

Cisco ISE 2.1 Guest Portal with SAML login option plus Sponsor Portal filtered pending accounts

Developers and Lab Proctors

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Lab Overview

This lab is designed to help attendees understanding new and key features in Cisco Identity Services Engine (ISE) Release 2.1 around the integration of SAML SSO and Guest Credentials into a single portal. It expands on the capabilities of ISE 1.4 which allowed ISE web auth portals to integrate directly with Oracle Access Manager. ISE 2.1 supports more providers out of the box including SAML 2.0 standards. We will also show a new feature that allows filtering of Sponsor portal pending accounts list to only show the accounts that are destined for that sponsor.

In this environment we showcase how we are using PingFederate along with a single guest portal to allow guests and SAML SSO (ex: employees) to login to a single guest portal which also allowed a single Wireless LAN (SSID). Prior to this release guest and SAML SSO portals had to be separated and would require more than 1 Wireless LAN (SSID).

When working with SAML integration the following terms are used:

Identity Provider (IdP) – in this case its PingFederate

Service Provider (SP) – this is your ISE portal

These new providers are also supported for access to Sponsor, My Devices and Certificate Provisioning Portals.

Lab participants should be able to complete the lab within the allotted time of 1.5 hours.

It is recommended that you are familiar with the Guest and Sponsor capabilities before taking this lab as we will not be showing how those work.

Lab Exercises

This lab guide includes the following exercises:

- Lab Exercise 1.1: Configure ISE SAML IdP & Portal Basics
- Lab Exercise 1.2: Configure PingFederate IdP for ISE Guest Web Auth Portal
- Lab Exercise 1.3: Configure PingFederate IdP for ISE Sponsor Portal
- Lab Exercise 1.4: Finalize configuration of ISE IdP and Sponsor settings
- Lab Exercise 1.5: Guest Web Auth & Sponsor Portal Usage with SAML SSO features
- Lab Exercise 1.6: Review some common logs

Lab Exercise 1: ISE & PingFederate SAML Config

Lab Exercise 1.1: Configure ISE SAML IdP & Portal Basics

Exercise Description

In this exercise you will configure a SAML Identity Provider on ISE. This IdP will be used with your Guest and Sponsor Portals for single-sign on. This IdP will be used as the authentication provider used for a sub-portal which is mapped to on a Main Portal.

This gives you the capability of having a single portal (or entry point) into your network to handle both your guest and employee SSO logins. This single entry point can accommodate both types of users a single wireless lan (SSID) or wired network. Without this capability an administrator would have to configure 2 separate SSIDs to handle the different type of users. This is not a good user experience to have to worry about different open networks. On a wired network it wouldn't be possible to have a redirection that would handle both without this newly added feature.

Each ISE Portal that is using the IdP for SSO will be an SP. Here we are going to configure the Guest Portal using SSO and Sponsor Portal for Guest Access Management as a SP by pointing them to the PingFederate IdP.

The same configuration can be used with My Devices and Certificate Provisioning Portals. We won't be covering them in this lab.

Exercise Objective

In this exercise, your goal is to complete the following tasks:

- Add PingFederate SAML IdP to ISE
- Create a Subportal for use with PingFederate SAML IdP
- Configure Main Guest Portal to use Sub-portal for SAML SSO

Exercise Steps

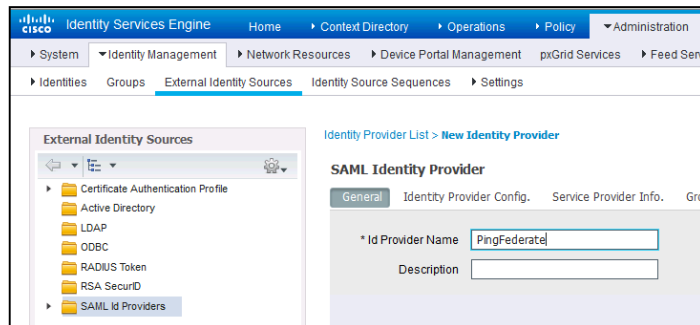
In the following steps you will setup PingFederate as a SAML IdP on ISE. In order to get the needed SAML Metadata from ISE you will have to do some basic setup and identification of the portals that are going to be used with the PingFederate solution.

Step 1 From the Admin PC, launch **Firefox** to go to <https://ise.demo.local> and login with **admin/ISEisC00L**

Step 2 Navigate to **Administration > Identity Management > External Identity Sources > SAML Id Providers**

Step 3 Click **Add**

Step 4 Under **General** enter an **Id Provider Name**

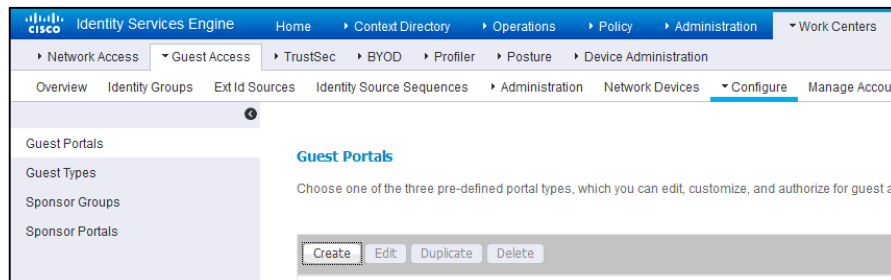


Step 5 Click **Submit**

In the following steps you will create a **Guest Sub Portal** that uses the **PingFederate** IDP for **SAML SSO**.

Step 6 Navigate to **Work Centers > Guest Access > Configure > Guest Portals**

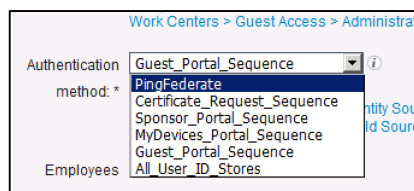
Step 7 Click **create** and select **Self-Registered Guest Portal** (it doesn't matter if this is **Sponsored** or **self-registered** portal as this portal will simply point to a **SAML** provider for login).



Step 8 Click **Continue**

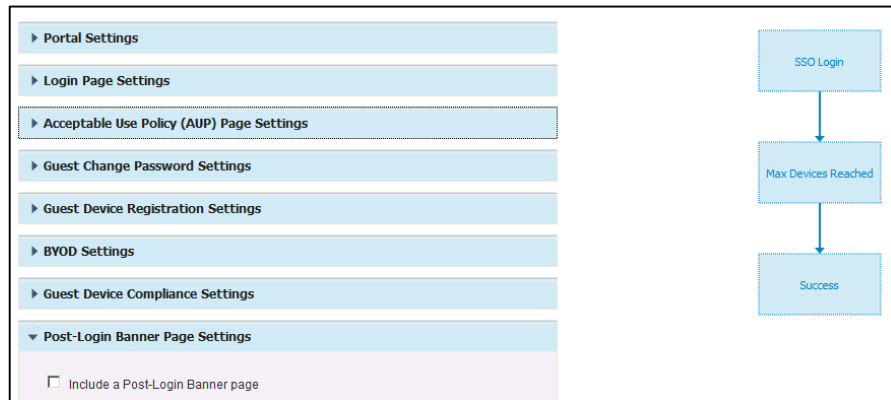
Step 9 Name the portal – **MySubPortalForSSO**

Step 10 Expand **Portal Settings** and select **PingFederate**



Step 11 Expand **Acceptable Use Policy (AUP)** and **Post-Login Banner Page Settings** and uncheck the options

Notice the portal flow is going to use **SSO** for login. This is the portal that our main portal will redirect the user to for the **SSO** capabilities with **PingFederate**.



Step 12 Save the portal

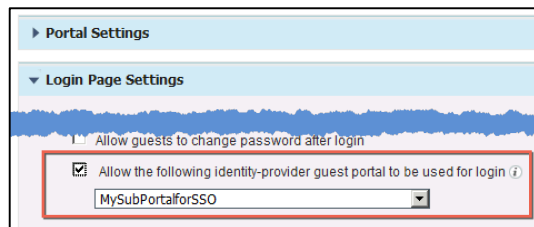
In the following steps you will map the Sub Portal used for SSO to a new Main Portal allow Guest Credential or SAML SSO portal access

Step 13 Click **Close** to bring back the list of Guest Portals (or Navigate back to **Guest Portals** listing)

Step 14 Click **Create** and choose the **Self-registered Guest Portal** and click **Continue**.

Step 15 Name the portal **MainPortal**

Step 16 Expand **Login Page Settings** and choose your Guest Sub Portal for SSO



Step 17 Expand **Self-Registration Page Settings**

Step 18 Set the guest account requirement for approval. This will allow us to work with the filtering guest accounts pending account approval.

- Check the box for **require self-registered guests to be approved**
- In the pull down for Email approval request to: Select **person being visited** (which is your sponsor)

Note: The following 3 settings are not required to test this out but will be closer to the experience you would want a user to go through. We set the requirements to minimize the amount of pages the user must go through and to provide appropriate messaging for the desired flow

Step 19 Under After registration submission, direct guest to, choose the option: **Login page with instructions about how to obtain login credentials**

Step 20 Under Send credential notification upon approval using: Check the box for **Email**

Require self-registered guests to be approved
Work Centers > Guest Access > Settings > Guest Email Settings
Email approval request to: person being visited

Enter a comma-separated list of email addresses

After registration submission, direct guest to

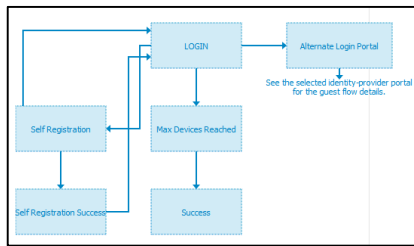
Self-Registration Success page
 Login page with instructions about how to obtain login credentials
 URL: _____

Send credential notification upon approval using:

Email
 SMS

Step 21 Expand **Acceptable Use Policy (AUP)** and **Post-Login Banner Page Settings** and uncheck those options.

Notice the updated flow diagram showing the Main Portal linked to another portal for the SSO function.





Step 22 Navigate to **Portal Page Customization > Pages > Login**

Step 23 Scroll down and notice the new option to customize the alternate login

Alternative login: You can also login with (static text)

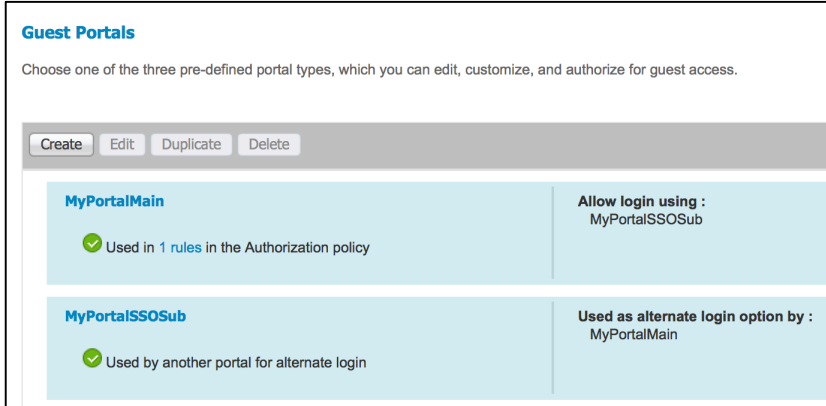
Alternative login access portal: MySubPortalForSSO

Use this text: Alternative Login Portal as link as icon tooltip

Icon ...  

Step 24 Click **Save**

Note: After you have configured your main portal (for guest that also uses the SSO sub-portal) and sub-portal (for SSO) you will see a similar portal message. In this lab we are not working with the Authorization Policies so what you have will look close (without the green checkboxes). All the testing for this was done with the portal test URLs. If order to work in your production environment



you will need to make sure your authorization policies for CWA (guest credentialed portal) are setup to use the MyPortalMain

Configure the Sponsor Portal to use an easy url (FQDN) for access and point it to the PingFederate IDP for SAML SSO.

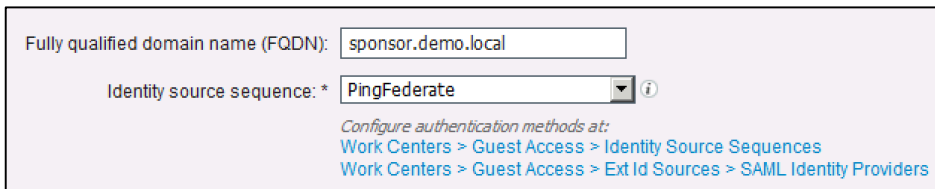
Step 25 Navigate to **Work Centers > Guest Access > Configure > Sponsor Portals**

Step 26 Click on **Sponsor Portal (default)**

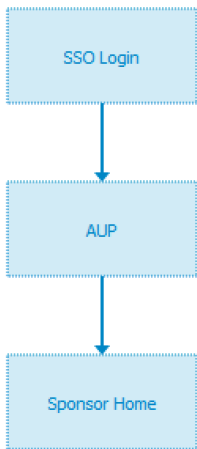
Step 27 Expand **Portal Settings**

Step 28 Under the FQDN section enter: **sponsor.demo.local**

Step 29 Under Identity Source Sequence select **PingFederate**.



Note: Notice the flow the sponsor will go through is reflected in the built-in flow model



Step 30 Click **Save**

End of Exercise: You have successfully completed this exercise. Proceed to next section.

Lab Exercise 1.2: Configure PingFederate IdP for ISE Guest Web Auth Portal

Exercise Description

In this exercise you will go over the Ping Federated IdP configuration needed to work with ISE as an IdP for the Guest WebAuth Portal SP. You will export the needed SP information from ISE for the Guest WebAuth and Sponsor portals you configured before. You will also export the needed SAML XML files from the IdP to import onto ISE.

Exercise Objective

In this exercise, your goal is to complete the following tasks to setup PingFederate to work with the Guest WebAuth Portal:

- Export of the ISE SP information for the Guest Web Auth and Sponsor Portals
- Configuration of the ISE Guest WebAuth Portal on PingFederate as a Service Provider.

Exercise Steps

In these steps you will configure PingFederate as an IDP for ISE to use for SSO and the ISE Guest WebAuth Portal

On ISE we are getting the Metadata to import on the IdP (PingFederate). Each ISE Portal that is using SSO is going to be its own SP (Service Provider) and will need to be configured to use the IdP. Because of this, the XML file you export from ISE IdP settings will need to have each portal you want to use for SSO populated in it. The XML you export from ISE is imported into the IDP (Ping Federate). The IdP also has an XML file that is imported into ISE IdP config.

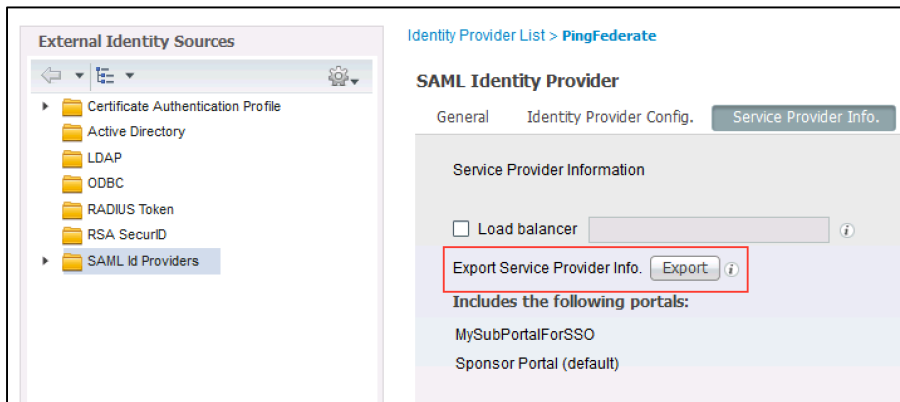
Step 1 From the Admin PC, launch **Firefox** to go to <http://ise-1.demo.local>

Step 2 Navigate to **Administration > Identity Management > External Identity Sources > SAML Id Providers > PingFederate**

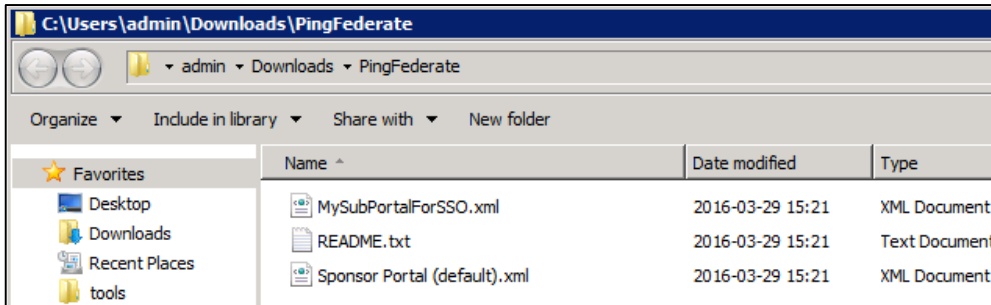
Step 3 Click **Service Provider Info**

Note: There is an entry for each of the portals you have configured to use PingFederate as an IdP. Each of these portals is considered an SP. The information for each portal will be included in the XML Metadata that you will export to use on the IdP.

Step 4 Click **Export** and **Save** the .Zip file (PingFederate.Zip)



Step 5 After the save of the Zip package you will need to extract it, navigate using File Explorer on the windows admin machine to the **download directory** and **extract all**. You will see 3 files. Each XML file is used for a different portal as the SP config on the SAML server.



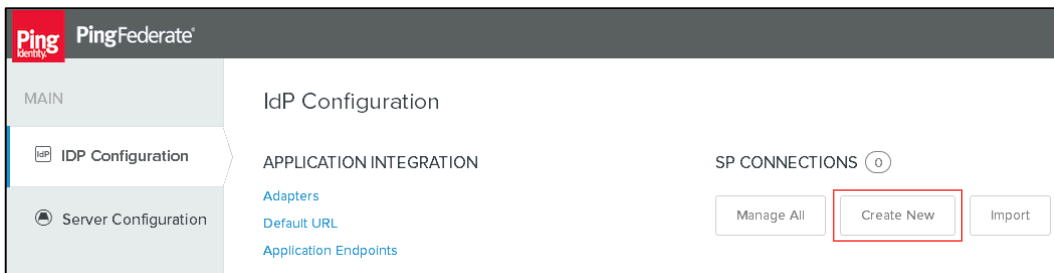
You will now configure the PingFederate IdP to use ISE SP Guest WebAuth Portal. The configuration is the same for My Devices and Certificate Provisioning Portals (which we are not covering).

Step 6 From the Admin PC, launch **Firefox** to go to <https://pf.demo.local:9999/pingfederate/app> and login with **admin/ISEisC00L**

Step 7 Navigate to **IDP Configuration**

Step 8 Click **Create New**

Note: When going through these steps, don't let the page timeout, Ping doesn't like this and will cause you to have to delete your config and start over as Ping doesn't save your settings well. You can try using Save Draft but I haven't had good luck with that.



Step 9 Under Connection Type, Click **Next**

Lab Exercise 1.2: Configure PingFederate IdP for ISE Guest Web Auth Portal

Connection Type	Connection Options	Import
Select the type of connection needed for this SP: Browser SSO (for provisioning users/groups to an SP) or all.		
CONNECTION TEMPLATE		No Template
<input checked="" type="checkbox"/>	BROWSER SSO PROFILES	PROTOCOL SAML 2.0
<input type="checkbox"/>	WS-TRUST STS	
<input type="checkbox"/>	OUTBOUND PROVISIONING	

Step 10 Under Connection Options, Click **Next**

Please select options that apply to this connection.

BROWSER SSO

IDP DISCOVERY

ATTRIBUTE QUERY

Step 11 Under Import Metadata, choose **File** and select the **MySubPortalForSSO.xml** this will be used to setup PingFederate for ISE SSO WebAuth Guest Portal as an SP, click **Next**

If you have received metadata from the partner, import the file or URL here to populate the metadata. Automatic Reloading.

METADATA NONE FILE URL

MySubPortalForSSO.xml

Step 12 On Metadata Summary page, click **Next**

Step 13 On the General info page, change the Connection Name to **ISEGuestWebAuth** and click **Next**

This information identifies your partner's unique connection identifier (Connection ID). Connection Name represents the name of your own server to use when communicating with this partner. If set, these virtual server IDs will be used in place of the partner's IDs used to simplify configuration of partner endpoints.

PARTNER'S ENTITY ID (CONNECTION ID)

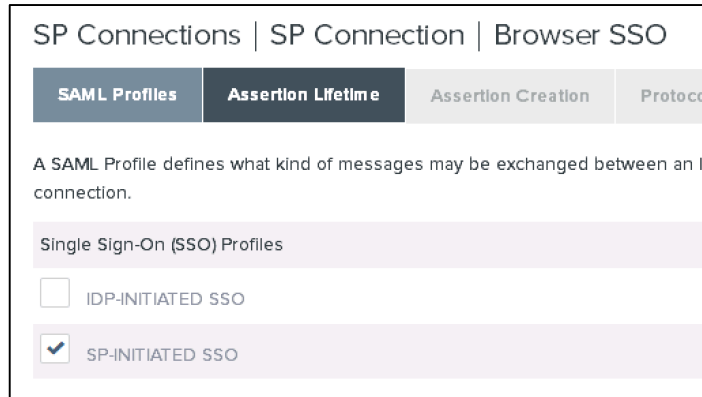
CONNECTION NAME

Step 14 Click Configure Browser SSO

Step 15 Under SAML Profiles check the following options:

- a. Single Sign-On (SSO Profiles)
 - i. SP-INITIATED SSO

Note: Since the Guest Web Auth portal (SP) only initiates SSO to Ping that's the only check box we use here. For sponsor (and perhaps Certificate and My Devices) portal it would be different as these portals have sign out options.



Step 16 Click Next

Step 17 Under Assertion Lifetime click **Next**

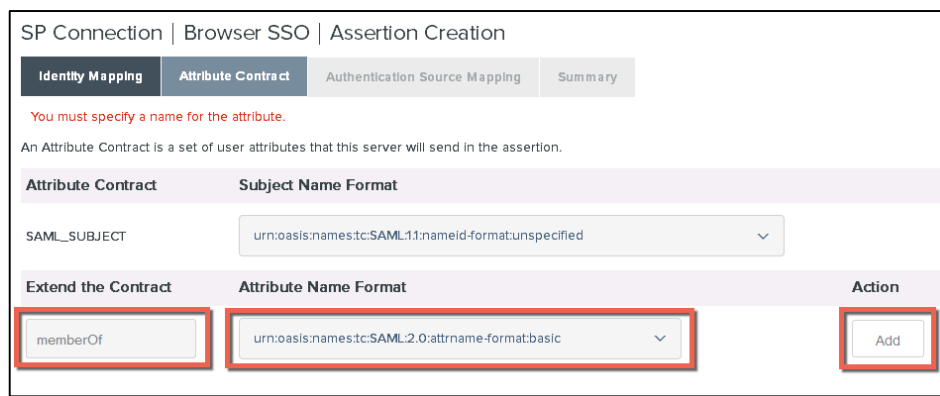
Step 18 Under Assertion Creation click **Configure Assertion Creation**

Step 19 Under Identity Mapping, click **Next**

Step 20 Under Attribute Contract > Extend the Contract

- a. Enter **memberOf** with default Attribute Name Format and click **Add**

Note: This is needed to send back to ISE the group membership that can be used for the ISE authorization rules and differentiation of access depending on what user logged into the portal (Example: contractors vs employees). This is used where ISE will be needing user group information (Certificate Provisioning) and Sponsor Groups



Step 21 Click **Add**

Step 22 Click **Next**

Step 23 Under Authentication Source Mapping, click **Map New Adapter Instance**

Step 24 Select **HTML Form Adapter**

SP Connection | Browser SSO | Assertion Creation

Adapter Instance | Mapping Method | Attribute Contract Fulfillment

Select an IdP adapter instance that may be used to authenticate users for partner.

ADAPTER INSTANCE: HTML Form Adapter

Adapter Contract

- givenName
- mail
- memberOf
- objectGUID
- sn
- username
- userPrincipalName

OVERRIDE INSTANCE SETTINGS

Step 25 Click **Next**

Step 26 Under Mapping Method choose the middle option at the bottom of the page

RETRIEVE ADDITIONAL ATTRIBUTES FROM MULTIPLE DATA STORES USING ONE MAPPING

RETRIEVE ADDITIONAL ATTRIBUTES FROM A DATA STORE -- INCLUDES OPTIONS TO USE ALTERNATE DATA STORES AND/OR A FAILSAFE MAPPING

USE ONLY THE ADAPTER CONTRACT VALUES IN THE SAML ASSERTION

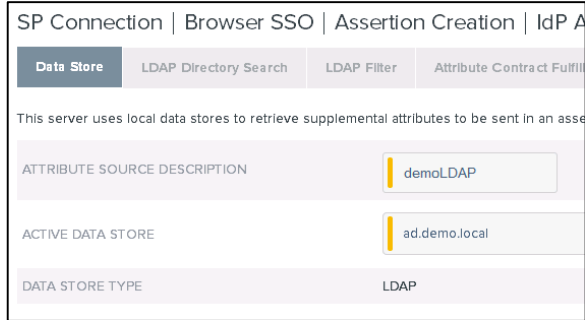
Step 27 Click **Next**

Step 28 Under Attribute Sources & User Lookup click **Add Attribute Source**

Step 29 Under Data Store enter the following:

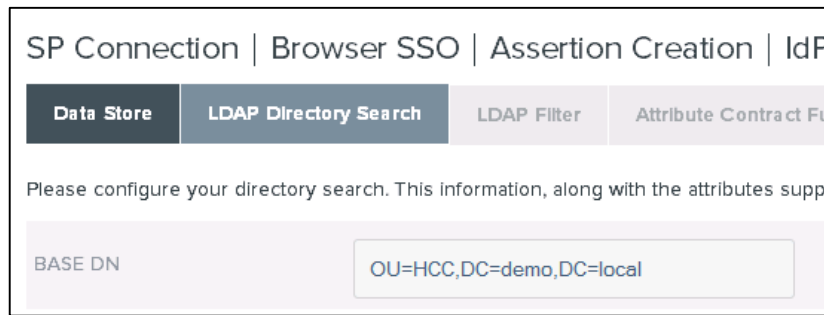
- a. Attribute Source Description: **demoLDAP**
- b. Active Data Store: select **ad.demo.local**

Note: PingFederate is communicating with the AD/LDAP server environment in these flows. ISE does not communicate to AD directly.



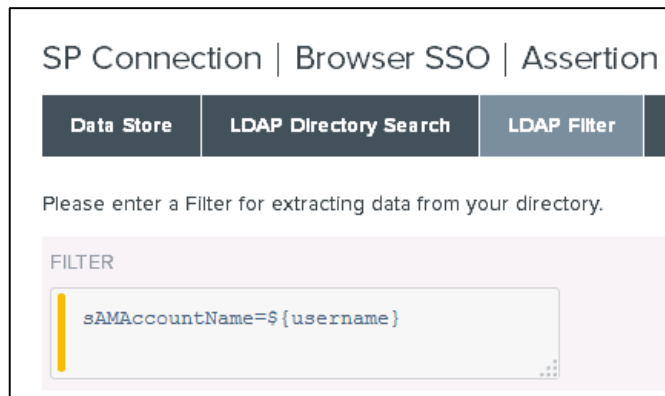
Step 30 Click **Next**

Step 31 Under LDAP Directory Search enter the Base DN as **OU=HCC,DC=demo,DC=local**



Step 32 Click **Next**

Step 33 Under LDAP Filter, enter **sAMAccountName=\${username}**



Step 34 Click **Next**

Step 35 Under **Attribute Contract Fulfillment**

- a. Enter the following for Attribute Contract - SAML_SUBJECT:
 - i. Source: **Adapter**
 - ii. Value: **username**
- b. Enter the following for Attribute Contract – memberOf:
 - i. Source: **Adapter**
 - ii. Value: **memberOf**

Note: Like the settings before, you will need the memberOf information to be able to use the solution. This is also needed for Sponsor, My Devices and Certificate Provisioning.

SP Connections | SP Connection | Browser SSO | Assertion Creation | IdP Adapter Mapping

Data Store | LDAP Directory Search | LDAP Filter | **Attribute Contract Fulfillment** | Summary

Fulfill your Attribute Contract with values from the authentication adapter, dynamic text values, or from a data store lookup.

Attribute Contract	Source	Value
SAML_SUBJECT	Adapter	username
memberOf	Adapter	memberOf

Step 36 Click Next

Step 37 Validate Summary

SP Connection | Browser SSO | Assertion Creation | IdP Adapter Mapping | **Attribute Sources**

Data Store | LDAP Directory Search | LDAP Filter | **Summary**

Attribute Source Summary

Attribute Sources & User Lookup

Data Store	
Attribute Source	demoLDAP
Type of Data Store	LDAP
Data Store	ad.demo.local
LDAP Directory Search	
Base DN	OU=HCC,DC=demo,DC=local
Search scope	SUBTREE_SCOPE
Attribute	Subject DN
LDAP Filter	
Filter	sAMAccountName=\${username}
Attribute Contract Fulfillment	
memberOf	memberOf (Adapter)
SAML_SUBJECT	username (Adapter)

Step 38 Click **Done**.

Step 39 Under Attribute Sources & User Lookup, click **Next**

Step 40 Under Failsafe Attribute Source, click **Next**

Step 41 Under Attribute Contract Fulfillment select the following:

- a. For Attribute Contract: **SAML_SUBJECT**
 - i. Source: **Adapter**
 - ii. Value: **username**
- b. For Attribute Contract: **memberOf**
 - i. Source: **Text**
 - ii. Value: **no group found**

Note: Like the settings before, you will need the **memberOf** information to be able to use the solution. This is also needed for **Sponsor, My Devices and Certificate Provisioning**

Attribute Contract	Source	Value
SAML_SUBJECT	Adapter	username
memberOf	Text	no group found

Step 42 Click **Next**

Step 43 Validate **Summary** (this is the info different from prior summary)

Failsafe Attribute Source	
Failsafe option	Use default set of attributes for this Assertion

Attribute Contract Fulfillment	
memberOf	no group found (Text)
SAML_SUBJECT	username (Adapter)

Step 44 Click **Done**

Step 45 Under Authentication Source Mapping, Click **Next**

Step 46 Validate **Summary** (showing only the Assertion Creation section)

SP Connection | Browser SSO | Assertion Creation

Identity Mapping | **Attribute Contract** | **Authentication Source Mapping**

Summary information for your Assertion Creation configuration. Click a tab to edit.

Assertion Creation

Identity Mapping

Enable Standard Identifier true

Attribute Contract

Attribute

Subject Name Format

Attribute

Attribute Name Format

Authentication Source Mapping

Adapter instance name

Adapter Instance

Selected adapter

Mapping Method

Adapter

Mapping Method

Attribute Sources & User Lookup

Data Store

Step 47 Click **Done**

Step 48 Under Assertion Creation, click **Next**

Step 49 Under Protocol Settings, click **Configure Protocol Settings**

Note: Under Assertion Consumer Service URL there should be 2 entries already populated. These are the referrer URLs that refer SSO events from ISE SP to the IdP. If they are not listed then you took too long and the system time out. Cancel out of this config, close browser tab, logout and log back into ping to start over.

SP Connection | Browser SSO | Protocol Settings

Assertion Consumer Service URL | Allowable SAML Bindings | **Artifact Resolver Locations** | Signature Policy | Encryption Policy | Summary

As the IdP, you send SAML assertions to the SP's Assertion Consumer Service. The SP may request that the SAML assertion be sent to one of several URLs, via different binding consumer URLs below and select one to be the default.

Default	Index	Binding	Endpoint URL
default	0	POST	https://10.1100.21:8443/portal/SSOLoginResponse.action
	1	POST	https://ise-1.demo.local:8443/portal/SSOLoginResponse.action

Step 50 Click Next

Step 51 Under Allowable SAML Bindings, uncheck ARTIFACT and SOAP

SP Connection | Browser SSO | Protocol Settings

Assertion Consumer Service URL | **Allowable SAML Bindings**

When the SP sends messages, what SAML bindings do you want to allow

ARTIFACT

POST

REDIRECT

SOAP

Step 52 Click Next

Step 53 Under Signature Policy click Next

SP Connection | Browser SSO | Protocol Settings

Assertion Consumer Service URL | Allowable SAML Bindings | **Signature Policy**

Additional guarantees of authenticity may be agreed upon between you and your partner. For S choose to sign assertions sent to this partner, regardless of the binding used.

REQUIRE AUTHN REQUESTS TO BE SIGNED WHEN RECEIVED VIA THE POST OR REDIR

ALWAYS SIGN THE SAML ASSERTION

Step 54 Click Next

Step 55 Under Encryption Policy click Next

Step 56 Validate Summary

Step 57 Click Done

Step 58 Under Protocol Settings validate the settings

SP Connection | Browser SSO

SAML Profiles	Assertion Lifetime	Assertion Creation	Protocol Settings	Summary
This task provides the configuration for specific endpoints and security considerations applicable to selected p				
Protocol Settings				
OUTBOUND SSO BINDINGS	POST			
INBOUND BINDINGS	POST, Redirect			
SIGNATURE POLICY	SAML-standard, SAML Assertion, Authn requests over POST & Redirect			
ENCRYPTION POLICY	No Encryption			

Step 59 Click **Next**

Step 60 Validate **Summary** Page

SP Connection | Browser SSO |

Assertion Consumer Service URL	Allowable SAML Bindings	Signature Policy	Summary
Summary information for your Protocol Settings configuration setting.			
Protocol Settings			
Assertion Consumer Service URL			
Endpoint	URL: https://10.1100.21:8443/portal/SSOLoginResponse.action (POST)		
Endpoint	URL: https://ise-1.demo.local:8443/portal/SSOLoginResponse.action (POST)		
Allowable SAML Bindings			
Artifact	false		
POST	true		
Redirect	true		
SOAP	false		
Signature Policy			
Require digitally signed AuthN requests	false		
Always sign the SAML Assertion	true		
Encryption Policy			
Status	Inactive		

Step 61 Click **Done**

Step 62 Under Browser SSO click **Next**

Step 63 Under Credentials, click **Configure Credentials**

Step 64 Under Digital Signature Settings choose the following:

- a. Choose Signing Certificate

b. Check Include the certificate in the signature

SP Connection | Credentials

Digital Signature Settings Summary

You may need to digitally sign SAML messages or security tokens to protect against tampering. Please select a key/

SIGNING CERTIFICATE 01:53:2F:24:1B:6A (cn=pf-sign)

INCLUDE THE CERTIFICATE IN THE SIGNATURE <KEYINFO> ELEMENT.

INCLUDE THE RAW KEY IN THE SIGNATURE <KEYVALUE> ELEMENT.

SIGNING ALGORITHM RSA SHA256

Step 65 Click Next and Validate Summary

Credentials	
Digital Signature Settings	
Selected Certificate	CN=pf-sign, OU=Policy and Access, O=ISE, L=San Jose, ST=California, C=US
Include Certificate in KeyInfo	true
Include Raw Key in KeyValue	false
Selected Signing Algorithm	RSA SHA256

Step 66 Click Done

Step 67 Under Credentials Click Next

Step 68 Under Activation & Summary change Connection Status to Active

SP Connection

Connection Type Connection Options Import Meta data

Summary information for your SP connection. Click a heading in a section

Connection Status ACTIVE INACTIVE

Step 69 Scroll to the bottom and click Save

You have now completed configuration of the PingFederate IdP to use with the ISE SP Guest Web Auth Portal. The next exercise you will configure PingFederate for the ISE SP for the Sponsor Portal

End of Exercise: You have successfully completed this exercise. Proceed to next section.

Lab Exercise 1.3: Configure PingFederate IdP for ISE Sponsor Portal

Exercise Description

In this exercise you will go over the Ping Federated IdP configuration needed to work with ISE as an IdP. You will configure the necessary settings on PingFederate to work with the ISE Sponsor Portal SP.

Exercise Objective

In this exercise, your goal is to complete the following tasks to setup PingFederate to work with the Sponsor Portal:

- Configure PingFederate for the ISE Sponsor Portal SP

Exercise Steps

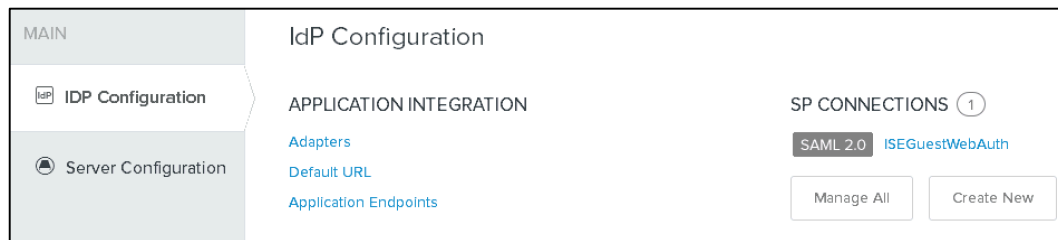
You will now configure the PingFederate IdP to use ISE SP Sponsor Portal.

Note: When going through these steps, don't let the page timeout, Ping doesn't like this and will cause you go to have to delete your config and start over as Ping doesn't save your settings well. You can try using Save Draft but I haven't had good luck with that.

Step 1 From the Admin PC, launch **Firefox** to go to <https://pf.demo.local:9999/pingfederate/app> and login with **admin/ISEisC00L**

Step 2 Navigate to **IDP Configuration**

Step 3 Click **Create New**



Step 4 Under Connection Type, Click **Next**

Lab Exercise 1.3: Configure PingFederate IdP for ISE Sponsor Portal

The screenshot shows the 'SP Connection' configuration page with the 'Connection Type' tab selected. It includes a table with columns for 'Connection Type', 'Connection Options', and 'Import'. Below the table, there is a section for 'CONNECTION TEMPLATE' with a dropdown set to 'No Template'. A list of connection types is shown: 'BROWSER SSO PROFILES' (checked), 'WS-TRUST STS', and 'OUTBOUND PROVISIONING'. The 'BROWSER SSO PROFILES' row also shows 'PROTOCOL SAML 2.0'.

Step 5 Under Connection Options, Click **Next**

The screenshot shows the 'SP Connection' configuration page with the 'Connection Options' tab selected. It prompts the user to 'Please select options that apply to this connection.' Three options are listed: 'BROWSER SSO' (checked), 'IDP DISCOVERY' (unchecked), and 'ATTRIBUTE QUERY' (unchecked).

Step 6 Under Import Metadata, choose **File** and select the **Sponsor Portal (default).xml** this will be used to setup PingFederate for ISE SSO WebAuth Guest Portal as an SP, click **Next**

The screenshot shows the 'SP Connection' configuration page with the 'Import Metadata' tab selected. It prompts the user to 'If you have received metadata from the partner, import the file or URL here to populate Automatic Reloading.' There are three radio buttons for 'METADATA': 'NONE', 'FILE' (selected), and 'URL'. Below this, a text input field contains 'MySubPortalForSSO.xml' and a 'Choose file' button is visible.

Step 7 Under Metadata Summary, click **next**.

Step 8 On the General info page, change the Connection Name to **ISESponsorPortal** and click **Next**

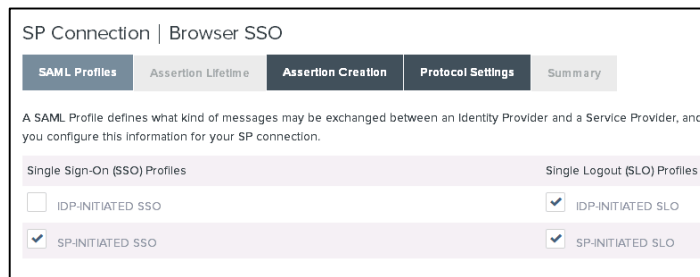
The screenshot shows the 'SP Connection' configuration page with the 'General Info' tab selected. It displays the 'Activation & Summary' section. Below this, there is a text input field for 'PARTNER'S ENTITY ID (CONNECTION ID)' containing 'http://CiscotSE/4403f3'. Below that, the 'CONNECTION NAME' field contains 'ISESponsorPortal', which is highlighted with a red box.

Step 9 Click **Configure Browser SSO**

Step 10 Under SAML Profiles check the following options:

- a. Single Sign-On (SSO Profiles)
 - i. SP-INITIATED SSO
- b. Single Logout (SLO) Profiles
 - i. IDP-INITIATED SLO
 - ii. SP-INITIATED SLO

Note: When you did this for the guest portal you only selected the first option (SP-INITIATED SSO). That's because the capabilities of the guest portal only allows SSO from the ISE SP. The guest portal also doesn't have logout capability. With the Sponsor portal it can initiate a logout. The same can be done from the IDP side of things. My Devices and Certificate Provisioning Portals can use this as well (if configured in the environment)



Step 11 Click **Next**

Step 12 Under Assertion Lifetime click **Next**

Step 13 Under Assertion Creation click **Configure Assertion Creation**

Step 14 Under Identity Mapping, click **Next**

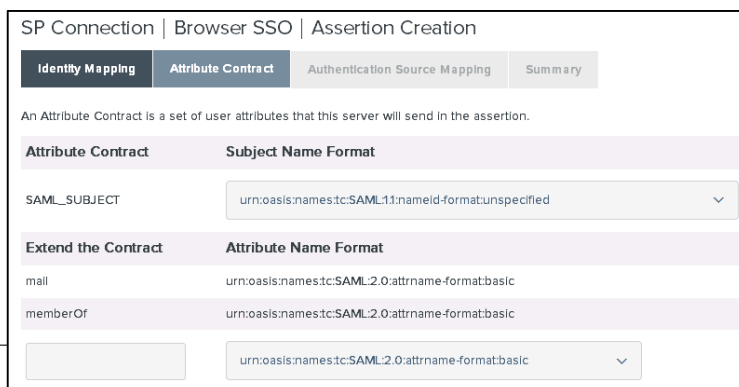
Step 15 Under Attribute Contract > Extend the Contract

- a. Enter **memberOf** with default Attribute Name Format and click **Add (DON'T MISS IT!)**

Note: This is needed to send back to the ISE Sponsor Portal the group member info. This is used to configure Sponsor group mappings. This can also be used with the Certificate Provisioning Portal

- b. Enter **mail** with default Attribute Name Format and click **Add (DON'T MISS IT!)**

Note: This is needed to send back to the ISE Sponsor Portal the email address information, which is used for filtering of the Pending Approvals list for self-registered guests



Step 16 Click **Next**

Step 17 Under Authentication Source Mapping, click **Map New Adapter Instance**

Step 18 Select **HTML Form Adapter**

SP Connection | Browser SSO | Assertion Creation

Adapter Instance | Mapping Method | Attribute Contract Fulfillment

Select an IdP adapter instance that may be used to authenticate users for partner.

ADAPTER INSTANCE: HTML Form Adapter

Adapter Contract

- givenName
- mail
- memberOf
- objectGUID
- sn
- username
- userPrincipalName

OVERRIDE INSTANCE SETTINGS

Step 19 Click **Next**

Step 20 Under Mapping Method choose the middle option at the bottom of the page

RETRIEVE ADDITIONAL ATTRIBUTES FROM MULTIPLE DATA STORES USING ONE MAPPING

RETRIEVE ADDITIONAL ATTRIBUTES FROM A DATA STORE -- INCLUDES OPTIONS TO USE ALTERNATE DATA STORES AND/OR A FAILSAFE MAPPING

USE ONLY THE ADAPTER CONTRACT VALUES IN THE SAML ASSERTION

Step 21 Click **Next**

Step 22 Under Attribute Sources & User Lookup click **Add Attribute Source**

Step 23 Under Data Store enter the following:

- Attribute Source Description: **demoLDAP**

b. Active Data Store: select **ad.demo.local**

SP Connection | Browser SSO | Assertion Creation | IdP A

Data Store | LDAP Directory Search | LDAP Filter | Attribute Contract Fulfill

This server uses local data stores to retrieve supplemental attributes to be sent in an asse

ATTRIBUTE SOURCE DESCRIPTION demoLDAP

ACTIVE DATA STORE ad.demo.local

DATA STORE TYPE LDAP

Step 24 Click **Next**

Step 25 Under LDAP Directory Search enter the Base DN as **OU=HCC,DC=demo,DC=local**

SP Connection | Browser SSO | Assertion Creation | IdP A

Data Store | LDAP Directory Search | LDAP Filter | Attribute Contract Fu

Please configure your directory search. This information, along with the attributes suppl

BASE DN OU=HCC,DC=demo,DC=local

Step 26 Click **Next**

Step 27 Under LDAP Filter, enter **sAMAccountName=\${username}**

SP Connection | Browser SSO | Assertion

Data Store | LDAP Directory Search | LDAP Filter

Please enter a Filter for extracting data from your directory.

FILTER sAMAccountName=\${username}

Step 28 Click **Next**

Step 29 Under Attribute Contract Fulfillment choose the following options:

SP Connection | Browser SSO | Assertion Creation | IdP Adapter Mapping | Attribute Contract Fulfillment | Summary

Data Store | **LDAP Directory Search** | **LDAP Filter** | **Attribute Contract Fulfillment** | Summary

Fulfill your Attribute Contract with values from the authentication adapter, dynamic text values, or from a data store lookup.

Attribute Contract	Source	Value
SAML_SUBJECT	Adapter	username
mail	Adapter	mail
memberOf	Adapter	memberOf

Step 30 Click Next

Step 31 Validate Summary

SP Connection | Browser SSO | Assertion Creation | IdP Adapter Mapping | Attribute Contract Fulfillment | Summary

Data Store | **LDAP Directory Search** | **LDAP Filter** | **Attribute Contract Fulfillment** | Summary

Attribute Source Summary

Attribute Sources & User Lookup

Data Store	
Attribute Source	demoLDAP
Type of Data Store	LDAP
Data Store	ad.demo.local
LDAP Directory Search	
Base DN	OU=HCC,DC=demo,DC=local
Search scope	SUBTREE_SCOPE
Attribute	Subject DN
LDAP Filter	
Filter	sAMAccountName=\${username}
Attribute Contract Fulfillment	
mail	mail (Adapter)
memberOf	memberOf (Adapter)
SAML_SUBJECT	username (Adapter)

Step 32 Click Done.

Step 33 Under Attribute Sources & User Lookup, click Next

Step 34 Under Failsafe Attribute Source, click Next

Step 35 Under Attribute Contract Fulfillment select the following:

- a. For Attribute Contract: **SAML_SUBJECT**
 - i. Source: **Adapter**

- ii. Value: **username**
- b. For Attribute Contract: **mail**
 - i. Source: **Text**
 - ii. Value: **no mail address**
- c. For Attribute Contract: **memberOf**
 - i. Source: **Text**
 - ii. Value: **no group found**

Attribute Contract	Source	Value
SAML_SUBJECT	Adapter	username
mail	Text	no mail address
memberOf	Text	no group found

Step 36 Click **Next**

Step 37 Validate **Summary** (this is the info different from prior summary)

Attribute Contract Fulfillment	
mail	no mail address (Text)
memberOf	no group found (Text)
SAML_SUBJECT	username (Adapter)

Step 38 Click **Done**

Step 39 Under Authentication Source Mapping, Click **Next**

Step 40 Validate **Summary**

Step 41 Click **Done**

Step 42 Under Assertion Creation, click **Next**

Step 43 Under Protocol Settings, click **Configure Protocol Settings**.

Note: Under Assertion Consumer Service URL there should be 3 entries already populated. These are the referrer URLs that refer SSO events from ISE SP to the IdP. Notice the sponsor.demo.local (this is the Easy URL FQDN you configured under the Sponsor Portal Settings (if this is missing then you will need to go back to the step for that and add it back in, then change the portal to use the Sponsor sequence, save it, go back into the portal settings and change it back to use Ping, save it and then re-export the Metadata for ISE as this URL is contained in that file. If you are missing all 3 then cancel out of this config, close the browser tab, logout and log back into ping to start over.

SP Connection | Browser SSO | Protocol Settings

Assertion Consumer Service URL | SLO Service URLs | Allowable SAML Bindings | Artifact Resolver Locations | Signature

Summary

As the IdP, you send SAML assertions to the SP's Assertion Consumer Service. The SP may request that the SAML assertion be sent to one of the possible assertion consumer URLs below and select one to be the default.

Default	Index	Binding	Endpoint URL
default	0	POST	https://sponsor.demo.local:8443/sponsorportal/SSOLoginResponse.action
	1	POST	https://10.1100.21:8443/sponsorportal/SSOLoginResponse.action
	2	POST	https://ise-1.demo.local:8443/sponsorportal/SSOLoginResponse.action

Step 44 Click **Next**

Step 45 Under **SLO Service URLs** you will see 1 redirect, this is used for logout on the Sponsor Portal, click **Next**

SP Connection | Browser SSO | Protocol Settings

Assertion Consumer Service URL | SLO Service URLs | Allowable SAML Bindings | Artifact Resolver Locations | Signature

Summary

As the IdP, you may send SAML logout messages to the SP's Single Logout Service. Depending on the situation, the SP may request that messages be sent using different bindings. Please provide the endpoints that you would like to use.

Binding	Endpoint URL	Response URL
Redirect	https://sponsor.demo.local:8443/sponsorportal/SSOLogoutRequest.action?portal=4403f3a0-e714-11e5-b92f-005056bf55e0	https://sponsor.demo.local:8443/sponsorportal/SSOLogoutResponse.action

Step 46 Under Allowable SAML Bindings, uncheck **ARTIFACT** and **SOAP**

SP Connection | Browser SSO | Protocol Settings

Assertion Consumer Service URL | Allowable SAML Bindings

When the SP sends messages, what SAML bindings do you want to allow?

ARTIFACT

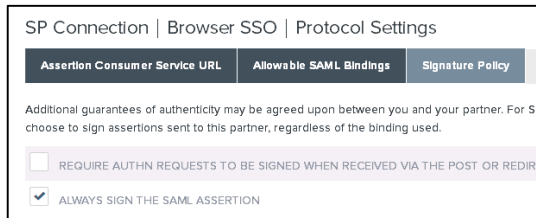
POST

REDIRECT

SOAP

Step 47 Click **Next**

Step 48 Under Signature Policy click **Next**



SP Connection | Browser SSO | Protocol Settings

Assertion Consumer Service URL | Allowable SAML Bindings | Signature Policy

Additional guarantees of authenticity may be agreed upon between you and your partner. For S choose to sign assertions sent to this partner, regardless of the binding used.

REQUIRE AUTHN REQUESTS TO BE SIGNED WHEN RECEIVED VIA THE POST OR REDIR

ALWAYS SIGN THE SAML ASSERTION

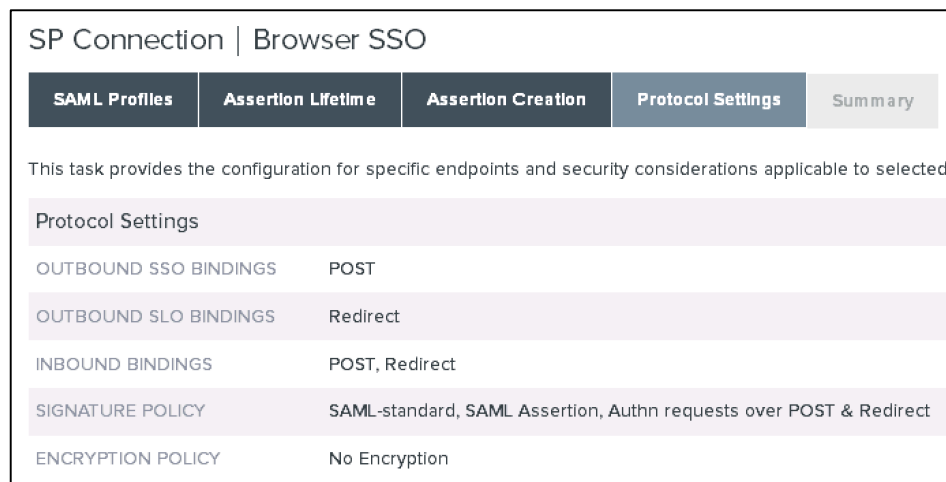
Step 49 Click **Next**

Step 50 Under Encryption Policy click **Next**

Step 51 Validate **Summary**

Step 52 Click **Done**

Step 53 Under Protocol Settings **validate the settings** and click **Next**



SP Connection | Browser SSO

SAML Profiles | Assertion Lifetime | Assertion Creation | Protocol Settings | Summary

This task provides the configuration for specific endpoints and security considerations applicable to selected

Protocol Settings

OUTBOUND SSO BINDINGS	POST
OUTBOUND SLO BINDINGS	Redirect
INBOUND BINDINGS	POST, Redirect
SIGNATURE POLICY	SAML-standard, SAML Assertion, Authn requests over POST & Redirect
ENCRYPTION POLICY	No Encryption

Step 54 Validate **Summary Page** and click **Done**

Step 55 Under Browser SSO click **Next**

Step 56 Under Credentials, click **Configure Credentials**

Step 57 Under Digital Signature Settings choose the following:

- a. Choose Signing Certificate

b. Check **Include the certificate in the signature**

SP Connection | Credentials

Digital Signature Settings Summary

You may need to digitally sign SAML messages or security tokens to protect against tampering. Please select a key/algorithm.

SIGNING CERTIFICATE 01:53:2F:24:1B:6A (cn=pf-sign)

INCLUDE THE CERTIFICATE IN THE SIGNATURE <KEYINFO> ELEMENT.

INCLUDE THE RAW KEY IN THE SIGNATURE <KEYVALUE> ELEMENT.

SIGNING ALGORITHM RSA SHA256

Step 58 Click **Next**

Step 59 Validate Summary and click **Next**

Credentials	
Digital Signature Settings	
Selected Certificate	CN=pf-sign, OU=Policy and Access, O=ISE, L=San Jose, ST=California, C=US
Include Certificate in KeyInfo	true
Include Raw Key in KeyValue	false
Selected Signing Algorithm	RSA SHA256

Step 60 Click **Done**

Step 61 Under Credentials Click **Next**

Step 62 Under Activation & Summary change Connection Status to **Active**

SP Connection

Connection Type Connection Options Import Metadata

Summary information for your SP connection. Click a heading in a section

Connection Status ACTIVE INACTIVE

Step 63 Scroll to the bottom and click **Save**

You have now completed configuration of the PingFederate IdP to use with the ISE SP Sponsor Portal.

End of Exercise: You have successfully completed this exercise. Proceed to next section.

Lab Exercise 1.4: Finalize configuration of ISE IdP and Sponsor settings

Exercise Description

In this exercise you will export the MetaData information from the Guest Webauth & Sponsor Portal SP configurations. Import the IdP information into ISE to work with the portals. Finalize the ISE IdP configuration for ISE and configure the sponsor portal for the IdP Groups.

Exercise Objective

In this exercise, your goal is to complete the following tasks to setup PingFederate to work ISE.

- Export metadata information from Ping
- Import metadata info into ISE for the portals
- Finalize the ISE IdP configuration for PingFederate
- Configure ISE sponsor portal for IdP Group Mappings.

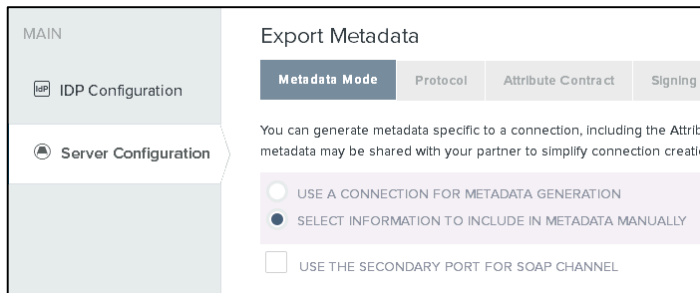
Exercise Steps

You will now export the Metadata information for the Guest Web Auth and Sponsor Portal SP configurations from Ping IdP to import onto ISE.

Step 1 From the Admin PC, launch **Firefox** to go to <https://pf.demo.local:9999/pingfederate/app> and login with **admin/ISEisC00L**

Step 2 On PingFederate, Navigate to **Server Configuration > Administrative Functions > Metadata Export**

Step 3 Under Metadata Mode, use **Select Information to include in metadata manually**



Step 4 Click **Next**

Step 5 Under Protocol, click **Next**

Step 6 Under Attribute Contract, click **Next**

Step 7 Under **Signing Key**, select from the pull down

The screenshot shows the 'Export Metadata' configuration page with the 'Signing Key' tab selected. Below the tabs, there is a text prompt: 'The metadata may contain a public key that this system uses for digital signature'. A section titled 'DIGITAL SIGNATURE KEYS/CERTS' contains a dropdown menu. The dropdown is open, showing '- SELECT -' at the top and '01:53:2F:24:1B:6A (cn=pf-sign)' selected below it.

Step 8 Click **Next**

Step 9 Under Metadata Signing, select the **Signing Certificate** and **Include this Certificate Public Key**

The screenshot shows the 'Export Metadata' configuration page with the 'Metadata Signing' tab selected. Below the tabs, there is a text prompt: 'From this list of certificates, choose which one to use for signing the selected file.' A section titled 'SIGNING CERTIFICATE' contains a dropdown menu with '01:53:2F:24:1B:6A (cn=pf-sign)' selected. Below this, there are two checkboxes: the first is checked and labeled 'INCLUDE THIS CERTIFICATE'S PUBLIC KEY CERTIFICATE IN THE SIGNATURE', and the second is unchecked and labeled 'INCLUDE THE RAW KEY IN THE SIGNATURE <KEYVALUE>'. At the bottom, a 'SIGNING ALGORITHM' dropdown menu is set to 'RSA SHA256'.

Step 10 Click **Next**

Step 11 Under **XML Encryption Certificate**, click **Next**

Step 12 Validate the **Summary Page**

Step 13 Click Export and save off the Metadata.xml file

Export Metadata	
Metadata Mode	
Metadata mode	Select information manually
Use the secondary port for SOAP channel	false
Protocol	
Protocol	SAML 2.0
Attribute Contract	
Attribute	None defined
Signing Key	
Signing Key	None
Metadata Signing	
Signing Certificate	CN=pf-sign, OU=Policy and Access, O=ISE, L=San Jose, ST=California, C=US
Include Certificate in KeyInfo	true
Include Raw Key in KeyValue	false
Selected Signing Algorithm	RSA SHA256
XML Encryption Certificate	
Encryption Keys/Certs	NONE

Export

Step 14 Click Done

Now that you have completed export of the metadata information on the IdP you will now import this information onto ISE and finalize the ISE IdP entry for PingFederate.

Step 15 Use Firefox to go to <https://ise.demo.local> and login with **admin/ISEisC00L**

Step 16 Navigate to **Administration > Identity Management > External Identity Sources > SAML Id Providers > PingFederate**

Step 17 Import the IdP Metadata File

- a. Select **Identity Provider Config**
- b. Click **Browse** and choose the **metadata.xml** file you exported from Ping

Identity Provider List > PingFederate

SAML Identity Provider

General Identity Provider Config. Service Provider Info. Groups

Identity Provider Configuration

Import Identity Provider Config File ⓘ

Provider Id pf

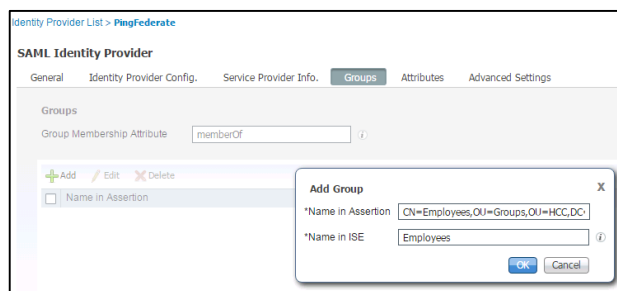
Single Sign On URL <https://pf.demo.local:9031/idp/SSO.saml2>

Single Sign Out URL (Post) <https://pf.demo.local:9031/idp/SLO.saml2>

Signing Certificates

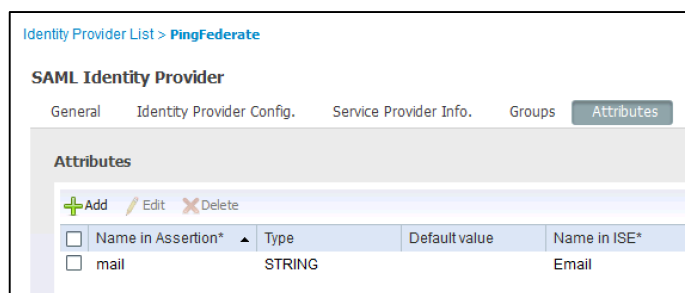
Step 18 Select the **Groups** tab, here you will configured the groups to use from Ping

- a. Enter Group Membership Attribute: **memberOf**
- b. Click **Add**
 - i. Name in Assertion: (value coming from SAML IdP)
CN=Employees,OU=Groups,OU=HCC,DC=demo,DC=local
 - ii. Name in ISE: **Employees**
- c. Click **OK**



Step 19 Select the **Attributes** tab, here you will enter the info needed to receive email attribute from Ping users to use with the Sponsor Portal pending accounts filtered list.

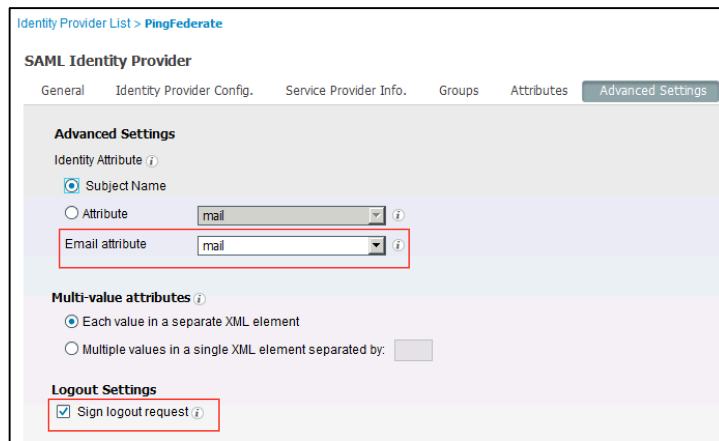
- a. Click **Add**
- b. Enter Name in Assertion: **mail**, the other field for Name in ISE will fill automatically
- c. Click **OK**



Step 20 Select the **Advanced Settings** Tab, this is where we map the email attribute and choose the Logout Settings

- a. Under Identity Attribute choose Email attribute: **mail**

- b. For Logout Settings check the box for **Sign logout request**



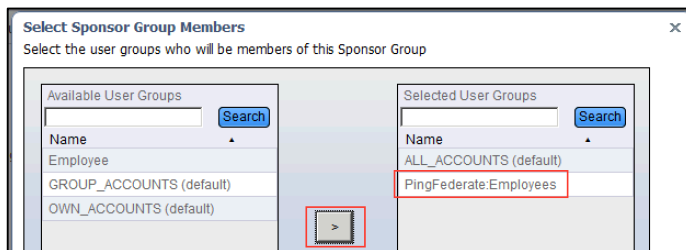
Step 21 Click **Save**

You have now completed configuration of the PingFederate IDP on ISE. Next you will configure your Sponsor Group settings for user groups and to filter your list of Pending accounts to only those destined to the specific sponsor.

Step 22 Navigate to **Work Centers > Guest Access > Configure > Sponsor Groups > ALL_ACCOUNTS**

Step 23 Configure your Sponsor Group to work with the PingFederate Employee Groups

- Click on **Members...**
- From the Available User Groups, Select the **PingFederate:Employees**
- Click the arrow to move the group to the Selected User Groups
- Click **OK**



Next will configure the sponsor group to only see those self-registered guest pending accounts that are designated for them (the guest enters the sponsors email address under person being visited).

Step 24 Under the section for **Sponsor Can > Approve and view requests from self-registering guests** section check the box for **Only pending accounts assigned to this sponsor**

Sponsor Can

- View guests' passwords
- Reset guests' account passwords
- Extend guest accounts
- Send SMS notifications with guests' credentials
- Delete guests' accounts
- Suspend guests' accounts
 - Require sponsor to provide a reason
- Reinstate suspended guests' accounts
- Approve and view requests from self-registering guests
 - Any pending accounts
 - Only pending accounts assigned to this sponsor ⓘ

Step 25 Click **Save** under the Sponsor Group

You have now finished setting up the ISE IdP and Sponsor Group settings. In the next exercise you will use the Guest and Sponsor Portals to see how they work the configured features.

End of Exercise: You have successfully completed this exercise. Proceed to next section.

Lab Exercise 1.5: Guest Web Auth & Sponsor Portal Usage with SAML SSO features

Exercise Description

Now that you have configured PingFederate and ISE for the settings needed to use SAML SSO with the ISE Guest Web Auth and Sponsor Portals. Plus configured the necessary settings in the sponsor portal and groups. You are ready to try out the SSO portal access and see the filtered pending accounts. In this exercise you will access the Guest Web Auth and Sponsor Portals using SSO, generate some self-registered guest accounts that require approval and then access the sponsor portal to see how the filtering options works.

In these tests we will be using the test portal URL for the guest portal as its not required to use a real client connection through a Network Access Device. This saves time and complexity on setup. If you're interested in trying real clients in guest flow this can be done in our general guest lab or through cisco dCloud.

Exercise Objective

In this exercise, your goal is to complete the following tasks to learn how the new portal and sponsor group options work.

- Access the Guest and Sponsor Portals using SAML
- Create self-registered accounts requiring approval
- Validate the pending approval filtering

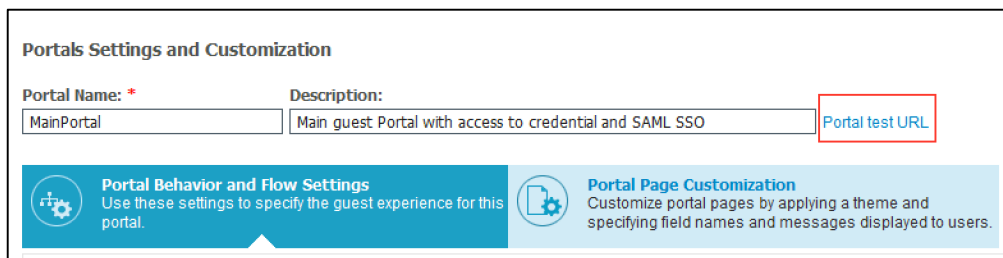
Exercise Steps

Access the guest portal using PingFederate SAML SSO.

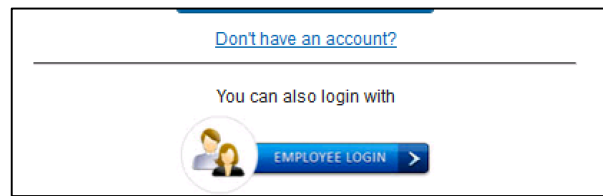
Step 1 From the Admin PC, launch **Firefox** to go to <https://ise-1.demo.local> and login with **admin/ISEisC00L**

Step 2 Access the Guest Portal and test

- Navigate to **Work Centers > Guest Access > Configure > Guest Portals**
- Choose the **Main Portal** you created.
- At the top of the screen click on the **Portal Test URL**



Note: A new browser window will launch. This portal gives you the option to login to the normal credentialed portal (with guest, internal or external users (AD/LDAP)). It also includes a new option available at the bottom of the page, this button for Employee Login is linked to the additional portal you created that uses PingFederate as an authentication method.



- d. Click on the **employee login button** and you're redirected to a PingFederate portal, login with **employee1/ISEisC00L**.
- e. Close the browser window and try the process again. You'll notice this time that you don't need to enter the credentials, you go directly to the success screen. This SSO token will now carry over to other ISE portals that the user is allowed access to with this authentication method.

Step 3 Navigate to **Operations > RADIUS Live Log**

A screenshot of a web application interface for "RADIUS Live Log". At the top, there are three buttons: "Refresh", "Reset Repeat Counts", and "Export To". Below these is a table with the following columns: "Time", "Status", "Details", "Repeat ...", "Identity", and "Endpoint ID". The table contains two rows of data. The first row has a time of "Apr 08, 2016 04:50:10.329 PM", a green checkmark in the Status column, a blue document icon in the Details column (with a red arrow pointing to it), and the identity "employee1". The second row has a time of "Apr 08, 2016 04:49:58.673 PM", a red X in the Status column, and a blue document icon in the Details column.

Note: Although we are not working with real client devices you can still see a RADIUS live log of your login to the portal. It missing information such as IP and MAC Address because there is no real client or authentication on a NAD.

Step 4 Click on employee1 **details** and notice that the user is a NON_GUEST type of account coming from PingFederate

Authentication Details	
Source Timestamp	2016-04-08 16:50:10.251
Received Timestamp	2016-04-08 16:50:10.329
Policy Server	ise-1
Event	5231 Guest Authentication Passed
Username	employee1
User Type	NON_GUEST
Authentication Identity Store	PingFederate
Identity Group	Any
Authentication Method	PAP_ASCII
Authentication Protocol	PAP_ASCII

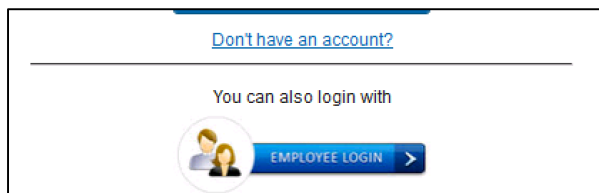
For your reference: An authorization policy that could used to differentiate access depending on the type of user hitting the Web Auth Portal. Notice how the PingFederated ID source can be chosen under other conditions.

Wi-Fi_SAML_WebAuth_Permit	if (Guest_Flow AND Wireless_MAB AND PingFederate:ExternalGroups EQUALS Employees)	then Employee_WebAuth_Permit AND Employees
Wi-Fi_Guest_Access	if (GuestType_Daily (default) OR GuestType_Weekly (default) OR GuestType_Contractor (default) AND (Guest_Flow AND Wireless_MAB)	then Guest_Permit AND Guests

You have completed a SAML SSO login.

Step 5 Now lets create some self-registered guest accounts to use with our filtered list of Sponsor Portal Pending Accounts

- a. Access the **Main Portal** using the test URL again.
- b. Click on the **Don't have an account** link



- c. Enter in the minimum to make an account
 - i. Guest email address: joe@demo.local
 - ii. Person being visited: sponsor@demo.local
 - iii. Click **Register**

- d. Repeat above this time using the following values

CISCO Sponsored Guest Portal

Create Account
Provide us with some information so we can create an account for you.

Username

Email address*
joe@demo.local

Phone number

Company

Person being visited(email)*
sponsor@demo.local

Reason for visit

Register Cancel

- i. Click **Don't have an account** again
- ii. Guest email address: rob@demo.local
- iii. Person being visited: sponsor1@demo.local
- iv. Click **Register**

Step 6 Lets now discover the options available for the Sponsor Portal around SAML login, logout and filtering of the guest pending accounts.

- a. Navigate to <http://sponsor.demo.local> (there is a bookmark for this under ise).
- b. You are presented with a SAML login (if you didn't login with the guest portal from before). Login with **sponsor/ISEisC00L**
- c. Navigate to **Pending Accounts (1)**, notice there is a request from joe@demo.local (the one for rob is not listed)
- d. Click on the username to see the details. Notice the person being visited is sponsor@demo.local

CISCO Sponsor Portal

Create Accounts Manage Accounts (0) Pending Accounts (1)

Username:	9j3
Password:	8eH
Email address:	joe@demo.local
Person being visited (email):	sponsor@demo.local
Guest type:	Daily (default)
SMS provider:	Global Default

- e. Signout of the Sponsor Portal in the upper right by clicking on the **Welcome Sponsor**

This performed a SLO (Single Logout) of the SAML portal through ISE

- f. Login as **sponsor1/ISEisC00L**
- g. Click on **Pending Accounts (1)**

- h. Click on the username to get details for the account. Notice this time the account is for **rob** who is visiting **sponsor1**

The ability to filter the list of pending accounts depending on the Sponsor (person being visited) email address is limited to configurations where you are integrating with SAML provider that provides the email address or internal sponsor accounts on ISE. In ISE 2.1 it is not supported to retrieve this attribute for filtering from direct integration with AD/LDAP. This support should be added in ISE 2.2

You have now completed working with the new features of SAML portals with ISE 2.1.

<p><input checked="" type="checkbox"/> End of Exercise: You have successfully completed this exercise. Proceed to next section.</p>
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Lab Exercise 1.6: Log information for troubleshooting and debugging

Exercise Description

In this exercise will look at some of the logs available to you to help in troubleshooting and debugging issues with SAML Portals specifically around some of the issues seen here in this lab.

Exercise Objective

In this exercise, your goal is to learn about some of the different issues seen when troubleshooting Guest SAML Portal and Sponsor filtered pending accounts list.

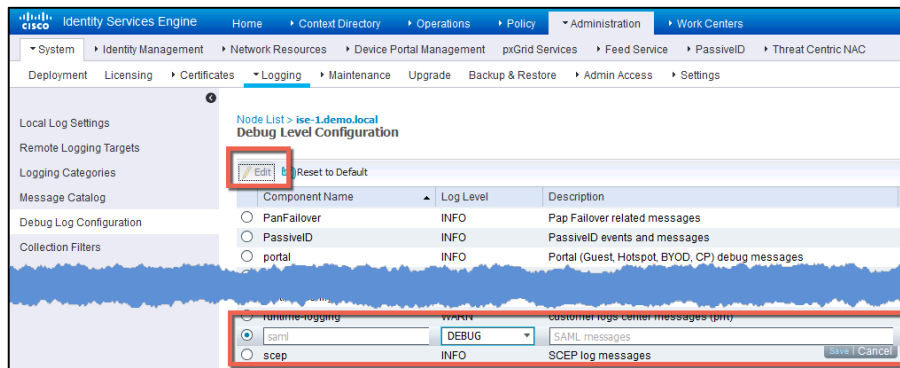
- Access the ISE CLI
- Validate the good messages and possible bad messages

Exercise Steps

Step 1 Navigate to Operations > RADIUS Live Log

Step 2 Set ISE to debug on SAML

- On ISE, **Navigate to Administration > System > Logging > Debug Log Configuration > ise-1**
- Find the Component Name: **saml**
- Select the **radial**
- Click **Edit** at the top of the page to change it



e. Click **Save**

Step 3 Login to the ISE CLI

- Using Putty SSH open ISE
- Login as **admin/ISEisC00L**

Step 4 Type **show logging application ise-psc.log**

Step 5 Hit **Enter**

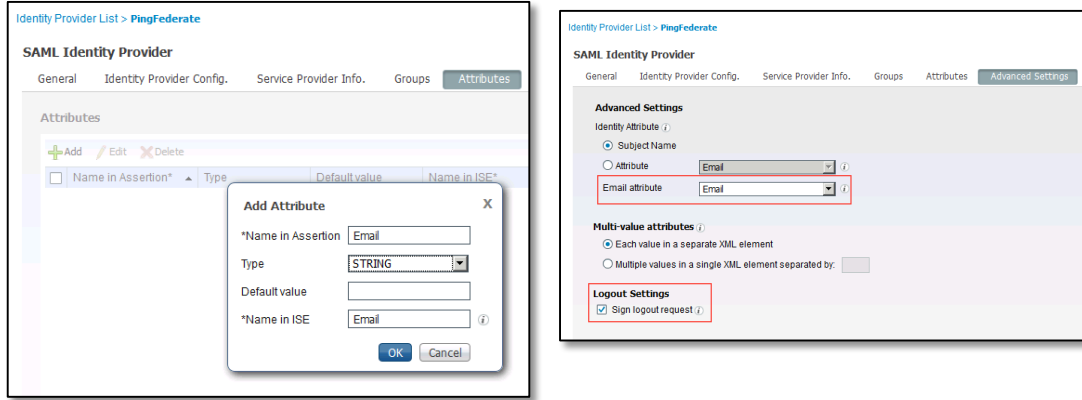
Step 6 Search for sponsor@demo.local using **/sponsor@demo.local**

Issue1: Not receiving filtered list of pending accounts

This log shows that it is receiving an attribute of 'mail' but its not configured on ISE. This was seen when I had the following screens configured as Email when PingFederate was sending it as 'mail'

I found this by searching for the e-mail address of my sponsor as they weren't receiving a list of filtered pending accounts

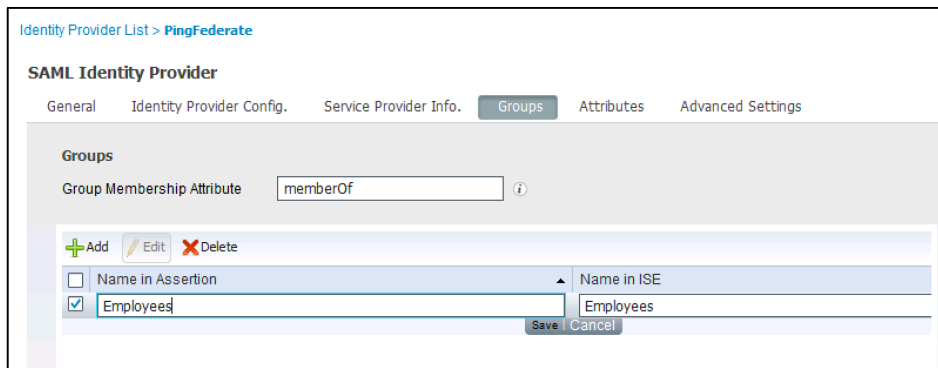
```
2016-04-06 02:58:18,587 DEBUG [http-bio-10.1.100.21-8443-exec-10][] cpm.saml.framework.impl.SAMLAttributesParser -----  
[parseAttributes] Delimiter not configured, Attribute=<mail> add value=<sponsor@demo.local>
```



Issue2: Unable to login to the Sponsor Portal

This issue was seen when the group mapping was not configured correctly. ISE was receiving memberOf value CN=Employees,OU=Groups,OU=HCC,DC=demo,DC=local but it was configured on ISE as Employees, the value should be CN=Employees,OU=Groups,OU=HCC,DC=demo,DC=local

```
2016-04-06 02:58:18,587 DEBUG [http-bio-10.1.100.21-8443-exec-10][] cpm.saml.framework.impl.SAMLAttributesParser -----  
[parseAttributes] Found attribute name : memberOf  
2016-04-06 02:58:18,587 DEBUG [http-bio-10.1.100.21-8443-exec-10][] cpm.saml.framework.impl.SAMLAttributesParser -----  
[parseAttributes] Delimiter not configured, Attribute=<m  
emberOf> add value=<CN=Employees,OU=Groups,OU=HCC,DC=demo,DC=local>
```



☑ End of Exercise: You have successfully completed this exercise. Proceed to next section.