

Identity Source: pxGrid Cloud Identity (ISE 3.4 and Later)

The following topics discuss how to configure and use the pxGrid Cloud Identity Source with Cisco ISE version 3.4 and later.

- pxGrid Cloud identity source, on page 1
- pxGrid Cloud identity source configuration, on page 3
- Enable the pxGrid Cloud service in Cisco ISE, on page 6
- Create an app instance, on page 9
- Create the identity source, on page 10
- Activate the app instance, on page 11
- Activate the pxGrid Cloud identity source, on page 14
- Test the pxGrid Cloud identity source, on page 16
- Troubleshoot the pxGrid Cloud identity source, on page 21
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- Deactivating and deleting the pxGrid Cloud identity source, on page 25

pxGrid Cloud identity source

The Cisco Identity Services Engine (Cisco ISE) pxGrid Cloud identity source enables you to use subscription and user data from Cisco ISE in Cloud-Delivered Firewall Management Center access control rules. Also, the identity source uses constantly changing dynamic objects from Cisco ISE in access control policies in the Cloud-Delivered Firewall Management Center.

Integration technologies

The pxGrid Cloud identity source also uses:

- The Cisco Platform Exchange Grid (pxGrid), which enables multivendor, cross-platform network system collaboration in things like security monitoring and detection systems, network policy platforms, asset and configuration management, identity, and access management. pxGrid Cloud is the cloud-based interface to Cisco ISE.

  More information about pxGrid is available in resources such as What is PxGrid? on devnet.

- The Cisco Digital Network Architecture (Cisco DNA) delivers automation, security, predictive monitoring, and a policy-driven approach. It provides end-to-end network visibility and uses network insights to optimize network performance and deliver the best user and application experience.

  To use the pxGrid Cloud identity source with the Security Cloud Control, you must Create a Cisco Account.

  - What is pxGrid? on devnet
  - Cisco Platform Exchange Grid Cloud on devnet

Restrictions for the pxGrid Cloud identity source

Before you set up the pxGrid Cloud identity source, note these restrictions:

- pxGrid Cloud supports these regions: `us-west-2`, `eu-central-1`, and `ap-southeast-1`.

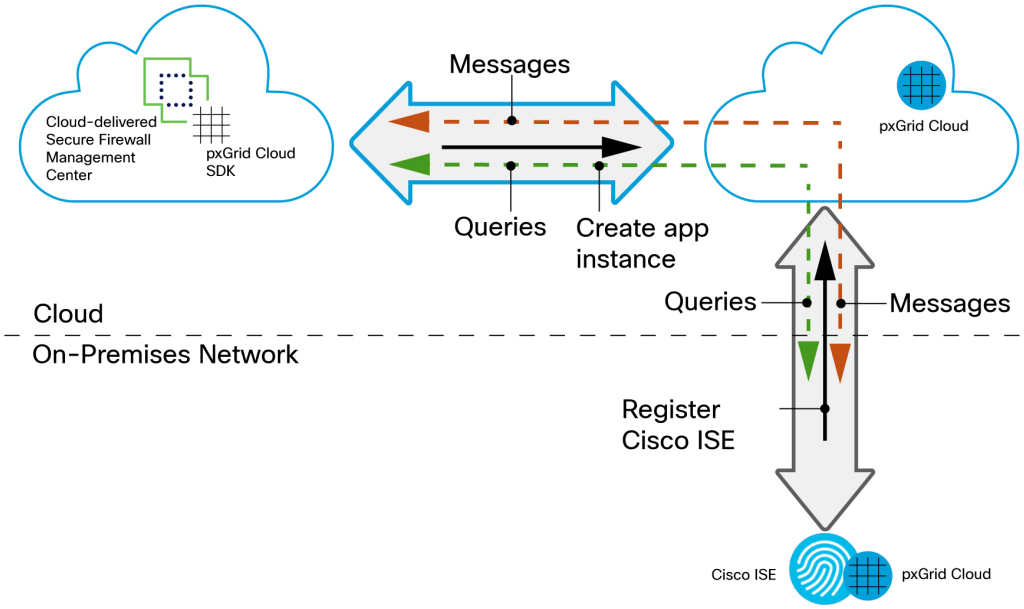
How the pxGrid Cloud identity source works

Summary

The key components involved in the pxGrid Cloud identity source are:

- Cloud-Delivered Firewall Management Center: Uses the pxGrid Cloud SDK to programmatically retrieve user information
- Cisco ISE: Provides user information, SGT, endpoint profile, and other details
- pxGrid Cloud: Facilitates secure data exchange between the management center and ISE
- Authentication process: Requires one-time passwords (OTP) to establish trusted communication

Workflow



These stages describe how the pxGrid Cloud identity source works:

1. In Cisco ISE, the administrator enables the use of pxGrid Cloud.
2. The administrator registers Cisco ISE as a product in pxGrid Cloud, which authenticates Cisco ISE and pxGrid Cloud and enables them to communicate with each other.

   The authentication process requires you to paste a one-time password (OTP) from pxGrid Cloud into Cisco ISE.
3. In pxGrid Cloud, the administrator creates an "app instance" that generates an OTP for use in the Cloud-Delivered Firewall Management Center to authenticate the two with each other.
4. After completing all the preceding tasks, the Cloud-Delivered Firewall Management Center (which includes the pxGrid Cloud SDK) can query Cisco ISE using pxGrid Cloud and retrieve sessions containing user information, SGT, endpoint profile, and other details.
5. Many types of dynamic objects can be filtered and sent to the Cloud-Delivered Firewall Management Center as dynamic objects to be used in access control rules. These include: SGT, endpoint profile, posture status, and machine authentication.

   User information is retrieved from Cisco ISE and group information is retrieved from either Microsoft Active Directory or Azure Active Directory.

pxGrid Cloud identity source configuration

These topics summarize how to configure a pxGrid Cloud identity source either for ISE 3.3 and earlier or for ISE 3.4 and later. The steps are different so make sure you follow them exactly.

Related Topics

Configuring a pxGrid Cloud identity source, on page 4

Configuring a pxGrid Cloud identity source (Cisco ISE 3.3 or earlier)

Configuring a pxGrid Cloud identity source

Before you begin, create a Cisco Account.



Important *This topic applies to Cisco ISE version 3.4 or later*. If you are using an earlier version, see Configuring a pxGrid Cloud identity source (Cisco ISE 3.3 or earlier) instead.

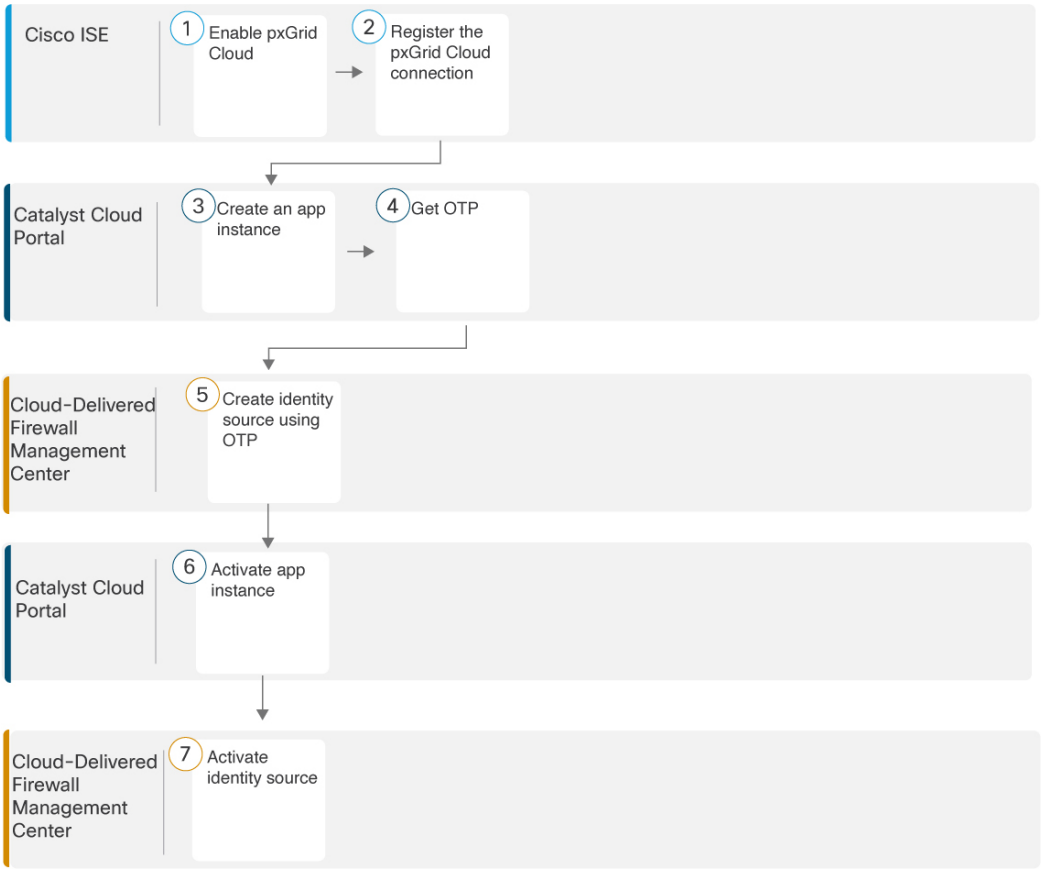
Summary

The key components involved in configuring a pxGrid Cloud identity source are:

- Cisco ISE: Enables pxGrid Cloud service and creates the connection
- Catalyst Cloud Portal: Creates and manages app instances for authentication
- Cloud-Delivered Firewall Management Center: Receives user data and creates identity sources for policy enforcement

Workflow

Figure 1: Configure a pxGrid Cloud identity source



1 Enable the pxGrid Cloud service in Cisco ISE, on page 6
2 Register the pxGrid Cloud connection with Cisco ISE
3 Create an app instance, on page 9
4 Create an app instance, on page 9
5 Create a pxGrid Cloud identity source
6 Activate the app instance
7 Activate the pxGrid Cloud identity source

These are the stages of configuring a pxGrid Cloud identity source using Cisco ISE, the Catalyst Cloud Portal, and Cloud-Delivered Firewall Management Center:

1. Enable pxGrid Cloud in Cisco ISE.

   pxGrid Cloud enables you to subscribe to offers and to register apps (in this case, the Cloud-Delivered Firewall Management Center) for secure data exchange in a cloud environment.

   For more information, see Enable the pxGrid Cloud service in Cisco ISE, on page 6.

2. Create an app instance and get the one-time password (OTP) required to create the pxGrid Cloud identity source in the Catalyst Cloud Portal.

   For more information, see Create an app instance, on page 9.

3. Create the pxGrid Cloud identity source in the Cloud-Delivered Firewall Management Center.

   The identity source enables the Cloud-Delivered Firewall Management Center to authenticate with Cisco ISE and the Catalyst Cloud Portal so it can receive user data from Cisco ISE.

   For more information, see Create the identity source.

4. Activate the app instance in the Catalyst Cloud Portal.

   For more information, see Activate the app instance.

5. Activate the pxGrid Cloud identity source in the Cloud-Delivered Firewall Management Center.

   For more information, see Activate the pxGrid Cloud identity source.

What's next

After you complete this configuration process, you can:

- Test the pxGrid Cloud identity source to make sure it's working properly. For more information, see Test the pxGrid Cloud identity source.
- Create dynamic attributes filters, which define what dynamic objects are sent to the Cloud-Delivered Firewall Management Center. For more information, see Create dynamic attributes filters.
- Use the pxGrid Cloud identity source to enable dynamic objects, Microsoft AD user and groups, and Azure AD users and groups in access control rules.

Enable the pxGrid Cloud service in Cisco ISE

This task enables the pxGrid Cloud service in Cisco ISE, which allows your ISE deployment to connect to cloud-based pxGrid services for enhanced security and visibility.

This task explains how to enable pxGrid Cloud in Cisco ISE.

Before you begin

- Install and activate the Advantage license tier in your Cisco ISE deployment.
- The pxGrid Cloud agent creates an outbound HTTPS connection to Cisco pxGrid Cloud. Therefore, you must configure Cisco ISE proxy settings if the customer network uses a proxy to reach the internet. To configure proxy settings in Cisco ISE, click the **Menu** icon (☰) and choose **Administration > System > Settings > Proxy**.
- The Cisco ISE Trusted Certificates Store must include the root CA certificate required to validate the server certificate presented by Cisco pxGrid Cloud. Ensure that the **Trust for Authentication of Cisco Services** option is enabled for this root CA certificate. To enable this option, navigate to **Administration** > **System** > **Certificates**.

Follow these steps to enable the pxGrid Cloud service in Cisco ISE:

Procedure

Step 1 Log in as an administrator to Cisco ISE.

If your Cisco ISE server is part of a cluster, log in to the Primary Administration Node (PAN).

Step 2 Click the **Menu** icon (☰), then click **Administration** > **Deployment**.

Under Deployment Nodes, click the name of the deployment node.

Step 3 On the next page, scroll down to locate the **pxGrid** node.

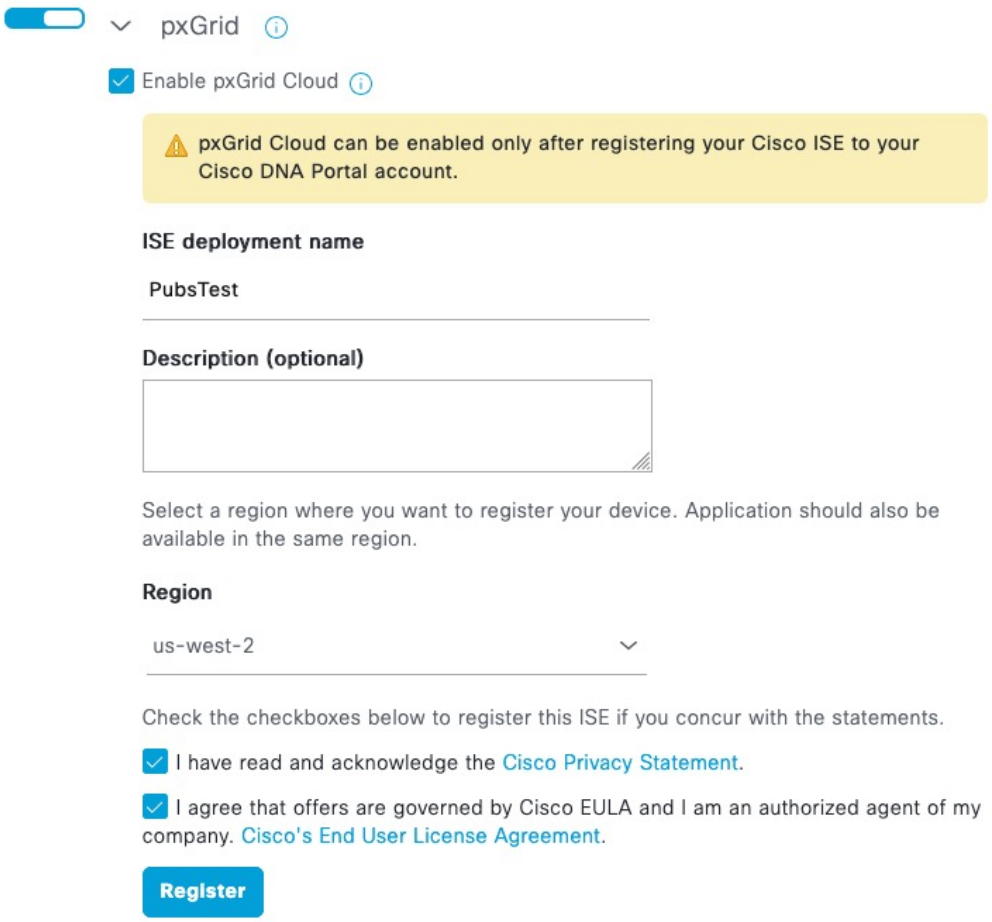
Select the **Enable pxGrid Cloud** check box.

Step 4 Enter the following information:

Option	Description
ISE Deployment Name	Enter a unique name to identify your ISE deployment.
Description (Optional)	Enter an optional description.
Region	Click the region you're in (**us-west-2**, **eu-central-1**, or **ap-southeast-1**). This is the only valid region at this time.
License agreements	You are required to select both check boxes to continue.

Step 5 Click **Register**.

Example:



Step 6 When prompted with an activation code for the Catalyst Cloud Portal, click **Next**.

Step 7 When prompted, log in to the Catalyst Cloud Portal.

Step 8 At the Select an Account dialog box, click the name of an account with which to register Cisco ISE.

Step 9 Click **Register ISE**.

What to do next

See Verify Cisco ISE registration in the Catalyst Cloud Portal, on page 8.

Verify Cisco ISE registration in the Catalyst Cloud Portal

This task allows you to confirm that Cisco ISE is properly registered with the Catalyst Cloud Portal.

This task explains how to verify that Cisco ISE is registered with the Catalyst Cloud Portal.

Before you begin

Complete the tasks discussed in Enable the pxGrid Cloud service in Cisco ISE, on page 6.

Procedure

Step 1 Log in to the Cisco Catalyst Cloud Portal.

Step 2 If prompted, select the account.

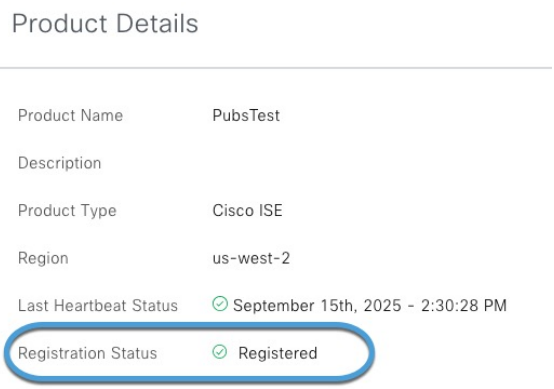
Step 3 In the left navigation, click ☰ > **Applications and Products**.

Step 4 At the top of the page, click **Products**.

Step 5 Click the name of the Cisco ISE deployment you created previously.

Step 6 Make sure that **Registered** is displayed for its status.

Example:



Create an app instance

Create an app instance to enable pxGrid Cloud identity source functionality for sending user session data to the Cloud-Delivered Firewall Management Center.

This task is one of several tasks you must perform to create a pxGrid Cloud identity source to send user session data to the Cloud-Delivered Firewall Management Center.

There is a one-hour time limit on the one-time password (OTP) required to complete this procedure successfully. You do not need to log in to Cisco ISE.

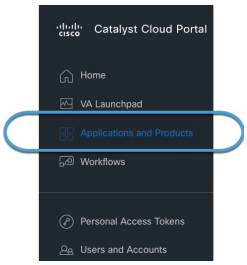
Before you begin

Verify Cisco ISE registration in the Catalyst Cloud Portal, on page 8.

Procedure

Step 1 Log in to the Cisco Catalyst Cloud Portal.

Step 2 In the Catalyst Cloud Portal, click ☰ > **Applications and Products**.



Step 3 At the top of the page, click **Applications**.

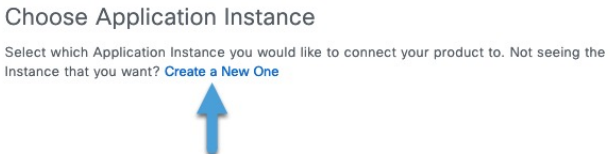
Step 4 From the **Regions** list, click **us-west-2**, **eu-central-1**, or **ap-southeast-1**.

Step 5 Click **Manage** (or **Activate**) next to **Firepower Management Center**.

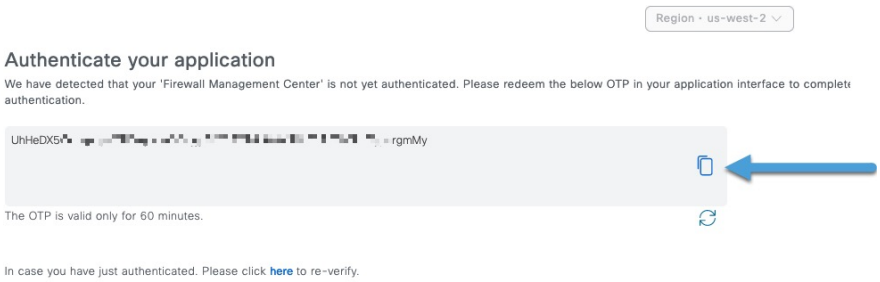
Step 6 Click **Add**.

Step 7 Click **Create a New One**.

The following figure shows an example.



Step 8 Click the copy button next to the displayed OTP.



Copy the OTP to a text file; it expires in 60 minutes.

Step 9 Continue with Create the identity source.

Create the identity source

This task creates a pxGrid Cloud identity source to send user session data to the Cloud-Delivered Firewall Management Center.

This task is one of several required to create a pxGrid Cloud identity source to send user session data to the Cloud-Delivered Firewall Management Center.

Before you begin

Complete the task discussed in Create an app instance.

Procedure

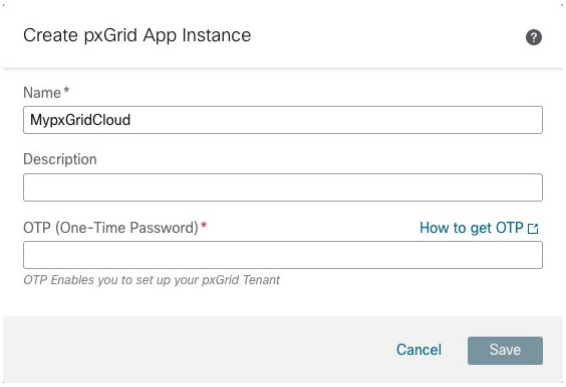
Step 1 Log in to Security Cloud Control as a user with the Super Admin role.

Step 2 Click **Policies** > **Threat Defense** > **Integration** > **Identity** > **Identity Sources**

Step 3 Click **Identity Services Engine (pxGrid Cloud)**.

Step 4 Click **Create pxGrid Application Instance**.

This figure shows an example.



Step 5 Enter the required information.

Value	Description
Name	Enter a name to uniquely identify this connector.
Description	Optional description.
OTP (One-Time Password)	Enter the OTP.

Step 6 Click **Create**.

At the top of the page, click **Save**.

What to do next

Continue with Activate the app instance.

Activate the app instance

Activate an app instance to create a pxGrid Cloud identity source that sends user session data to the Cloud-Delivered Firewall Management Center.

There is a one-hour time limit on the one-time password (OTP) required to complete this procedure successfully. You do not need to log in to Cisco ISE.

Before you begin

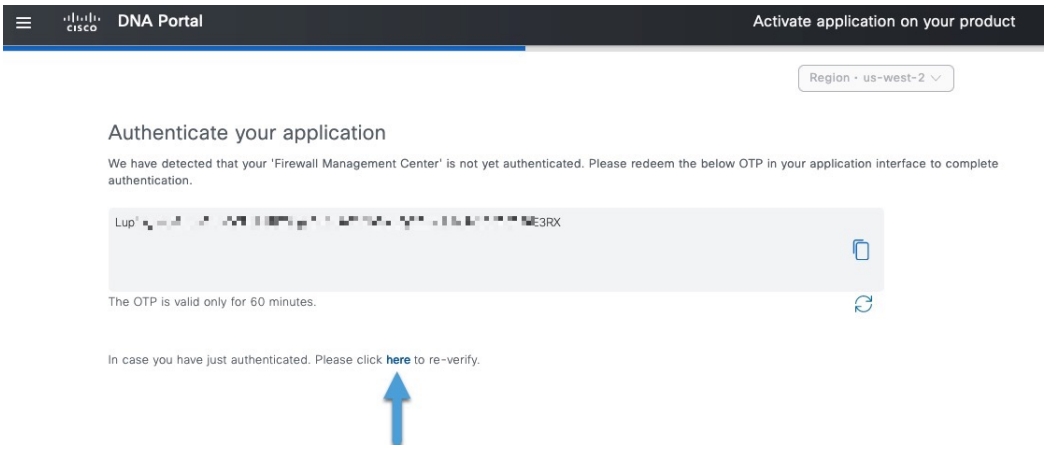
Complete the task discussed in Create the identity source.

Follow these steps to activate the app instance:

Procedure

Step 1 Log in to the Cisco Catalyst Cloud Portal.

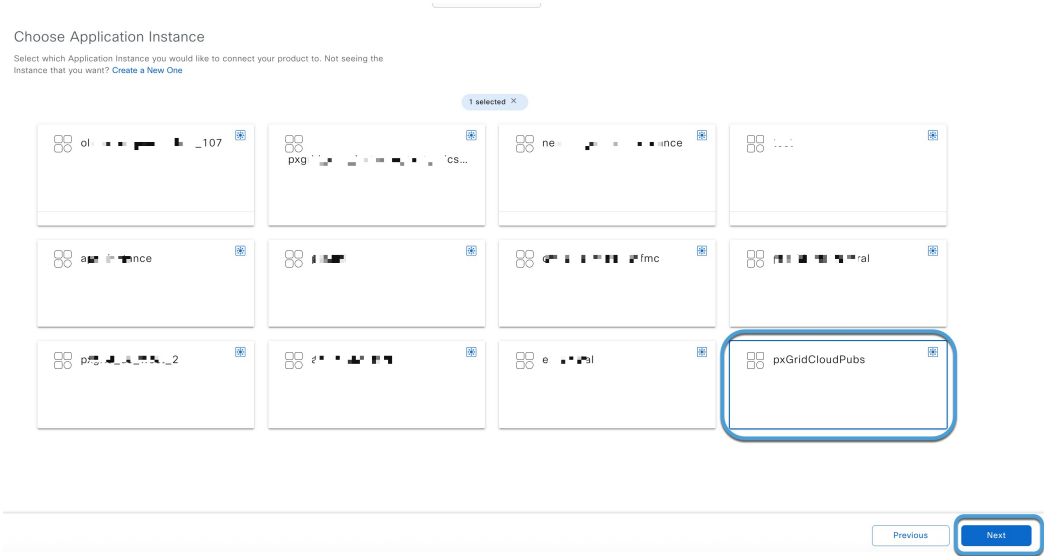
Step 2 Reverify the app by clicking the word **here** as the following figure shows.



Step 3 Click the name of the application instance you just created in Cloud-Delivered Firewall Management Center.

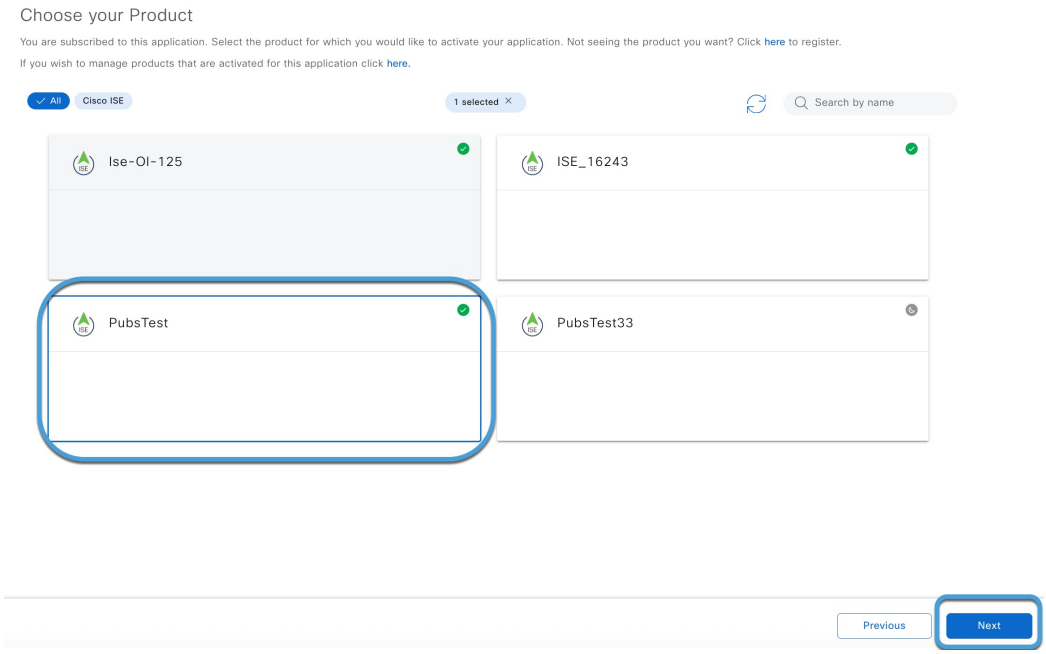
Step 4 Click **Next**.

Example:

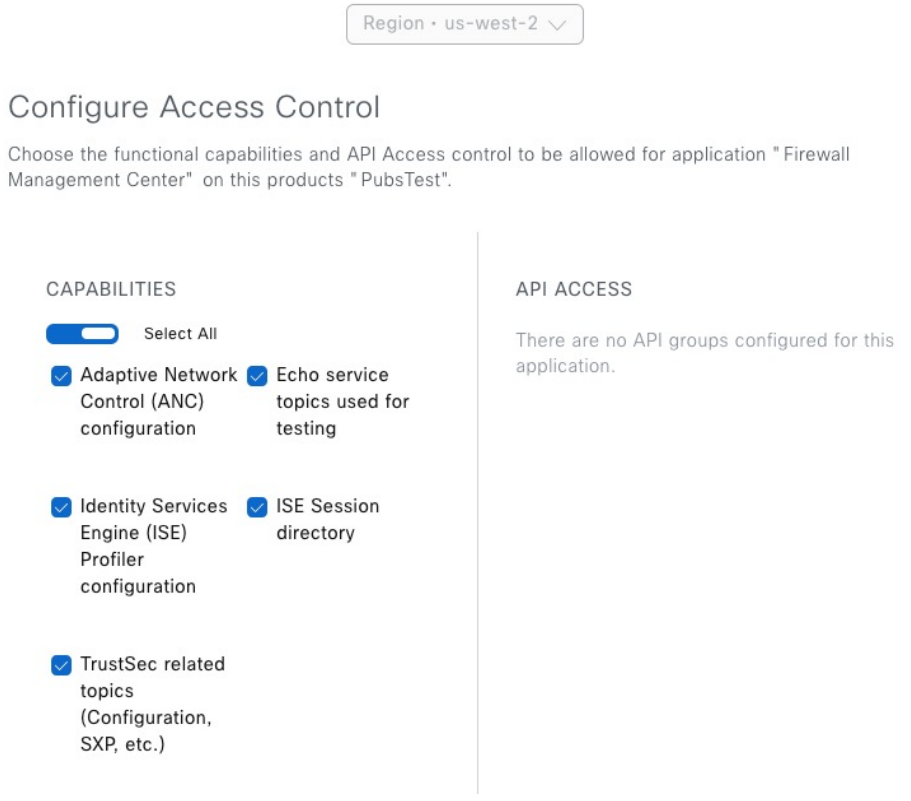


Step 5 On the Choose Product page, click the name of the Cisco ISE product and click **Next**.

Example:



Step 6 Select the check box next to each scope.
The following figure shows an example.



Step 7 Click **Next**.

Step 8 Review the displayed information for accuracy. Make sure all scopes are selected.

Step 9 Click **Activate**.

It can take several minutes for the app instance to be activated.

Continue with Activate the pxGrid Cloud identity source.

Activate the pxGrid Cloud identity source

This task activates the pxGrid Cloud identity source to enable identity services integration in your security infrastructure.

This task explains how to activate the pxGrid Cloud identity source in the Security Cloud Control.

Before you begin

Complete the tasks discussed in Activate the app instance.

Note Only one pxGrid Cloud identity source can be active at a time.

Procedure

Step 1 Log in to Security Cloud Control as a user with the Super Admin role.

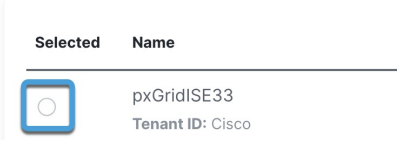
Click **Policies** > **Threat Defense** > **Integration** > **Identity** > **Identity Sources**.

Step 2 Click **Identity Services Engine (pxGrid Cloud)**.

Step 3 Click **Save** at the top of the page.

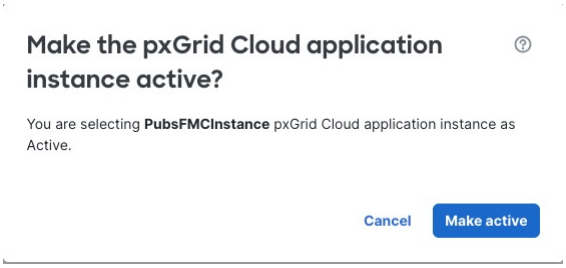
Step 4 If a green check mark is *not* displayed next to the name of the identity source, select it.

Example:



Step 5 Click **Make Active**.

Example:



Step 6 (Optional.) Select the following options if desired:

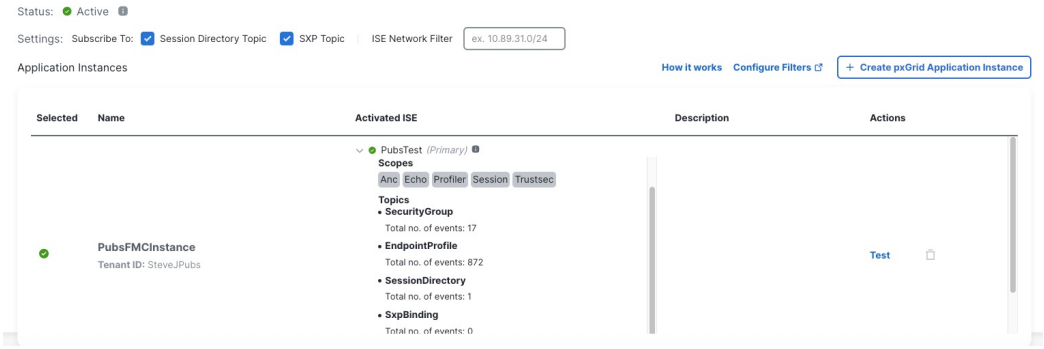
- **Session Directory Topic**: Select the check box to receive ISE user session information from the Cisco ISE server.
- **SXP Topic**: Select the check box to subscribe to SXP for SXP-derived mappings and receive updates to SGT-to-IP mappings when available from the ISE server.
- **ISE Network Filter**: Optional filter you can set to restrict the data that Cisco ISE reports. If you provide a network filter, Cisco ISE reports data from the networks in that filter.

  You have the following options:

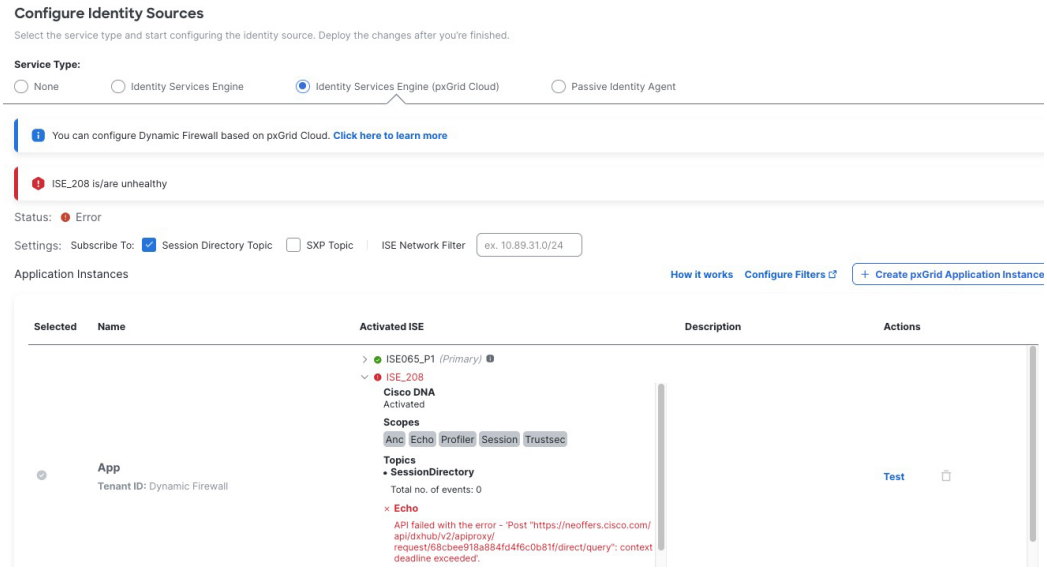
  - Leave the field blank to specify **`any`**.
  - Enter a single IPv4 address block using CIDR notation.
  - Enter a list of IPv4 address blocks using CIDR notation, separated by commas.

Step 7 Under Activated ISE, expand the identity source.

Example *normal* result:



Example *error* result:



In the event of an error, see Test the pxGrid Cloud identity source.

Step 8 Verify the status is Active and that all scopes and topics are displayed.

Wait a few minutes for data to be downloaded.

What to do next

See Test the pxGrid Cloud identity source.

Test the pxGrid Cloud identity source

This task enables you to perform diagnostics using the Security Cloud Control to determine if the identity source is working.

Errors might include communication with Cisco ISE, or with the Cisco ISE configuration with Catalyst Cloud Portal.

Procedure

Step 1 Log in to Security Cloud Control as a user with the Super Admin role.

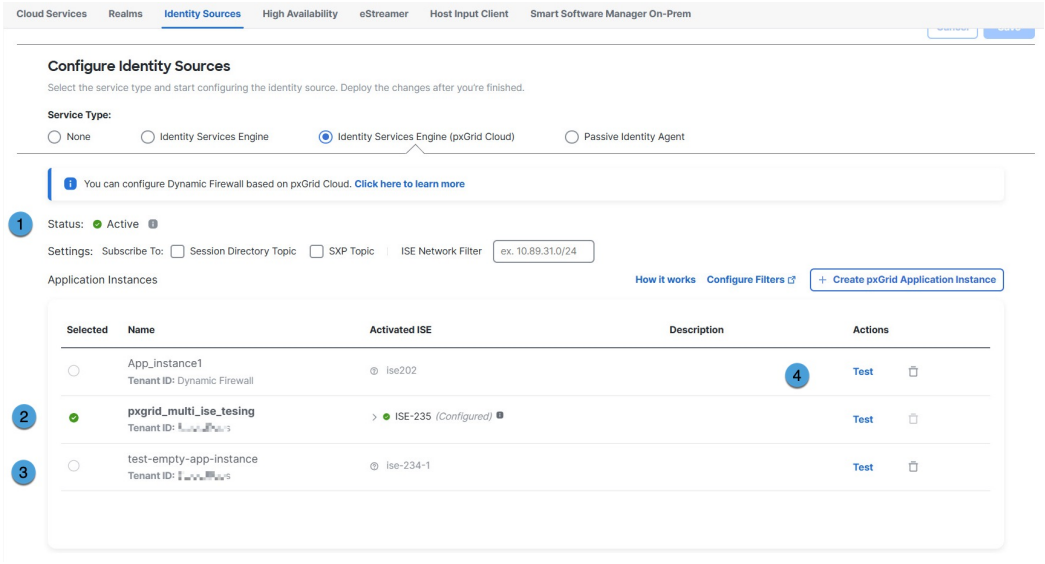
Step 2 Click **Policies** > **Threat Defense** > **Integration** > **Identity** > **Identity Sources**.

Step 3 Click **Integrations** > **Identity** > **Identity Sources**.

Step 4 Click **Identity Services Engine (pxGrid Cloud)**.

Step 5 Review the configuration status information.

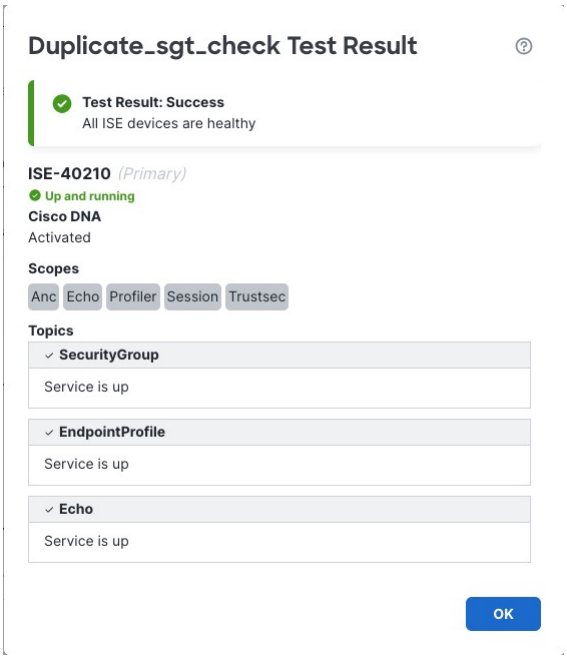
The following figure shows an example configuration.



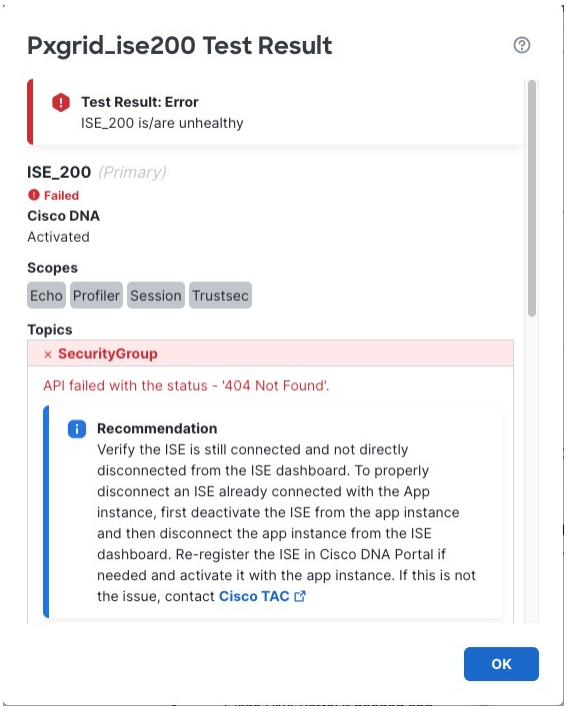
The following table has more information about the numbered areas in the figure.

Number	Meaning
1	Overall status Any errors in the overall status of the Cisco ISE app instances are displayed. In that case, scroll to that instance and either expand the error message or click **Test** for more information.
2	Active A green check mark indicates the app is active.
3	Inactive A dimmed app instance is inactive. You can activate it by selecting the check box next to its name and then clicking **Make active**.
4	**Test** button Click **Test** to perform diagnostic tests that show more detailed status of the app instance.

The following figure shows a sample success message.



The following figure shows an example error result.



Step 6 Click **Test** to perform diagnostic tests.

If errors occur, use the following error code reference to help diagnose and solve issues with Cisco ISE, pxGrid Cloud, and the Catalyst Cloud Portal. If these suggestions do not work, or if you have a different issue, contact Cisco TAC.

Table 1: Error code troubleshooting

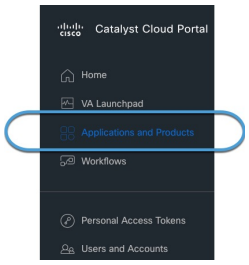
Error Code	Troubleshooting Steps
403 – Forbidden	Verify the Cisco ISE product is not in a **Pending** or **Suspended** state in the Catalyst Cloud Portal. If suspended, verify that Cisco ISE is registered as discussed in Enable pxGrid Cloud service in Cisco ISE and register your device. Additionally, verify pxGrid Cloud services are publicly available.
404 – Not Found	Verify the Cisco ISE server is not directly disconnected from the Cisco ISE dashboard. To properly disconnect Cisco ISE already connected with the app instance, first deactivate Cisco ISE from the app instance and then disconnect the app instance from the Cisco ISE dashboard.
408 – Request Timeout	Check whether there are any general connectivity issues with Cisco ISE and verify pxGrid Cloud connectivity status is **Connected** in the ISE dashboard under ☰ > **Administration** > **pxGrid Services** > **Client Management** > **pxGrid Cloud Connection**. Verify the Cisco ISE server is not directly disconnected from the Cisco ISE dashboard.
413 – Content Too Large	Review the pxGrid Cloud API limitations on GitHub. If needed, consider upgrading your Cisco ISE version to fully utilize pxGrid Cloud support.
500 – Internal Server Error	Check that the Cisco ISE server is operational and that pxGrid Cloud services are active (verify MNT, SXP, pxGrid nodes, and so on). For more information, see Monitoring and debugging in the Cisco pxGrid chapter in the *Cisco Identity Services Engine Administrator Guide*.

Step 7 If the product is in a **Pending** or **Suspended** state, verify that it is active.

a) Log in to the Catalyst Cloud Portal.

b) In the Catalyst Cloud Portal, go to ☰ > **Applications and Products**.

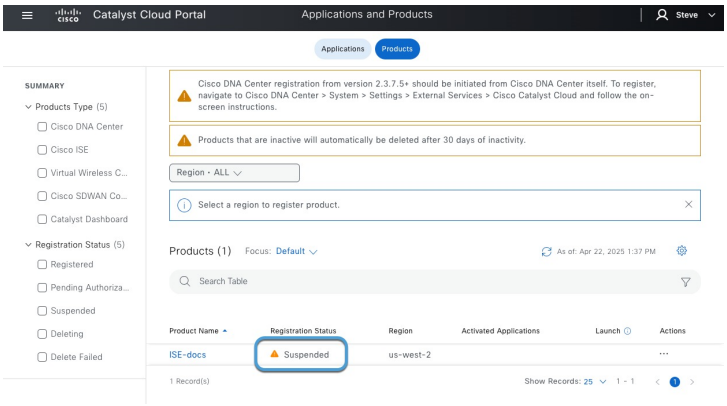
Example:



c) Click the **Products** tab.

Example:

The following figure shows an example of a suspended product.

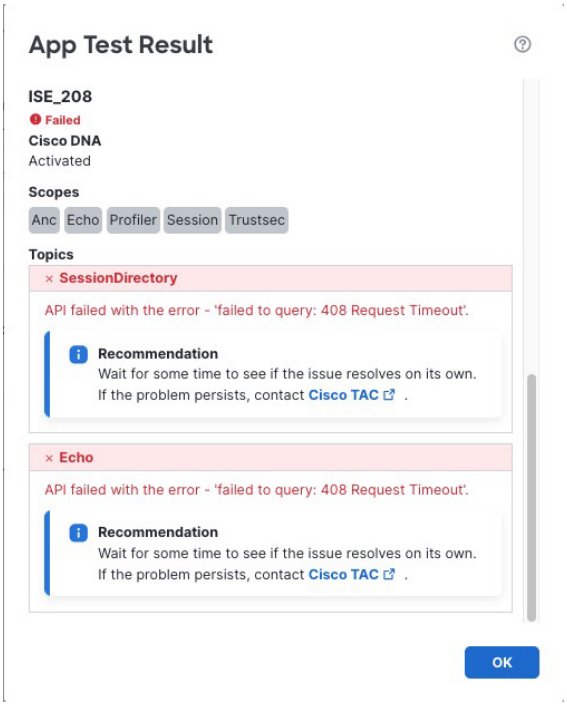


d) To correct the issue, in the Actions column, click ••• and click **Generate OTP**.

e) Use the OTP as discussed in Create the identity source.

If you encounter a cluster member not reachable error, find what node is not reachable.

If a member of the Cisco ISE cluster is not reachable, a page like this is displayed:



To find what node is not reachable, log in to Cisco ISE primary administration node as an administrator, click the **Menu** icon (☰) and choose **Administration** > **System** > **Deployment**, then see Node Status in a Cisco ISE Deployment.

Troubleshoot the pxGrid Cloud identity source

These topics describe troubleshooting the pxGrid Cloud identity source.

Related Topics

Primary device cannot be processed

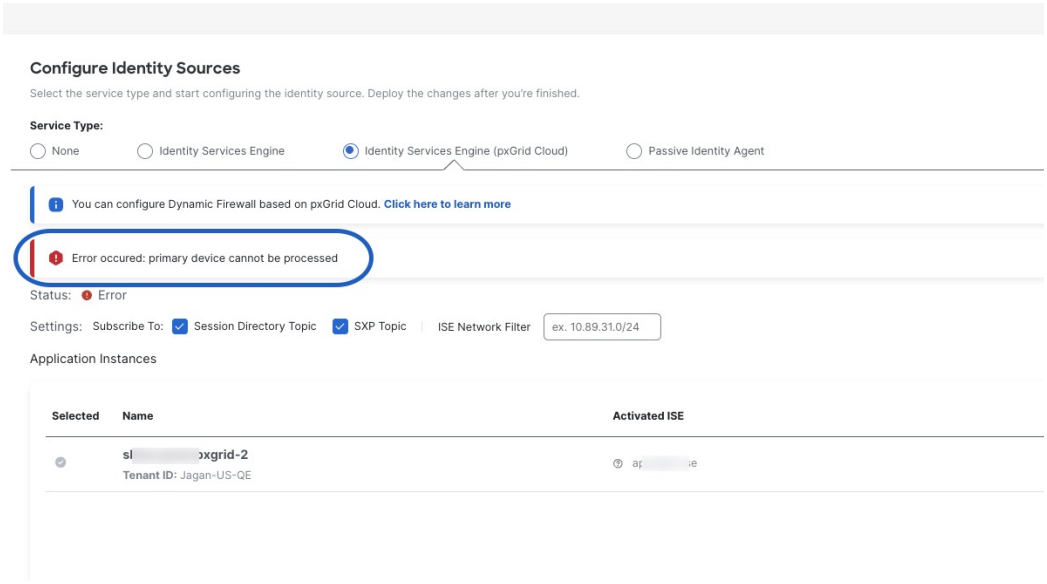
Primary device cannot be processed

This task resolves the error "primary device cannot be processed" or "ISE is unhealthy" that occurs when a Cisco ISE cluster is associated with more than one app instance.

Each Cisco ISE cluster must be associated with one and only one app instance, typically in a single dedicated tenant.

If you associate a Cisco ISE with more than one app instance, an error such as `Error occured: primary device cannot be processed` or `ISE is unhealthy` is displayed for the identity source.

Example:



The solution is to deactivate the ISE properly from other app instances for that tenant, before using it in any other tenant or app instance

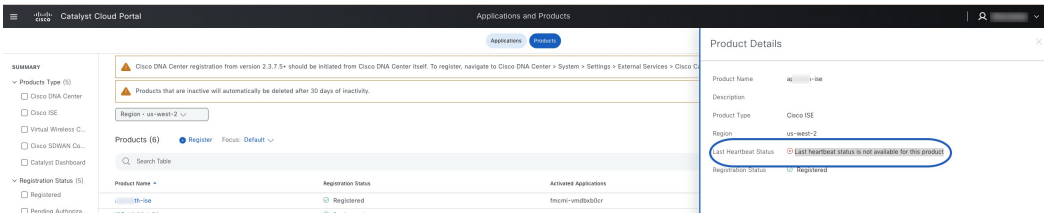
Procedure

Step 1 Log in to the Cisco Catalyst Cloud Portal.

Step 2 At the top of the page, click **Applications**.

Step 3 Locate a Cisco ISE product that is activated and verify it is the one causing the issue.

Example:



Step 4 Deactivate the app instance as described in Deactivate the pxGrid Cloud app instance.

Wait for the product to be removed.

Create dynamic attributes filters

Create dynamic attributes filters to expose them as dynamic objects in Security Cloud Control for use in access control policies.

Dynamic attributes filters that you define using the Dynamic Attributes Connector are exposed in the Security Cloud Control as dynamic objects that can be used in access control policies. For example, restrict access to an AWS server for the Finance Department to only members of the Finance group defined in Microsoft Active Directory.

Note You cannot create dynamic attributes filters for Azure Service Tags, Cisco Multicloud Defense, Generic Text, GitHub, Outlook 365, Tenable, Webex, and Zoom. These types of cloud objects provide their own IP addresses.

For more information about access control rules, see Create access control rules or DNS rules using dynamic attributes filters.

Before you begin

Connectors

Procedure

Step 1 Log in to Security Cloud Control.

a) Click **Firewall**.

b) Click **Administration** > **Dynamic Attributes Connector** > **Dynamic Attributes Filters**.

Step 2 Do any of the following:

- Add a new filter: click **Add** ( ).
- Edit or delete a filter: Click **More** ( ), then click **Edit** or **Delete** at the end of the row.

Step 3 Enter the following information.

Item	Description
Name	Unique name to identify the dynamic filter (as a dynamic object) in a policy and in the Security Cloud Control Object Manager (**External Attributes** > **Dynamic Object**).
Connector	From the list, click the name of a connector to use.
Query	Click Add .

Step 4 To add or edit a query, enter the following information.

Item	Description
Key	Click a key from the list. Keys are fetched from the connector.
Operation	Click one of the following: • **Equals** to exactly match the key to the value. • **Contains** to match the key to the value if any part of the value matches.
Values	Click either **Any** or **All** and click one or more values from the list. Click **Add another value** to add values to your query.

Step 5 Click **Show Preview** to display a list of networks or IP addresses returned by your query.

Step 6 When you're finished, click **Save**.

Step 7 (Optional.) Verify the dynamic object in the Security Cloud Control.

a) Log in to the Security Cloud Control.

b) Click **Policies** > **Firewall Threat Defense**.

c) Click **Objects** > **External Attributes** > **Dynamic Object**.

The dynamic attribute query you created should be displayed as a dynamic object.

Create access control rules or DNS rules using dynamic attributes filters

Create access control rules using dynamic objects that are based on dynamic attributes filters you have previously configured.

This topic discusses how to create access control rules using dynamic objects (these dynamic objects are named after the dynamic attributes filters you created previously).

To add dynamic attributes filters to DNS policies, see Create basic DNS policies.

Before you begin

Create dynamic attributes filters as discussed in Create dynamic attributes filters.

Note You cannot create dynamic attributes filters for Azure Service Tags, Cisco Multicloud Defense, Generic Text, GitHub, Outlook 365, Tenable, Webex, and Zoom. These types of cloud objects provide their own IP addresses.

Follow these steps to create access control rules or DNS rules using dynamic attributes filters:

Procedure

Step 1 Log in to Security Cloud Control as a user with the Super Admin role.

Click **Policies** > **Firewall Threat Defense** > **Access Control heading** > **Access Control**.

Step 2 Click **Firewall**.

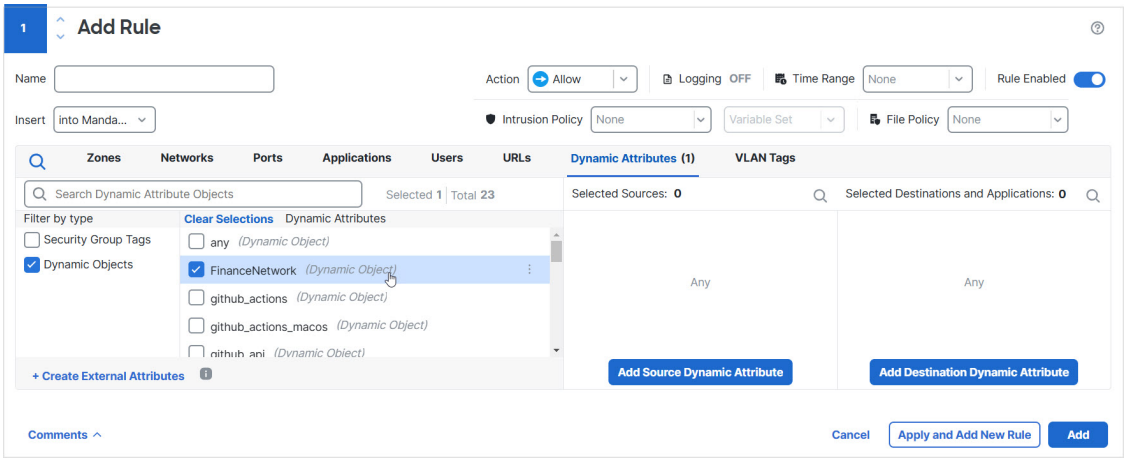
Step 3 Click **Edit** ( ) next to an access control policy.

Step 4 Click **Add Rule**.

Step 5 Click the **Dynamic Attributes** tab.

Step 6 In the Available Attributes section, from the list, click **Dynamic Objects**.

The following figure shows an example.



This example shows a dynamic object named `APIC Dynamic Attribute` that corresponds to the dynamic attribute filter created in the dynamic attributes connector.

Step 7 Add the desired object to source or destination attributes.

Step 8 Add other conditions to the rule if desired.

See Dynamic attributes rule conditions.

Deactivating and deleting the pxGrid Cloud identity source

Deactivating the FMC app instance in the Catalyst Cloud Portal is an optional task to troubleshoot issues with the Cisco ISE integration.

You should delete the pxGrid Cloud identity source from the Security Cloud Control when you are certain you don't want to use it again.

Related Topics

Deactivate the pxGrid Cloud app instance
Delete the pxGrid Cloud identity source

Deactivate the pxGrid Cloud app instance

This task explains how to deactivate a pxGrid Cloud app instance using the Catalyst Cloud Portal when your Cisco ISE or pxGrid Cloud stops working or you need to update it.

This is an optional task. You should do this only if your Cisco ISE or pxGrid Cloud stops working or you need to update it.

Before you begin

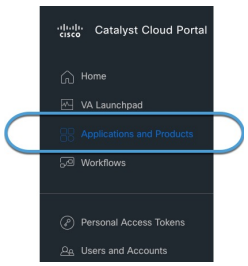
Make sure your current pxGrid Cloud identity source is active as discussed in Activate the pxGrid Cloud identity source.

Follow these steps to deactivate the pxGrid Cloud app instance:

Procedure

Step 1 Log in to the Cisco Catalyst Cloud Portal.

Step 2 In the Catalyst Cloud Portal, click ☰ > **Applications and Products** as the following figure shows:

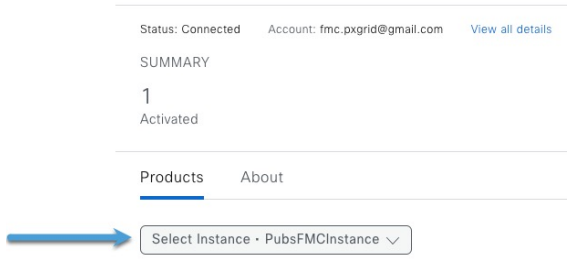


Step 3 Click **Applications**.

Step 4 Click **Manage** for Firewall Management Center.

From the **Select Instance** list, click the name of the firewall application you created earlier.

Example:



Step 5 In the Actions column, click More icon (···) > **Deactivate**.

Step 6 Wait until the product is removed.

You can click **Refresh** ( ) to see updated status if necessary.

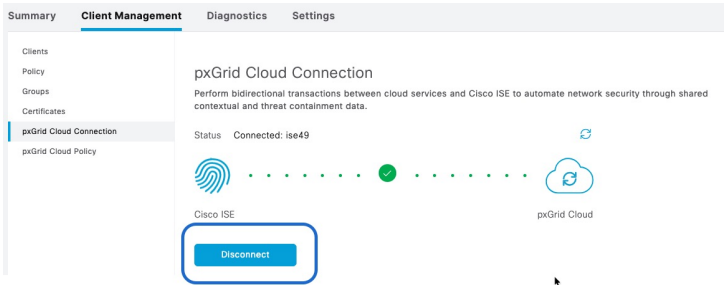
Step 7 ISE 3.3 or earlier: Disconnect the app instance:

a) Log in to Cisco ISE as an administrator.

b) Click **Administration** > **pxGrid Services** > **Client Management** > **pxGrid cloud connection**.

c) Click **Disconnect**.

Example:



Step 8 ISE 3.4 or later: Deregister the app instance:

a) Log in to Cisco ISE as an administrator.

b) Click **Administration** > **System** > **Deployment**.

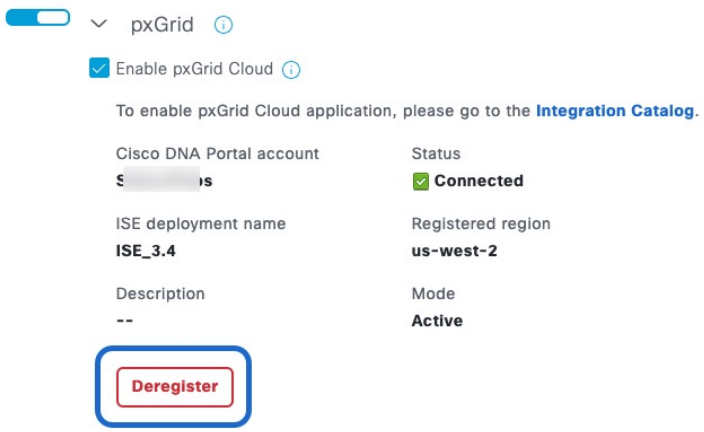
c) Expand **Deployment**.

d) Click the name of the ISE node.

e) In the **General Settings** tab page, scroll to locate **pxGrid**.

f) Click **Deregister**.

Example:



Step 9 To verify the app instance is deactivated in Security Cloud Control:

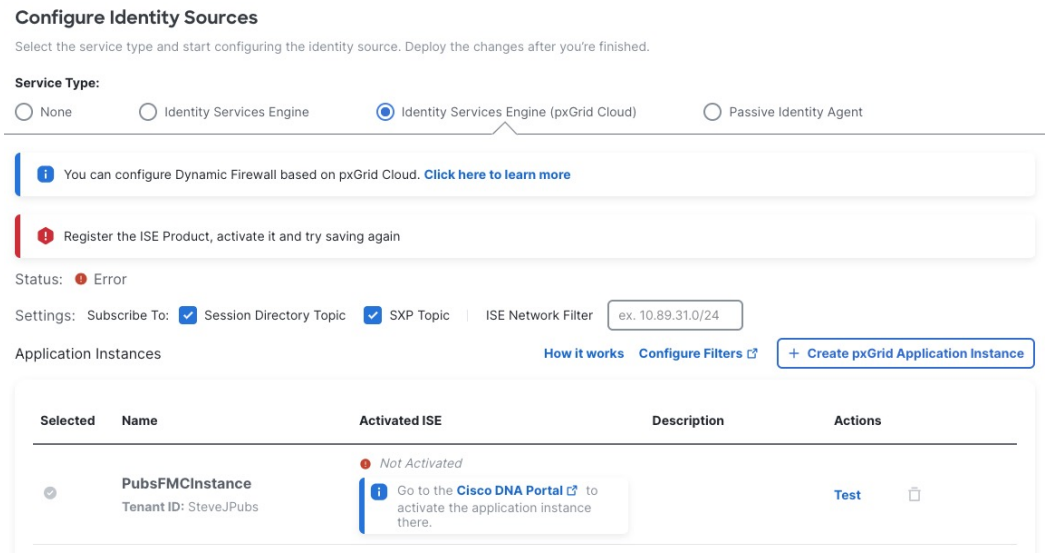
a) Log in to Security Cloud Control.

b) Click **Policies** > **Threat Defense** > **Integration** > **Identity** > **Identity Sources**

c) Click **Identity Services Engine (pxGrid Cloud)**.

d) Verify that **Not Activated** is displayed in the Activated ISE column.

Example:



What to do next

- To register Cisco ISE with pxGrid Cloud and activate the app instance, see:
  - ISE 3.3 and earlier: Register Cisco ISE with the Catalyst Cloud Portal.
  - ISE 3.4 and later: Create an app instance, on page 9.
- To completely remove the identity source, see Delete the pxGrid Cloud identity source.

Delete the pxGrid Cloud identity source

Delete the pxGrid Cloud identity source from Security Cloud Control when you no longer need it.

This task explains how to delete the pxGrid Cloud identity source from Security Cloud Control, which is necessary if you do not want to use it again.

Before you begin

Deactivate the FMC app instance from the Catalyst Cloud Portal as discussed in Deactivate the pxGrid Cloud app instance.

Follow these steps to delete the pxGrid Cloud identity source:

Procedure

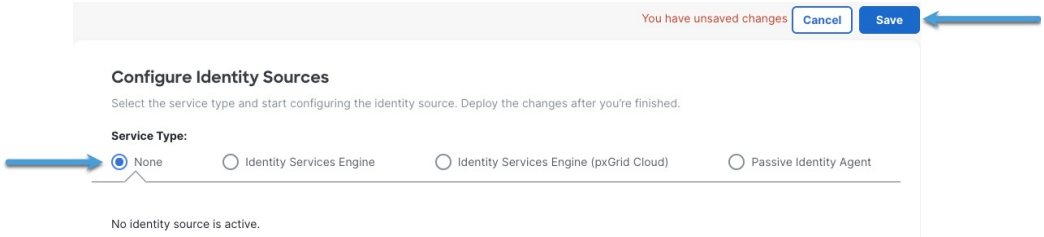
Step 1 Log in to Security Cloud Control as a user with the Super Admin role.

Click **Policies** > **Threat Defense** > **Integration** > **Identity** > **Identity Sources**.

Step 2 Click **Identity Services Engine (pxGrid Cloud)**.

Step 3 For Service Type, click **None**.

Example:



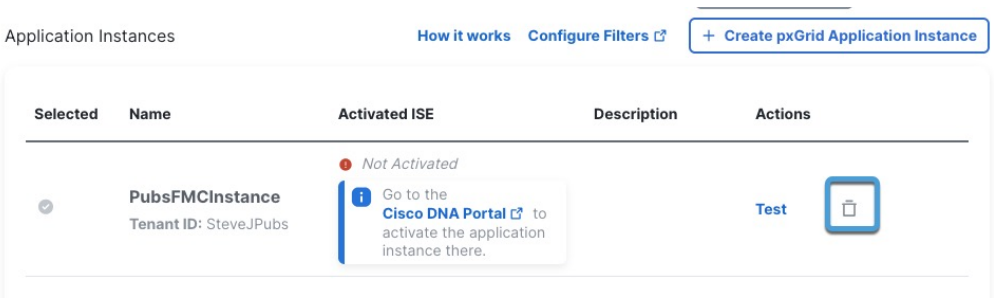
Step 4 Click **Save**.

Step 5 Confirm your choice when prompted.

Step 6 Click **Identity Services Engine (pxGrid Cloud)**.

Step 7 Click **Delete** ( ).

Example:



Step 8 Confirm the action when prompted.