Configure Authorization Flow for Passive ID Sessions in ISE 3.2

Contents

Introduction

This document describes how to configure Authorization rules for Passive ID events to assign SGTs to the sessions.

Background Information

Passive identity services (Passive ID) do not authenticate users directly, but gather user identities and IP addresses from external authentication servers such as Active Directory (AD), known as providers, and then share that information with subscribers.

ISE 3.2 introduces a new feature that allows you to configure an authorization policy to assign a Security Group Tag (SGT) to a user based on the Active Directory group membership.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco ISE 3.X
- Passive ID integration with any provider
- Active Directory (AD) administration
- Segmentation (Trustsec)
- PxGrid (Platform Exchange Grid)

Components Used

- Identity Service Engine (ISE) software version 3.2
- Microsoft Active directory
- Syslogs

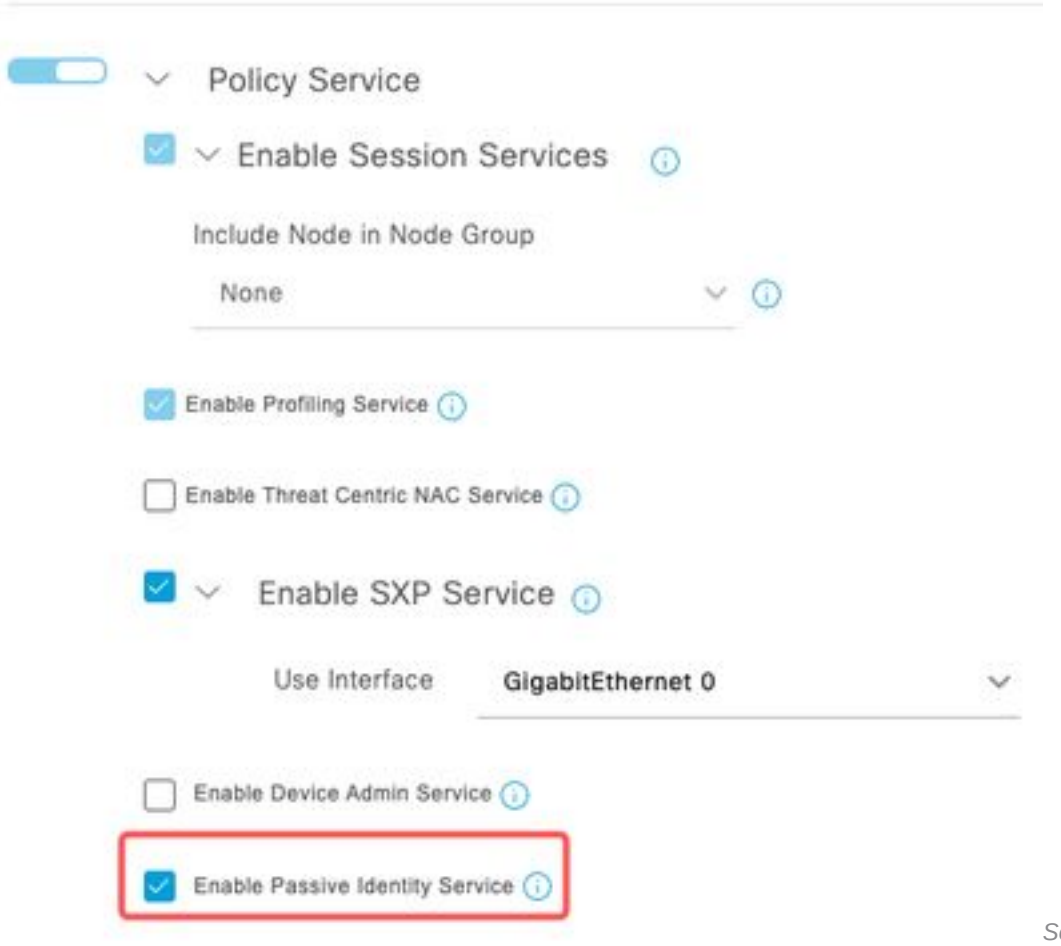
The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Configuration

Step 1. Enable ISE Services.

1. On ISE, navigate to **Administration** > **Deployment**, choose the ISE node and click **Edit**, enable **Policy Service** and choose **Enable Passive Identity Service**. Optional, you can enable SXP and PxGrid if the passive id sessions need to be published through each one. Click **Save**.

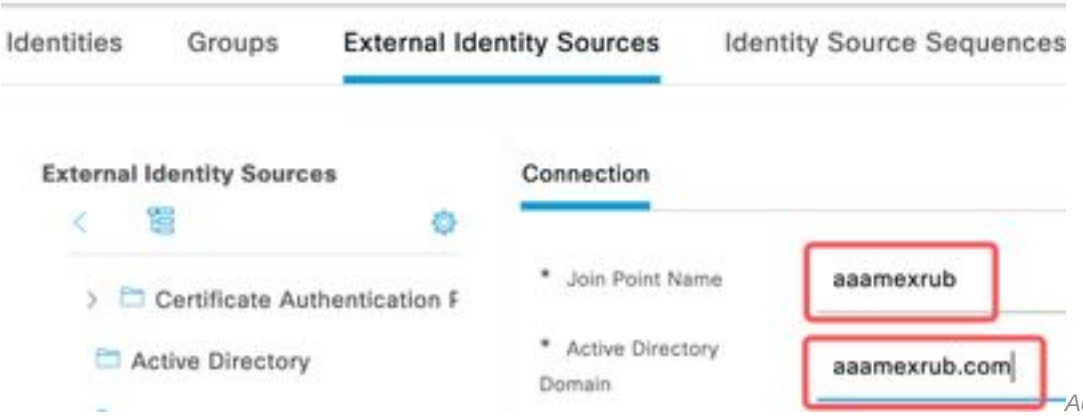
   Warning: SGT details of the PassiveID login users that are authenticated by API provider cannot be published into SXP. However, the SGT details of these users can be published through pxGrid and pxGrid Cloud.



Services Enabled

Step 2. Configure the Active Directory.

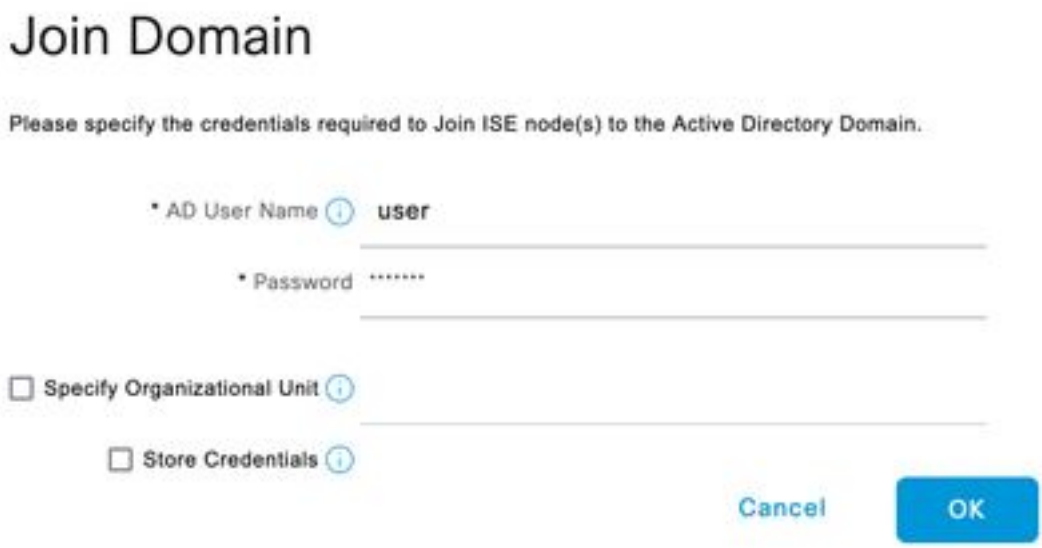
1. Navigate to **Administration** > **Identity Management** > **External Identity Sources** and choose **Active directory** then click the **Add** button.
2. Enter the **Join Point Name** and **Active Directory Domain**. Click **Submit**.



Add Active Directory

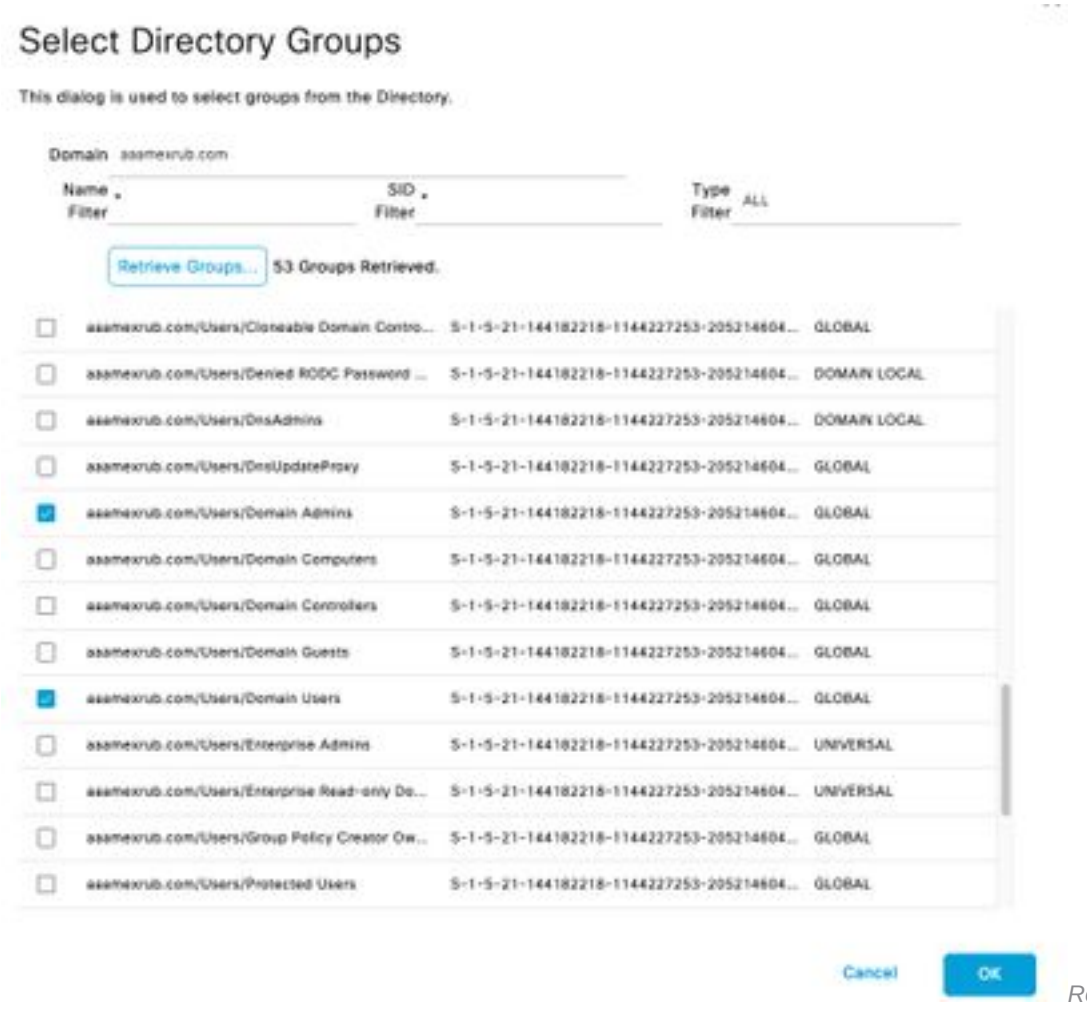
3. A pop up appears to join ISE to the AD. Click **Yes**. Enter the **Username** and **Password**. Click **OK**.

Continue to join

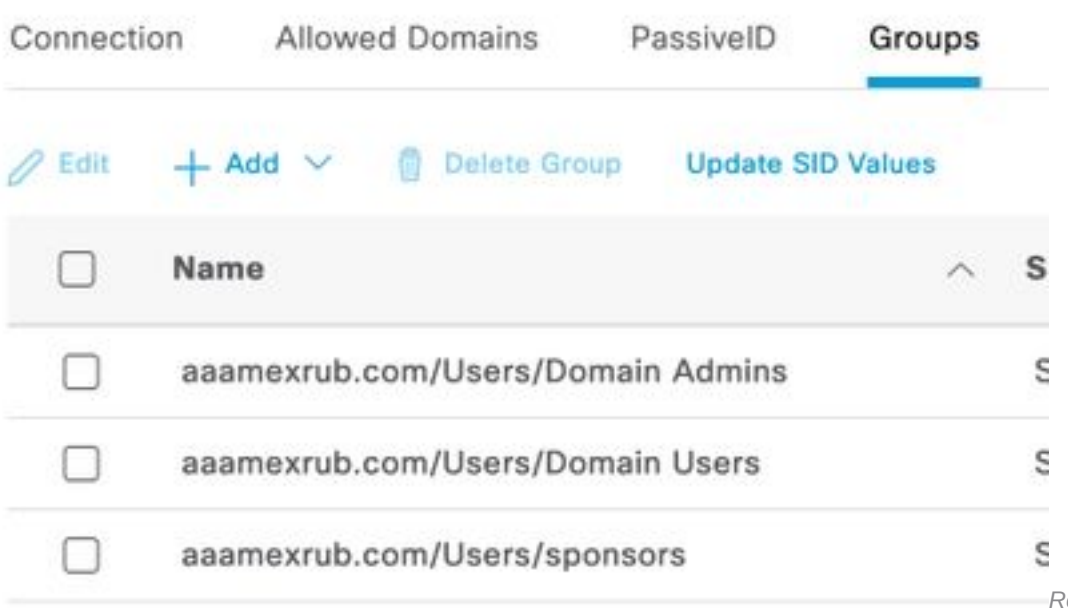


ISE *Join Active Directory*

4. Retrieve AD groups. Navigate to **Groups**, click **Add**, then click **Retrieve Groups** and choose all the interested groups and click **OK**.

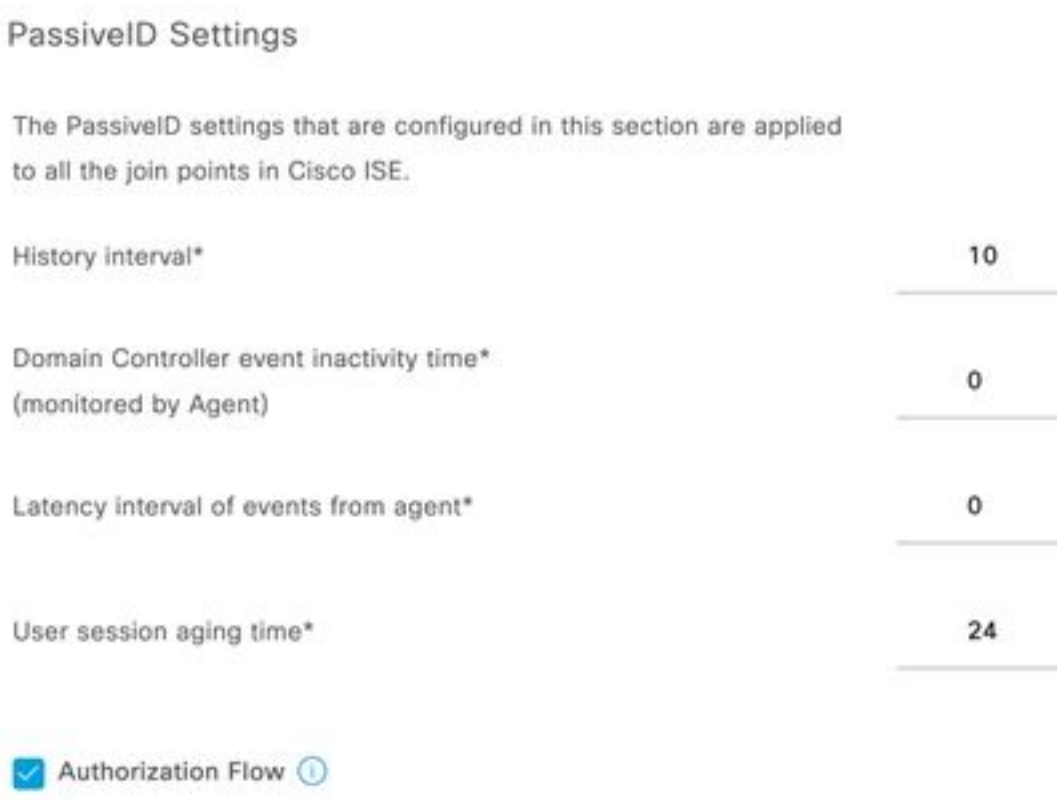


Retrieve AD groups



Retrieved Groups

5. Enable Authorization flow**.** Navigate to **Advance Settings** and in the section **PassiveID Settings** check the **Authorization Flow** checkbox. Click **Save**.

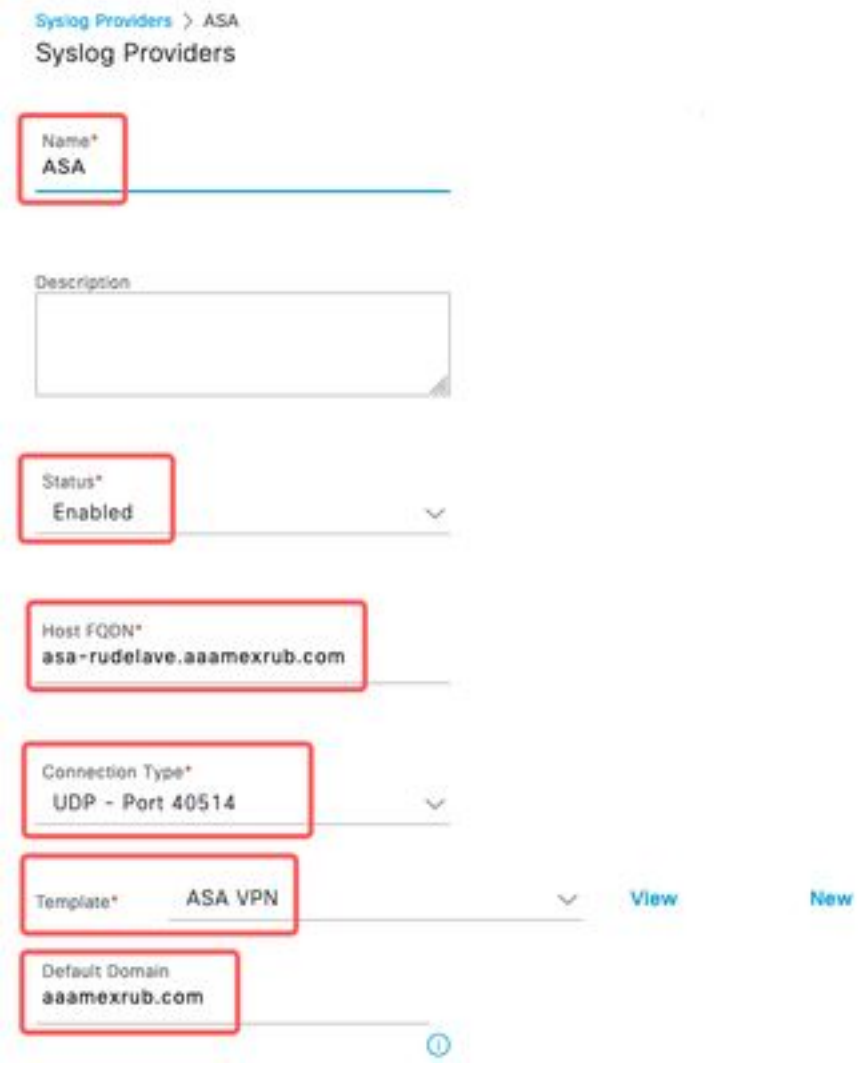


Enable Authorization Flow

Step 3. Configure Syslog provider.

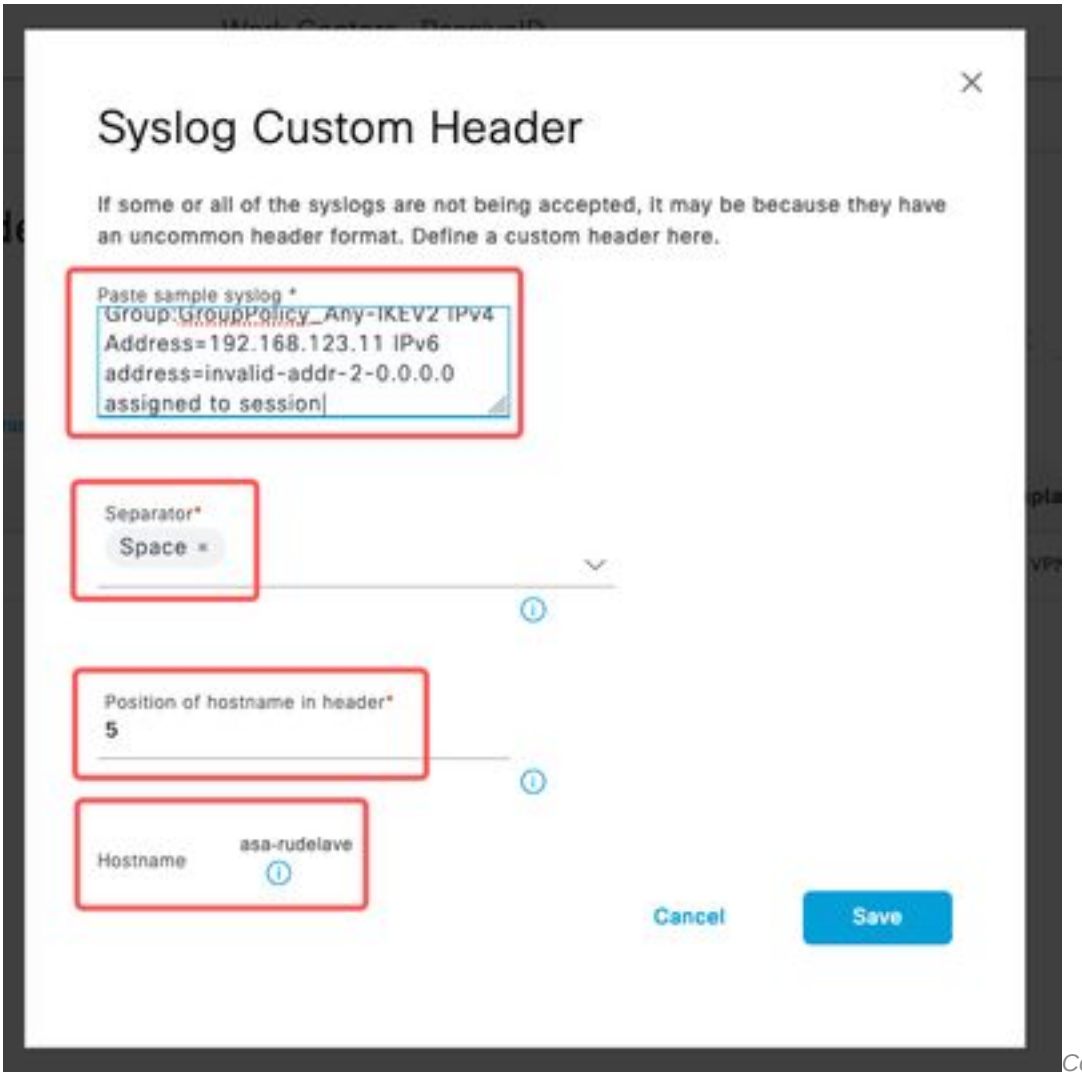
1. Navigate to **Work Centers** > **PassiveID** > **Providers**, choose **Syslog Providers**, click **Add** and complete the information. Click **Save**

   Caution: In this case, ISE receives the syslog message from a successful VPN connection in an ASA, but this document does not describe that configuration.



Configure Syslog provider

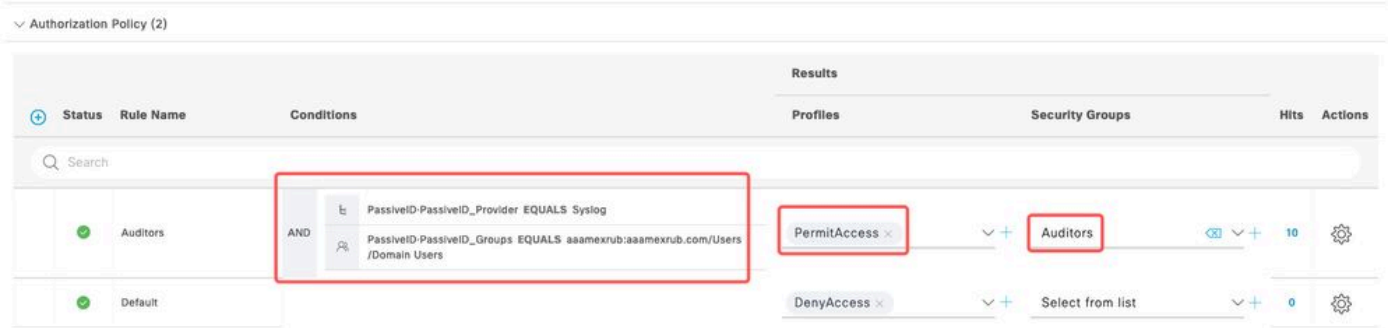
2. Click **Custom Header**. Paste the sample syslog and use a Separator or Tab to find the device hostname. If it is correct, the Hostname appears. Click **Save**



Configure Custom Header

Step 4. Configure Authorization rules

1. Navigate to **Policy** > **Policy Sets.** For this case, it uses the Default policy. Click the **Default** policy. In the **Authorization Policy**, add a new rule. In the PassiveID policies, ISE has all the providers. You can combine this one with a PassiveID group. Choose **Permit Access** as Profile, and in **Security Groups** choose the need it SGT.



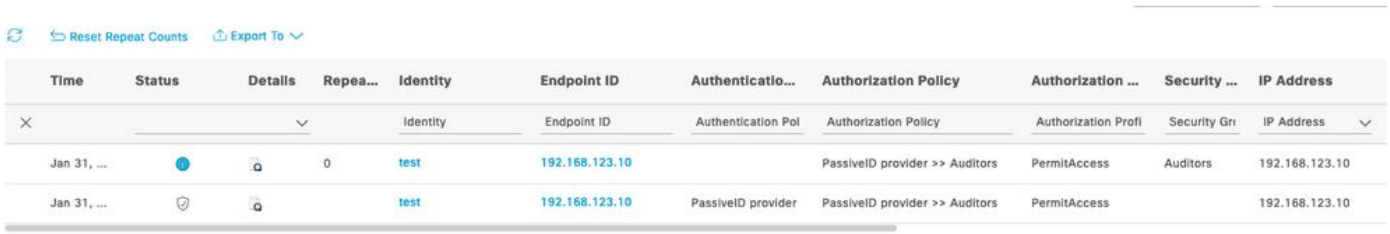
Configure Authorization Rules

Verify

Once ISE receives the Syslog, you can check the Radius Live Logs to see Authorization Flow. Navigate to **Operations** > **Radius** > **Live logs**.

In the logs you can see the Authorization event. This one contains the Username, Authorization

Policy and Security Group Tag associated with it.

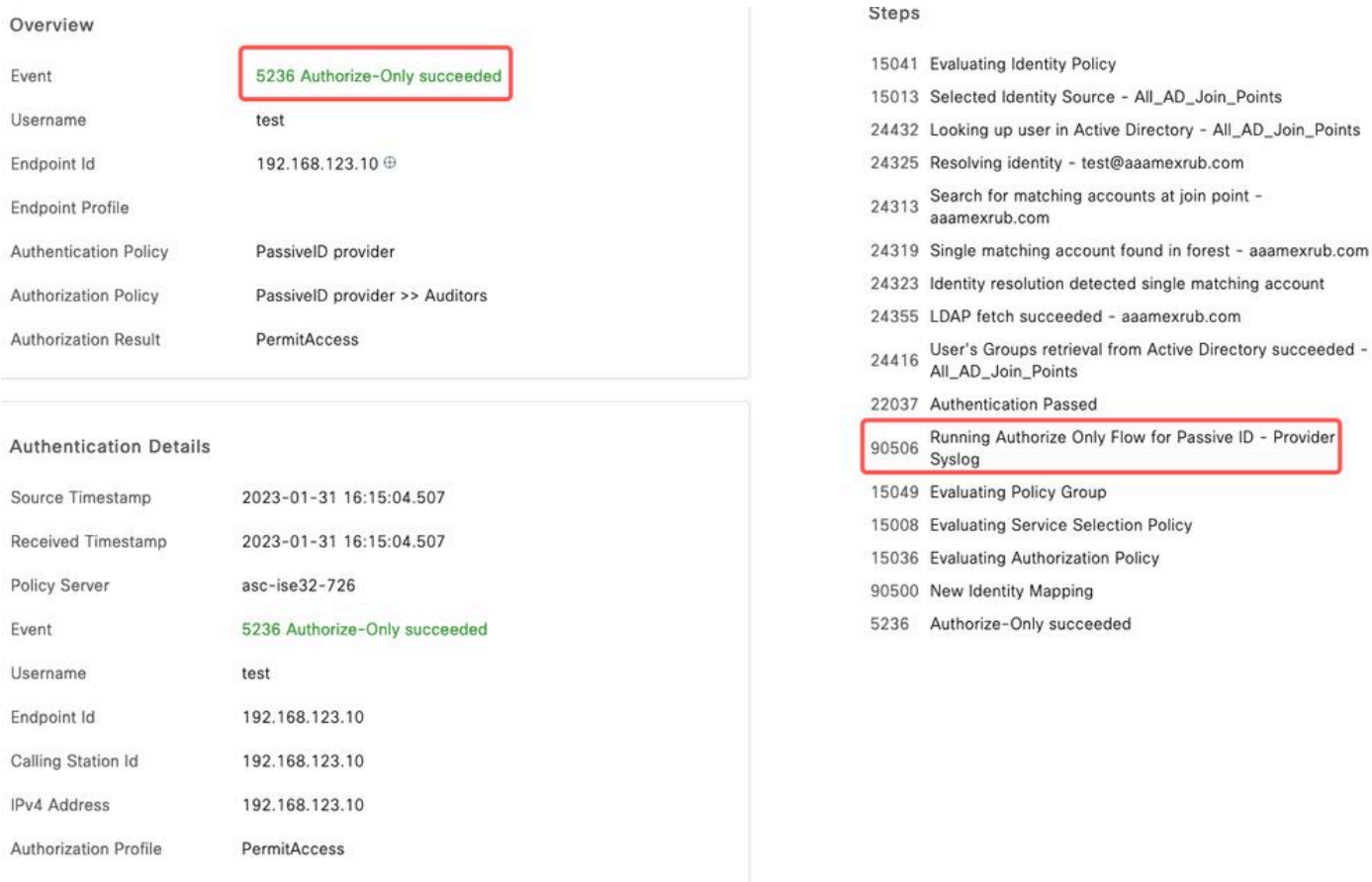


Reset Repeat Counts | Export To

Time	Status	Details	Repea...	Identity	Endpoint ID	Authenticatio...	Authorization Policy	Authorization ...	Security ...	IP Address
Jan 31, ...			0	test	192.168.123.10		PassiveID provider >> Auditors	PermitAccess	Auditors	192.168.123.10
Jan 31, ...				test	192.168.123.10	PassiveID provider	PassiveID provider >> Auditors	PermitAccess		192.168.123.10

Radius Live Log

To check more details, click the **Detail Report**. Here you can see the Authorize-Only flow that evaluates the Policies to assign the SGT.



Overview

Event	5236 Authorize-Only succeeded
Username	test
Endpoint Id	192.168.123.10
Endpoint Profile	
Authentication Policy	PassiveID provider
Authorization Policy	PassiveID provider >> Auditors
Authorization Result	PermitAccess

Authentication Details

Source Timestamp	2023-01-31 16:15:04.507
Received Timestamp	2023-01-31 16:15:04.507
Policy Server	asc-ise32-726
Event	5236 Authorize-Only succeeded
Username	test
Endpoint Id	192.168.123.10
Calling Station Id	192.168.123.10
IPv4 Address	192.168.123.10
Authorization Profile	PermitAccess

Steps

15041	Evaluating Identity Policy
15013	Selected Identity Source - All_AD_Join_Points
24432	Looking up user in Active Directory - All_AD_Join_Points
24325	Resolving identity - test@aaamexrub.com
24313	Search for matching accounts at join point - aaamexrub.com
24319	Single matching account found in forest - aaamexrub.com
24323	Identity resolution detected single matching account
24355	LDAP fetch succeeded - aaamexrub.com
24416	User's Groups retrieval from Active Directory succeeded - All_AD_Join_Points
22037	Authentication Passed
90506	Running Authorize Only Flow for Passive ID - Provider Syslog
15049	Evaluating Policy Group
15008	Evaluating Service Selection Policy
15036	Evaluating Authorization Policy
90500	New Identity Mapping
5236	Authorize-Only succeeded

Radius Live log Report

Troubleshoot

For this case, it uses two flows; the passiveID sessions and the Authoriation flow. To enable the debugs, navigate to **Operations** > **Troubleshoot** > **Debug Wizard** > **Debug Log Configuration,** then choose the ISE node.

For the PassiveID, enable the next components to **DEBUG** level:

- PassiveID

To check the logs, based on the Passive ID provider, the file to check for this scenario, you need to review the **file** passiveid-syslog.log, for the other providers:

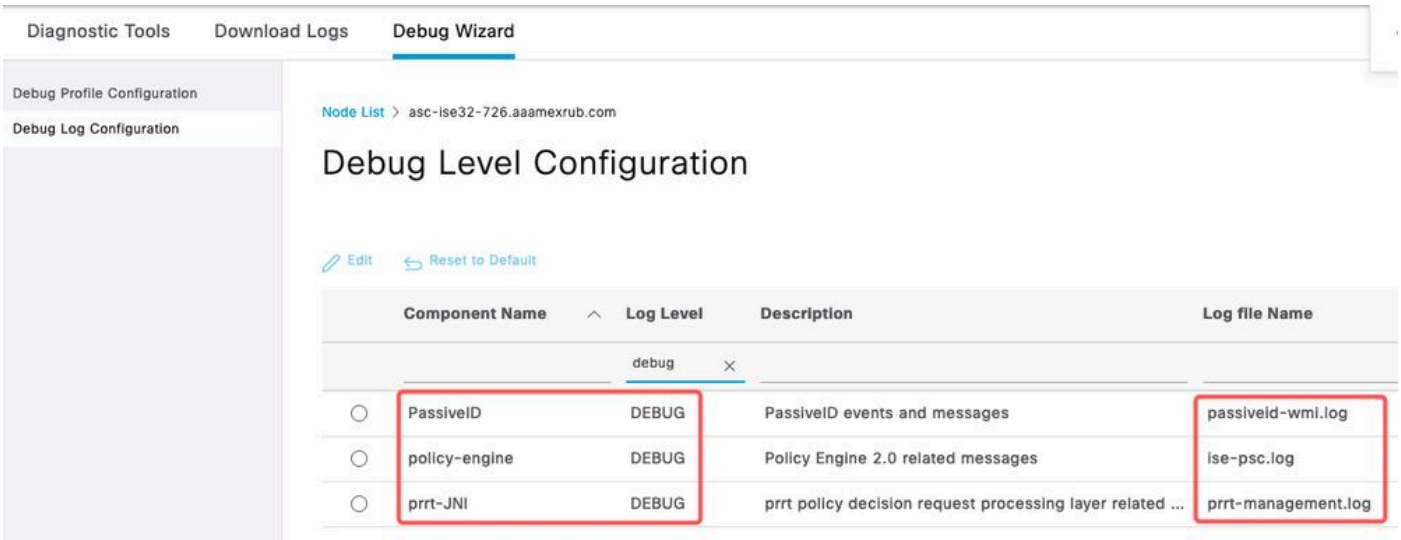
- passiveid-agent.log
- passiveid-api.log

- passiveid-endpoint.log
- passiveid-span.log
- passiveid-wmilog

For the Authorization Flow, enable the next components to **DEBUG** level:

- policy-engine
- prrt-JNI

Example:



Debugs enabled