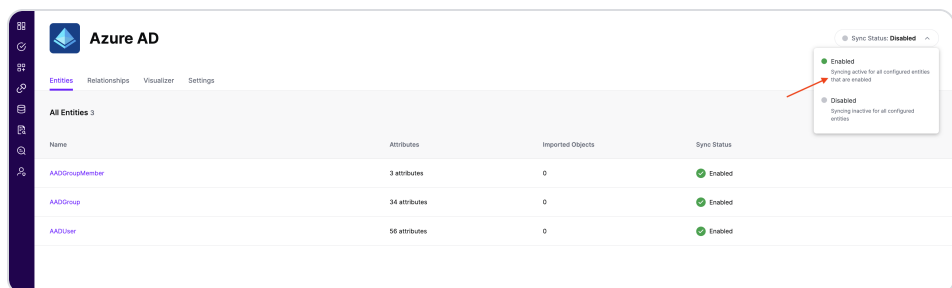
9. You can check the relationships created through the Relationships tab. However, relationships cannot be

modified. You will need to delete an existing one, and create a new relationship.

10. (If applicable) You can also create relationships joining entities and attributes in Azure AD to entities and attributes in other Systems of Record configured in SGNL. For example, if User Employee IDs in your Azure AD are consistent with the Employee IDs in your HRIS system, you can create a relationship between the Employee ID attribute in Azure AD instance and the Employee ID attribute in your HRIS System of Record. For more information on relationships, please refer to our [Help Page](#).
11. Note that synchronization is disabled by default when a new System of Record is created. You can choose to enable synchronization on Entities individually. Hover over the entity to see the Enable Sync button, and click on it.



12. Repeat for all Entities you want to synchronize to SGNL. Finally, Enable synchronization for the System of Record.



13. After some time, SGNL should complete ingesting the data from your Azure AD instance into the SGNL graph. The number of objects ingested per entity are displayed on the Azure AD screen. You should then be able to construct

policies based on your Azure AD data and make access evaluation calls to SGNL.



Product

Product Overview

Continuous Access Platform

Breadth of Offering

Highly Scalable Platform

Solutions

Solutions Overview

Amazon Web Services

Salesforce

GitHub

Azure

All Integrations

Resources

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Events

Glossary

Media Kit

Support

Contact Support

Help Center

Developer Documentation

The screenshot shows the Azure AD console interface. At the top, it says 'Azure AD' with a 'Sync Status: Enabled' indicator. Below that, there are tabs for 'Entities', 'Relationships', 'Visualizer', and 'Settings'. The main content area is titled 'All Entities 3' and contains a table with the following data:

Name	Attributes	Imported Objects	Sync Status
AADGroupMember	3 attributes	13	Enabled
AADGroup	34 attributes	3	Enabled
AADUser	56 attributes	9	Enabled

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