

# Instale y configure el proveedor de identidad PingFederate para Cisco Identity Service para habilitar SSO

## Contenido

---

### [Introducción](#)

### [Prerequisites](#)

[Requirements](#)

[Componentes Utilizados](#)

### [Instalar](#)

[Requisitos del sistema](#)

[Sistemas operativos](#)

[Entorno Java](#)

[Exploradores compatibles para usuarios finales](#)

[Exploradores compatibles con la consola administrativa](#)

[Integración del almacén de datos](#)

[\(Para búsqueda de atributos de usuario\)](#)

[Requisitos mínimos de hardware](#)

[Recomendaciones de hardware mínimas](#)

### [Instalar](#)

[Instalar PingFederate con el archivo ZIP de distribución](#)

[Instalar PingFederate con el archivo EXE de distribución](#)

[Iniciar PingFederate por primera vez](#)

### [Asistente de configuración inicial](#)

[Aceptar acuerdo de licencia](#)

[Cuenta de PingOne](#)

[Licencia](#)

[Información básica](#)

[Habilitar funciones](#)

[Configuración del proveedor de identidad](#)

[Cuenta de administrador](#)

[Confirmación](#)

[Completo](#)

### [Configurar PingFederate](#)

#### [Configuración del servidor](#)

[Claves y certificados de descifrado XML \(Lenguaje de marcado extensible\) y firmas digitales](#)

[Almacenes de datos](#)

[Validadores de credenciales de contraseña](#)

[Configuración del servidor](#)

#### [Configuración del proveedor de identidad \(IdP\)](#)

[Adaptadores](#)

[Conexiones SP](#)

---

[Exportar metadatos de PingFederate](#)

[Exportación de metadatos](#)

[Modo de metadatos](#)

[Metadatos de conexión](#)

[Firma de metadatos](#)

[Exportar y resumir](#)

[Metadatos de ejemplo](#)

[Troubleshoot](#)

[Configuración adicional para SSO:](#)

---

## Introducción

Este documento describe la configuración del proveedor de identidad PingFederate (IdP) para habilitar el inicio de sesión único (SSO).

Modelos de implementación de Cisco IdS

Producto	Implementación
UCCX	Copresidente
PCCE	Coresidente con CUIC (Cisco Unified Intelligence Center) y LD (Live Data)
UCCE	Coresidente con CUIC y LD para implementaciones 2k. Independiente para implementaciones de 4000 y 12 000.

## Prerequisites

### Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

- Cisco Unified Contact Center Express (UCCX) versión 11.6 o Cisco Unified Contact Center Enterprise versión 11.6 o Packaged Contact Center Enterprise (PCCE) versión 11.6, según corresponda.
- PingFederate instalado en Windows Server

---

Nota: Este documento hace referencia a la configuración con respecto a Cisco Identity Service (IdS) y el Identity Provider (IdP). El documento hace referencia a UCCX en las capturas de pantalla y los ejemplos, sin embargo la configuración es similar con respecto a Cisco Identity Service (UCCX/UCCE/PCCE) y el IdP.

---

## Componentes Utilizados

Este documento no tiene restricciones específicas en cuanto a versiones de software y de

hardware.

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

## Instalar

### Requisitos del sistema

Sistemas operativos	Entorno Java	Exploradores compatibles para usuarios finales	Exploradores compatibles con la consola administrativa	Integración del almacén de datos  (Para búsqueda de atributos de usuario)	Requisitos mínimos hardware
<ul style="list-style-type: none"> <li>• Microsoft Windows Server 2008 R2 SP (Service Pack)</li> <li>• Microsoft Windows Server 2012 Standard</li> <li>• Microsoft Windows Server 2012 R2 Datacenter</li> <li>• Oracle Enterprise Linux 6.5 (kernel compatible con Red</li> </ul>	<ul style="list-style-type: none"> <li>• Oracle Java SE Runtime Environment (Server JRE) 7, actualización 79 (64 bits)</li> <li>• Oracle Java SE Runtime Environment (Server JRE) 8, actualización 45 (64 bits)</li> </ul>	<ul style="list-style-type: none"> <li>• Cromado</li> <li>• Firefox</li> <li>• Internet Explorer (versión 9 y posteriores)</li> <li>• Safari</li> </ul>	<ul style="list-style-type: none"> <li>• Cromado</li> <li>• Firefox</li> <li>• Internet Explorer (versión 9 y posteriores)</li> </ul>	<ul style="list-style-type: none"> <li>• Microsoft Active Directory (2008 R2 y 2012)</li> <li>• Oracle Directory Server Enterprise Edition 11g</li> <li>• Microsoft SQL (Structured Query Language) Server (2012 y 2014)</li> <li>• Oracle Database (10g y 11g R2)</li> </ul>	<ul style="list-style-type: none"> <li>• P</li> <li>In</li> <li>P</li> <li>a</li> <li>• 1</li> <li>R</li> <li>• 2</li> <li>es</li> <li>lib</li> <li>di</li> </ul>

Hat) • Oracle Solaris 10 • Red Hat Enterprise Linux ES 6.6 • Red Hat Enterprise Linux ES 7.0 • SUSE Linux Enterprise 11 SP 3				• Oracle MySQL 5.6	
--	--	--	--	--------------------	--

## Instalar

Extraiga el archivo ZIP de distribución o utilice un instalador específico de la plataforma para instalar PingFederate.

- Solicite una clave de licencia a través de la página web de licencias de Ping Identity ([www.pingidentity.com/support-and-downloads/licensing.cfm](http://www.pingidentity.com/support-and-downloads/licensing.cfm)).
- Asegúrese de haber iniciado sesión en el sistema con los privilegios adecuados para instalar y ejecutar una aplicación
- Compruebe que el Entorno de tiempo de ejecución de Java (JRE) del servidor está instalado y que las variables de entorno y PATH están establecidas correctamente

## Instalar PingFederate con el archivo ZIP de distribución

Extraiga el archivo ZIP de distribución en un directorio de instalación.

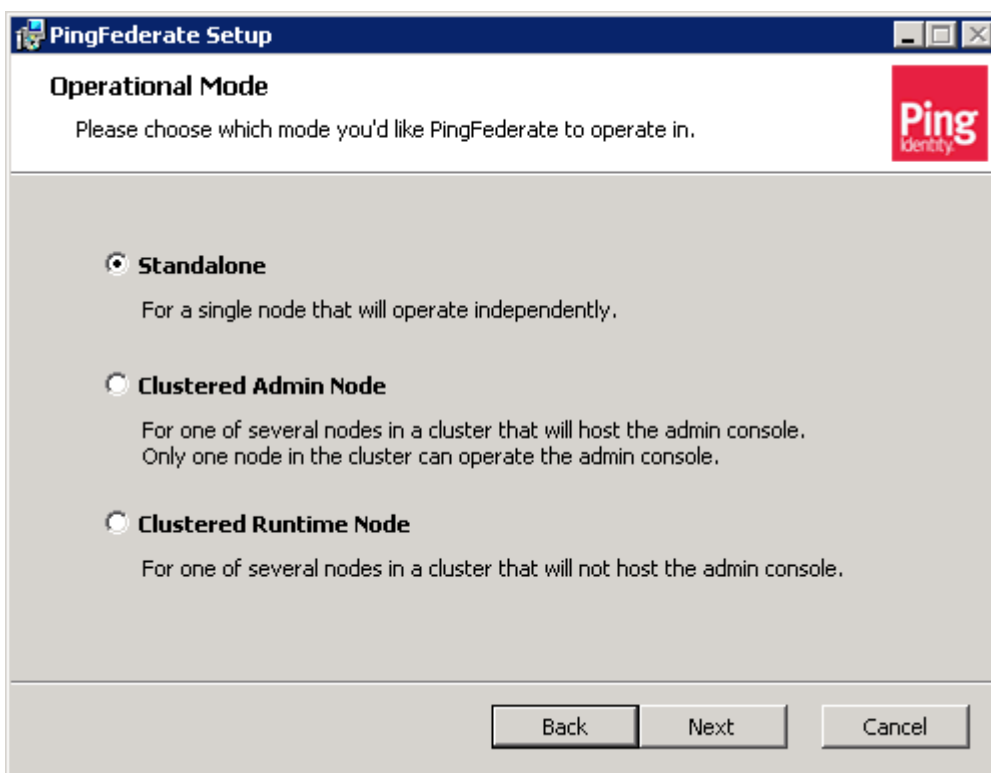
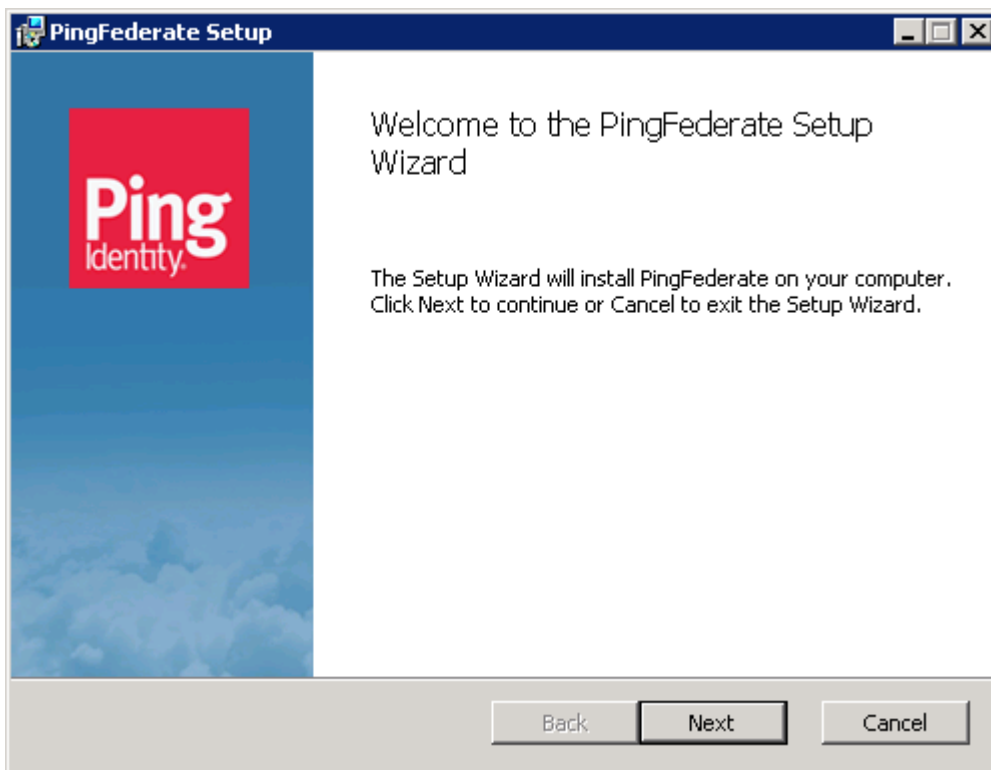
---

Advertencia: Para evitar futuros problemas con las actualizaciones automatizadas, no cambie el nombre de la carpeta pingfederate instalada. Si va a instalar varias instancias de PingFederate en el mismo equipo (por ejemplo, en algunos escenarios de agrupación en clústeres de servidores), instale cada instancia en una ubicación diferente o cambie el nombre de la carpeta principal para instalar una estructura de archivos paralela en la misma ubicación.

---

## Instalar PingFederate con el archivo EXE de distribución


Haga doble clic en el archivo exe y siga los pasos de instalación



**PingFederate Setup**

### Administrative console and API

Enter the port for the admin console and API.




**Admin HTTPS port**

This is the port where PingFederate admin console and API will run.

**PingFederate Setup**

### Engine Settings

Enter the ports that PingFederate will use.

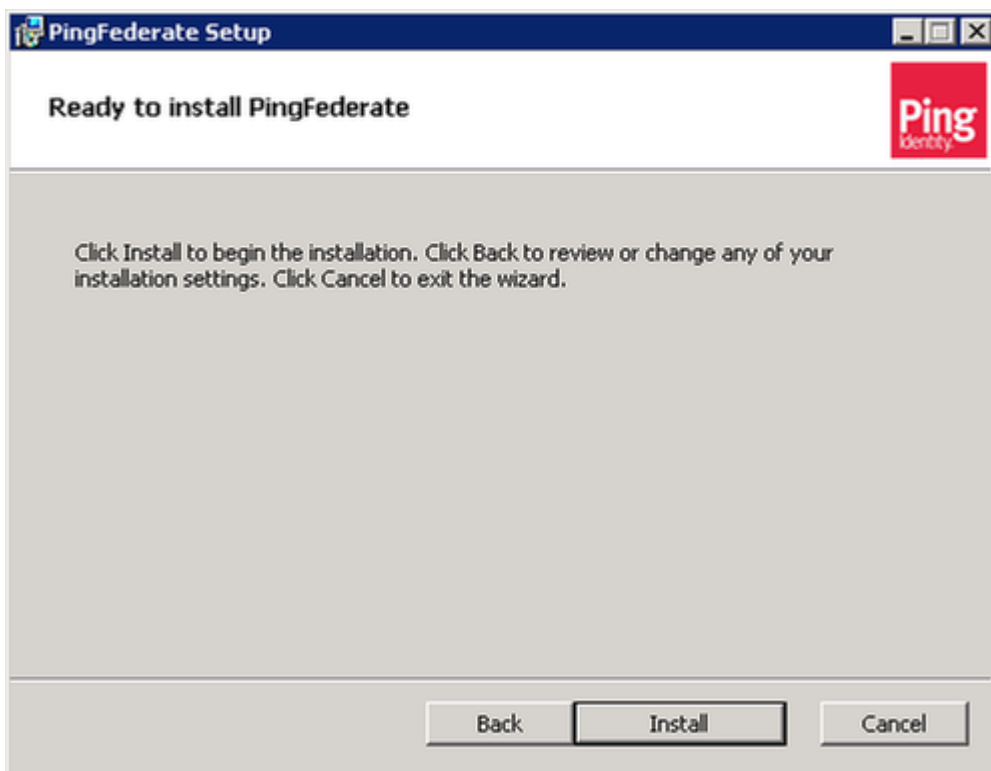
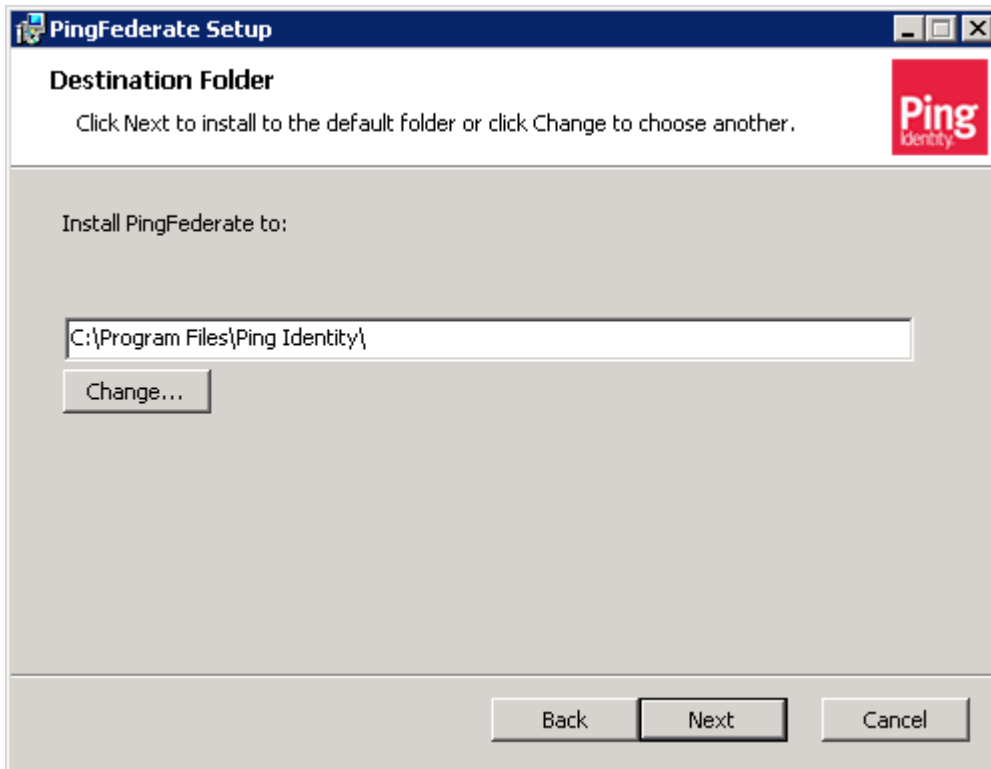


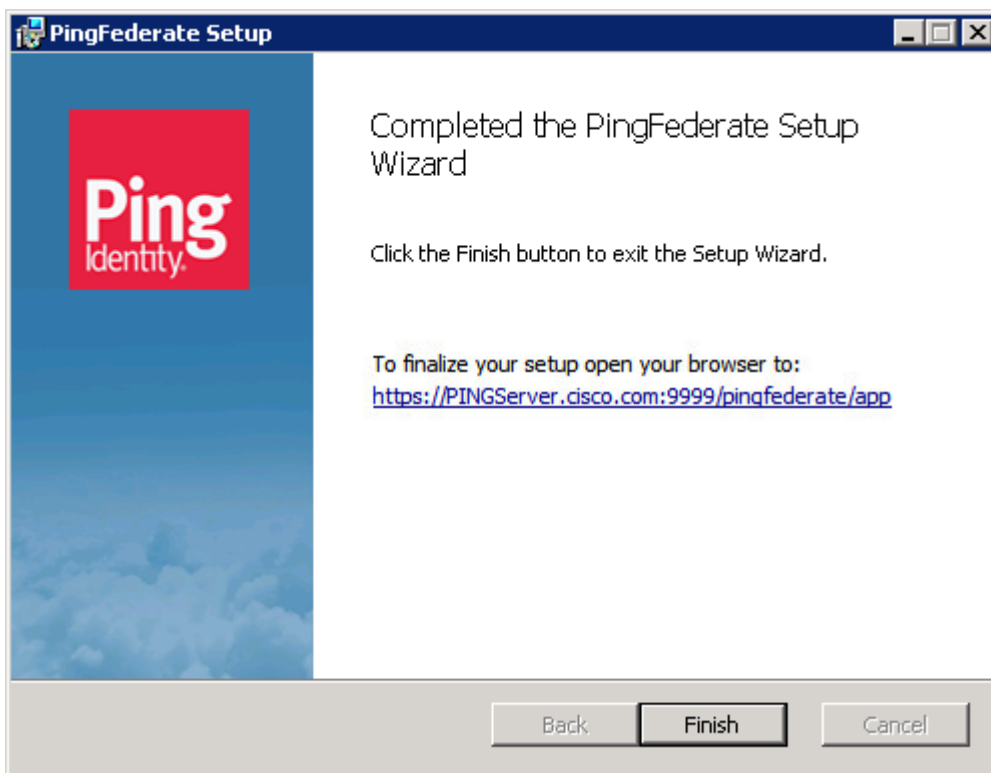
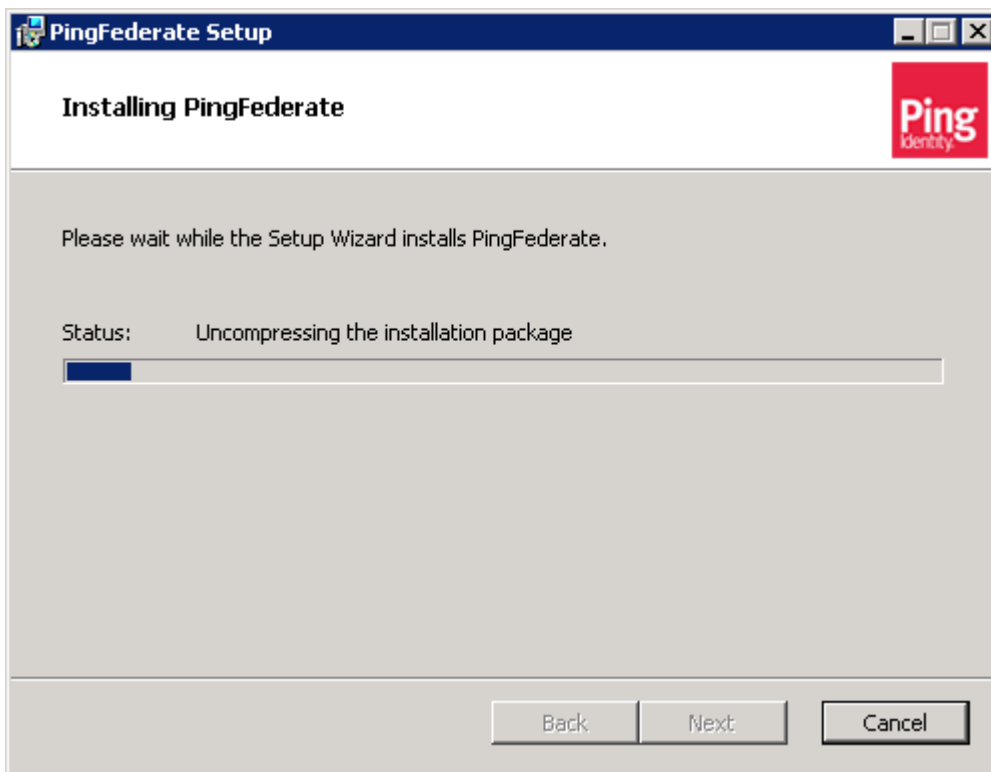
**HTTPS Port**

This is the port where PingFederate will listen for encrypted traffic.

**Secondary HTTPS Port**  Optional

If you need client X.509 certificate based authentication for end users or protocols, enable this port by specifying a value.





## Iniciar PingFederate por primera vez

Si instala PingFederate con uno de los instaladores específicos de la plataforma, PingFederate se configura para ejecutarse como un servicio e iniciarse automáticamente al final del proceso de instalación.

Si instala PingFederate con un archivo ZIP de distribución, ejecute la secuencia de comandos para iniciar PingFederate manualmente.

(Windows) <pf\_install>/pingfederate/bin/run.bat  
(Unix/Linux) <pf\_install>/pingfederate/bin/run.sh

Espere a que finalice el script: el proceso de inicio se completa cuando este mensaje aparece cerca del final de la secuencia:

PingFederate se inició en <X>s:<Y>ms

## Asistente de configuración inicial

La interfaz de usuario del administrador de PingFederate, la consola administrativa, se crea en torno a un sistema de pantallas de control de tipo asistente. Inicie la consola administrativa de PingFederate y utilice el asistente de configuración inicial para completar la configuración de los parámetros de federación de identidades. También puede conectar PingFederate a PingOne para implementar una potente solución híbrida en las instalaciones y basada en la nube.

Para acceder a la consola administrativa:

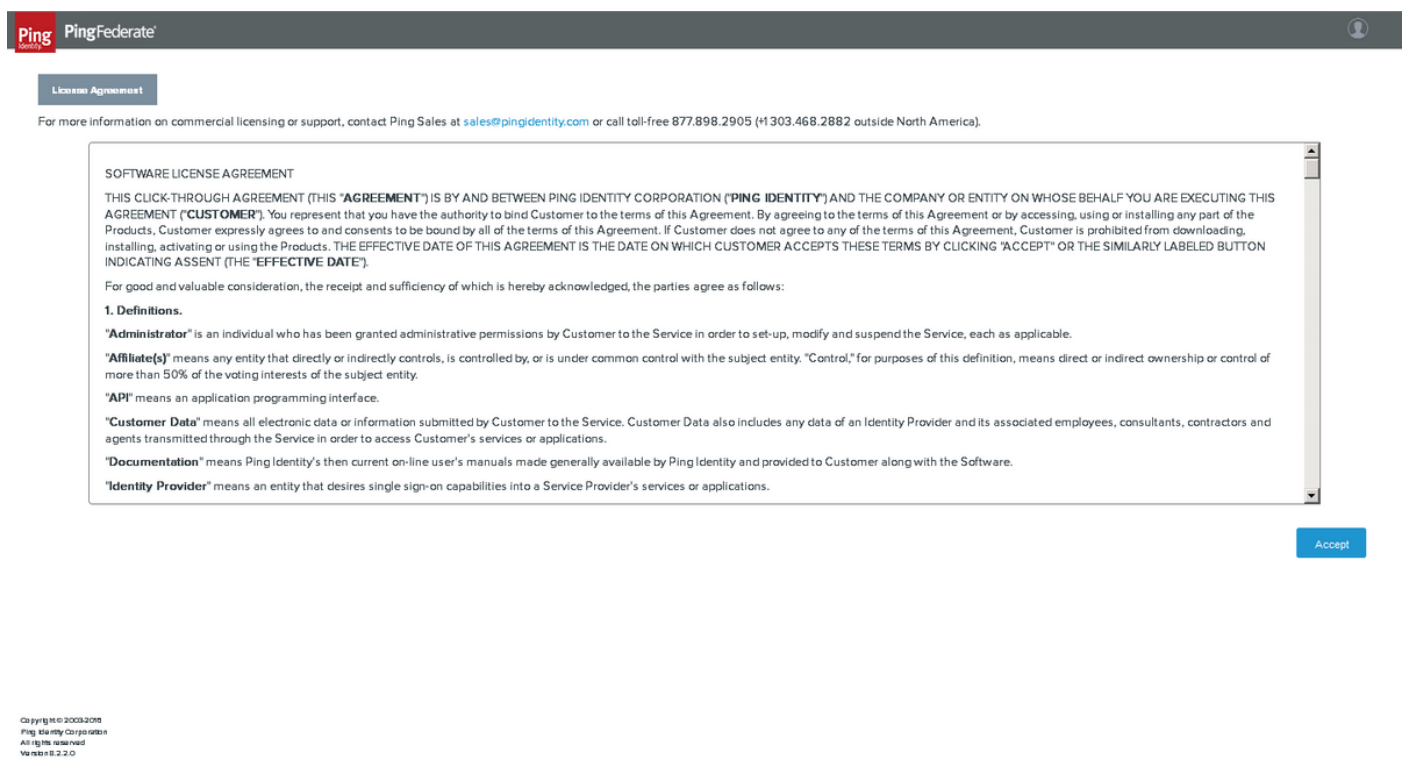
Inicie su navegador y navegue hasta <https://<FQHN>:9999/pingfederate/app> (donde <FQHN> es el nombre de host completamente calificado del servidor donde está instalado PingFederate).

---

Nota: El número de puerto 9999 está definido de forma predeterminada. Esto se puede cambiar mediante las propiedades PingFederate.

---

## Aceptar acuerdo de licencia



**License Agreement**

For more information on commercial licensing or support, contact Ping Sales at [sales@pingidentity.com](mailto:sales@pingidentity.com) or call toll-free 877.898.2905 (+1303.468.2882 outside North America).

**SOFTWARE LICENSE AGREEMENT**

THIS CLICK-THROUGH AGREEMENT (THIS "AGREEMENT") IS BY AND BETWEEN PING IDENTITY CORPORATION ("PING IDENTITY") AND THE COMPANY OR ENTITY ON WHOSE BEHALF YOU ARE EXECUTING THIS AGREEMENT ("CUSTOMER"). You represent that you have the authority to bind Customer to the terms of this Agreement. By agreeing to the terms of this Agreement or by accessing, using or installing any part of the Products, Customer expressly agrees to and consents to be bound by all of the terms of this Agreement. If Customer does not agree to any of the terms of this Agreement, Customer is prohibited from downloading, installing, activating or using the Products. THE EFFECTIVE DATE OF THIS AGREEMENT IS THE DATE ON WHICH CUSTOMER ACCEPTS THESE TERMS BY CLICKING "ACCEPT" OR THE SIMILARLY LABELED BUTTON INDICATING ASSENT (THE "EFFECTIVE DATE").

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

**1. Definitions.**

**"Administrator"** is an individual who has been granted administrative permissions by Customer to the Service in order to set-up, modify and suspend the Service, each as applicable.

**"Affiliate(s)"** means any entity that directly or indirectly controls, is controlled by, or is under common control with the subject entity. "Control," for purposes of this definition, means direct or indirect ownership or control of more than 50% of the voting interests of the subject entity.

**"API"** means an application programming interface.

**"Customer Data"** means all electronic data or information submitted by Customer to the Service. Customer Data also includes any data of an Identity Provider and its associated employees, consultants, contractors and agents transmitted through the Service in order to access Customer's services or applications.

**"Documentation"** means Ping Identity's then current on-line user's manuals made generally available by Ping Identity and provided to Customer along with the Software.

**"Identity Provider"** means an entity that desires single sign-on capabilities into a Service Provider's services or applications.

**Accept**

Copyright © 2003-2019  
Ping Identity Corporation  
All rights reserved.  
Version 8.2.2.0

## Cuenta de PingOne

**Ping** PingFederate

PingOne Account License Basic Information Enable Roles Administrator Account Confirmation Complete!

Do you want to connect this identity provider with PingOne to enable cloud-based single sign-on?

**Yes, Connect to PingOne**  
To connect this PingFederate node to your PingOne account, enter your activation key below.  
[Sign on to PingOne to get your activation key.](#)  
ACTIVATION KEY

**No, Set Up PingFederate Without PingOne**  
PingFederate works with or without a PingOne connection. Continue the setup below to use PingFederate on its own.

Next

Copyright © 2003-2018  
Ping Identity Corporation  
All rights reserved  
Version 11.2.2.0

## Haga clic en Next (Siguiente)

### Licencia

**Ping** PingFederate

PingOne Account License Basic Information Enable Roles Administrator Account Confirmation Complete!

Please upload a valid PingFederate license file.

**License File**  
No file selected  
Choose file

Previous Next

Copyright © 2003-2018  
Ping Identity Corporation  
All rights reserved  
Version 11.2.2.0

Debe adquirir o solicitar una licencia de desarrollo en pingidentity.com, cargar el archivo de licencia y hacer clic en Next (Siguiente)

## Información básica

The screenshot shows the 'Basic Information' step of the PingFederate setup wizard. The breadcrumb trail includes: PingOne Account, License, Basic Information (active), Enable Roles, Administrator Account, Confirmation, and Complete! The main instruction reads: 'Welcome to PingFederate. To set up your enterprise identity bridge, let's first confirm your Base URL and Entity ID.' There are two input fields: 'BASE URL' containing 'https://pingserver.cisco.com:9031' and 'ENTITY ID' containing 'pingserver'. At the bottom right, there are 'Previous' and 'Next' buttons. A footer contains copyright information: 'Copyright © 2003-2018 Ping Identity Corporation. All rights reserved. Version 11.2.2.0'.


Establezca la URL BASE y la ID DE ENTIDAD y haga clic en Next (Siguiente)

## Habilitar funciones

The screenshot shows the 'Enable Roles' step of the PingFederate setup wizard. The breadcrumb trail includes: PingOne Account, License, Basic Information, Enable Roles (active), Identity Provider Configuration, Administrator Account, Confirmation, and Complete! The main instruction reads: 'Please select the roles you expect PingFederate to play.' Under the heading 'ROLES', there are three checkboxes: 'IDENTITY PROVIDER' (checked), 'SERVICE PROVIDER' (unchecked), and 'OAUTH AUTHORIZATION SERVER' (unchecked). At the bottom right, there are 'Previous' and 'Next' buttons. A footer contains copyright information: 'Copyright © 2003-2018 Ping Identity Corporation. All rights reserved. Version 11.2.2.0'.

Seleccione IDENTITY PROVIDER y haga clic en Next .

## Configuración del proveedor de identidad

**Ping** PingFederate 

**PingOne Account** | **License** | **Basic Information** | **Enable Roles** | **Identity Provider Configuration** | Administrator Account | Confirmation | Complete


If you're connecting to Active Directory, start the quick connection process below. You can configure any other user store connections after the PingFederate setup is complete.

### Identity Provider Configuration

Copyright © 2003-2019  
Ping Identity Corporation  
All rights reserved  
Version 8.2.2.0

La conexión a Active Directory se puede realizar más adelante. Haga clic en Next (Siguiente)

## Cuenta de administrador

**Ping** PingFederate 

**PingOne Account** | **License** | **Basic Information** | **Enable Roles** | **Identity Provider Configuration** | **Administrator Account** | Confirmation | Complete

Please choose a username and password for your primary administrator. You can add other administrators to PingFederate after setup is complete.

USERNAME

PASSWORD

CONFIRM PASSWORD

Copyright © 2003-2019  
Ping Identity Corporation  
All rights reserved  
Version 8.2.2.0

Establezca la contraseña del administrador y haga clic en Next (Siguiente)

## Confirmación

**Ping** PingFederate

PingOne Account License Basic Information Enable Roles Identity Provider Configuration Administrator Account Confirmation Completed

Here is a summary of your PingFederate configuration:

BASE URL:	https://pingserver.cisco.com:9031
ENTITY ID:	pingserver
ENABLE ROLE:	Identity Provider
CREATE ACCOUNT:	Administrator

Previous Next

Copyright © 2003-2018  
Ping Identity Corporation  
All rights reserved  
Version 5.2.2.0

Confirme y haga clic en Next .

## Completo

**Ping** PingFederate

PingOne Account License Basic Information Enable Roles Identity Provider Configuration Administrator Account Confirmation Completed

Congratulations! You have successfully set up PingFederate.

What's Next?

**IDENTITY PROVIDER**

You can begin creating Service Provider connections to your target applications. Choose Create New under SP Connections to get started.

Done

Copyright © 2003-2018  
Ping Identity Corporation  
All rights reserved  
Version 5.2.2.0

Haga clic en Done (Listo)

# Configurar PingFederate

## Configuración del servidor

The screenshot shows the PingFederate web interface. At the top, there is a 'License Warning: Approaching expiration date' banner. The main navigation menu on the left includes 'MAIN', 'IdP Configuration', and 'Server Configuration'. The 'Server Configuration' page is divided into three sections: 'SYSTEM SETTINGS' (Server Settings, Connect to PingOne, Data Stores, Redirect Validation), 'ADMINISTRATIVE FUNCTIONS' (Metadata Export, XML File Signatures, Configuration Archive, Account Management, License Management, Virtual Host Names), and 'CERTIFICATE MANAGEMENT' (Trusted CAs, SSL Server Certificates, SSL Client Keys & Certificates, Signing & Decryption Keys & Certificates, Certificate Revocation Checking, Metadata URLs). Below these is an 'AUTHENTICATION' section with links for Application Authentication, Password Credential Validators, and Active Directory Domains/Kerberos Realms. A footer at the bottom left contains copyright information: 'Copyright © 2003-2019 Ping Identity Corporation. All rights reserved. Version 8.2.0'.

Claves y certificados de descifrado XML (Lenguaje de marcado extensible) y firmas digitales

Haga clic en Configuración del servidor > Administración de certificados > Claves y certificados de firma y descifrado XML

The screenshot shows the 'Certificate Management' page in the PingFederate interface. It features a 'License Warning: Approaching expiration date' banner at the top. Below the banner, there is a heading 'Certificate Management' and a descriptive paragraph: 'Establish and maintain your server's signing certificates, which may be used to sign assertions, security tokens, requests, and responses. These certificates may also be used for decryption.' A table with the following columns is visible: 'Serial', 'Subject DN', 'Expires', 'Key Details', 'Status', and 'Action'. Below the table, there are two buttons: 'Create New' and 'Import'. At the bottom right, there are 'Cancel' and 'Save' buttons.

Haga clic en Crear nuevo

Crear certificado

Ping Identity PingFederate

License Warning: Approaching expiration date

MAIN

IdP Configuration

Server Configuration

Certificate Management | Create Certificate

Create Certificate Summary

Create a new Certificate and Private Key.

COMMON NAME SSO

ORGANIZATION CISCO

ORGANIZATIONAL UNIT CBABU

CITY Bangalore

STATE Karnataka

COUNTRY IN

VALIDITY (DAYS) 365

KEY ALGORITHM RSA

KEY SIZE (BITS) 2048

SIGNATURE ALGORITHM RSA SHA256

Copyright © 2008-2018 Ping Identity Corporation. All rights reserved. Version 8.2.2.0

Cancel Next

Haga clic en Next (Siguiente)

Exportar certificado

Ping Identity PingFederate

License Warning: Approaching expiration date

MAIN

IdP Configuration

Server Configuration

Certificate Management | Export Certificate

Export Certificate Export & Summary

You have a choice of exporting the certificate and the key or just the certificate.

CERTIFICATE ONLY

CERTIFICATE AND PRIVATE KEY

Exportar y resumir

License Warning: Approaching expiration date

Certificate Management | Export Certificate

Export Certificate | Export & Summary

Click the Export button to export this certificate to the file system.

Export Certificate

Subject DN	CN=SSO, OU=CBABU, O=CISCO, L=Bengaluru, ST=Karnataka, CHN
Issuer DN	CN=SSO, OU=CBABU, O=CISCO, L=Bengaluru, ST=Karnataka, CHN
Serial Number	015867 E2988D
Expires	Wed Nov 15 17:37:33 IST 2017

Export

Cancel Previous Done

Copyright © 2003-2018 Ping Identity Corporation. All rights reserved. Version 8.2.2.0

Haga clic en Exportar

Almacenes de datos

Haga clic en Server Configuration > SYSTEM SETTINGS > Data Stores

License Warning: Approaching expiration date

Manage Data Stores

Manage data store definitions for use with attribute lookups.

Description	System ID	User	Type	Ldap Type	Action
jdbc:hsqldb:\${pf.server.data.dir}/\${hypersonic}/\${ProvisionerDefaultDB;hsqldb.lock_file=false	ProvisionerDS	sa	Database		Delete   Check Usage

Add New Data Store

Cancel Save

Copyright © 2003-2018 Ping Identity Corporation. All rights reserved. Version 8.2.2.0

Haga clic en Agregar nuevo almacén de datos

## Configuración de LDAP

Copyright © 2003-2016 Ping Identity Corporation. All rights reserved. Version 8.2.2.0

License Warning: Approaching expiration date

### Manage Data Stores | Data Store

Data Store Type | LDAP Configuration | Summary

Please select a type of data store.

DATABASE

LDAP

CUSTOM

Cancel Next

Elija LDAP y haga clic en Next .

Copyright © 2003-2016 Ping Identity Corporation. All rights reserved. Version 8.2.2.0

License Warning: Approaching expiration date

### Manage Data Stores | Data Store

Data Store Type | LDAP Configuration | Summary

Please provide the details for configuring this LDAP connection.

HOSTNAME(S) 10.78.93.148:389

LDAP TYPE Active Directory

BIND ANONYMOUSLY

USER DN cn=Administrator,cn=u

PASSWORD

USE LDAPS

MASK VALUES IN LOG

Advanced

Cancel Previous Next

Introduzca los valores y haga clic en Next (Siguiete)

Summary

The screenshot shows the PingFederate interface for configuring a Data Store. The left sidebar contains navigation options: MAIN, IdP Configuration, and Server Configuration. The main content area has a license warning at the top, followed by the title 'Manage Data Stores | Data Store'. Below the title are three tabs: 'Data Store Type', 'LDAP Configuration', and 'Summary'. A message states 'Click a heading link to edit a configuration setting.' The 'Data Store' section is expanded, showing 'Data Store Type' as LDAP. Under 'LDAP Configuration', the 'Hostname(s)' is '10.78.93.148:389' and the 'Username' is 'cn=Administrator,cn=users,dc=cisco,dc=com'. At the bottom right, there are buttons for 'Cancel', 'Previous', 'Done', and 'Save'.

Haga clic en Guardar después de la verificación.

## Validadores de credenciales de contraseña

Haga clic en Configuración del servidor > AUTENTICACIÓN > Validadores de credenciales de contraseña

The screenshot shows the PingFederate interface for managing Credential Validator Instances. The left sidebar is the same as in the previous screenshot. The main content area has a license warning at the top, followed by the title 'Manage Credential Validator Instances'. Below the title is a descriptive paragraph: 'Credential Validators are plug-ins used to verify username and password pairs in various contexts throughout the system. The actual application of a Validator instance must be configured in the appropriate context as needed (e.g., OAuth Resource Owner Credentials Mapping)'. Below this is a table with columns: 'Instance Name', 'Instance Id', 'Type', 'Parent Name', and 'Action'. A 'Create New Instance' button is located below the table. At the bottom right, there are buttons for 'Cancel' and 'Save'.

Haga clic en Crear nueva instancia.

## Tipo

License Warning: Approaching expiration date

### Manage Credential Validator Instances | Create Credential Validator Instance

Type Instance Configuration Extended Contract Summary

Identify this Credential Validator Instance. The Validator types available are limited to the plug-in implementations currently installed on your server.

INSTANCE NAME: LDAP Validator

INSTANCE ID: LDAPValidator

TYPE: LDAP Username Password Credential Validator [Visit Pingidentity.com for additional types](#)

PARENT INSTANCE: None

Cancel Next

Copyright © 2003-2016 Ping Identity Corporation. All rights reserved. Version 9.2.2.0

Seleccione el Validador de credenciales de contraseña de nombre de usuario LDAP como TYPE. Haga clic en Next (Siguiente).

## Configuración de instancia

License Warning: Approaching expiration date

### Manage Credential Validator Instances | Create Credential Validator Instance

Type Instance Configuration Extended Contract Summary

Complete the configuration necessary for this Password Credential Validator to check username/password pairs. This configuration was designed into, and is specific to, the selected Credential Validator plug-in.

This password credential validator provides a means of verifying credentials stored in a directory server via the LDAP protocol. Additional user attributes from the directory can also be returned by this PCV by adding the desired attribute names to the Extended Contract.

AUTHENTICATION ERROR OVERRIDES  
[A table of LDAP authentication error codes and customized matching expressions that will match the error code to an LDAP error message. These entries override the default individual mappings of messages to codes. Use the localization features to customize the error messages displayed to end users.]

MATCH EXPRESSION [The expression matched against the LDAP error message returned by the server] ERROR Action

[Add a new row to Authentication Error Overrides](#)

Field Name	Field Value	Description
LDAP DATASTORE	10.78.93.148:389	Select the LDAP Datastore.
SEARCH BASE	CN=Users,DC=disco,DC=com	The location in the directory from which the LDAP search begins.
SEARCH FILTER	sAMAccountName=\${username}	You may use \${username} as part of the query. Example (for Active Directory): sAMAccountName=\${username}
SCOPE OF SEARCH	<input type="radio"/> One Level <input checked="" type="radio"/> Subtree	
CASE-SENSITIVE MATCHING	<input checked="" type="checkbox"/>	Allows case-sensitive expression and LDAP error matching.

Manage Data Stores

Cancel Previous Next

Copyright © 2003-2016 Ping Identity Corporation. All rights reserved. Version 9.2.2.0

Seleccione el almacén de datos LDAP e introduzca la base de búsqueda, el filtro de búsqueda y

el alcance de la búsqueda. Haga clic en Next (Siguiente).

Contrato ampliado

License Warning: Approaching expiration date

Manage Credential Validator Instances | Create Credential Validator Instance

Type Instance Configuration Extended Contract Summary

You can extend the attribute contract of this Password Credential Validator instance.

**Core Contract**

DN

givenName

mail

username

Extend the Contract	Action
<input type="text"/>	<input type="button" value="Add"/>

Cancel Previous Next

Copyright © 2003-2018 Ping Identity Corporation. All rights reserved. Version 6.2.2.0

Haga clic en Next (Siguiente)

Summary

License Warning: Approaching expiration date

Manage Credential Validator Instances | Create Credential Validator Instance

Type Instance Configuration Extended Contract Summary

Password Credential Validator configuration summary.

Create Credential Validator Instance

**Type**

Instance Name	LDAP Validator
Instance Id	LDAPValidator
Type	LDAP Username Password Credential Validator
Class Name	org.sourceid.saml20.domsin.LDAPUsernamePasswordCredentialValidator
Parent Instance Name	None

**Instance Configuration**

LDAP Datasource	10.78.93.148:389
Search Base	CN=Users,DC=cisco,DC=com
Search Filter	sAMAccountName=\${username}
Scope of Search	Subtree
Case-Sensitive Matching	true

**Extended Contract**

Attribute	mail
Attribute	givenName
Attribute	DN
Attribute	username

Cancel Previous Done

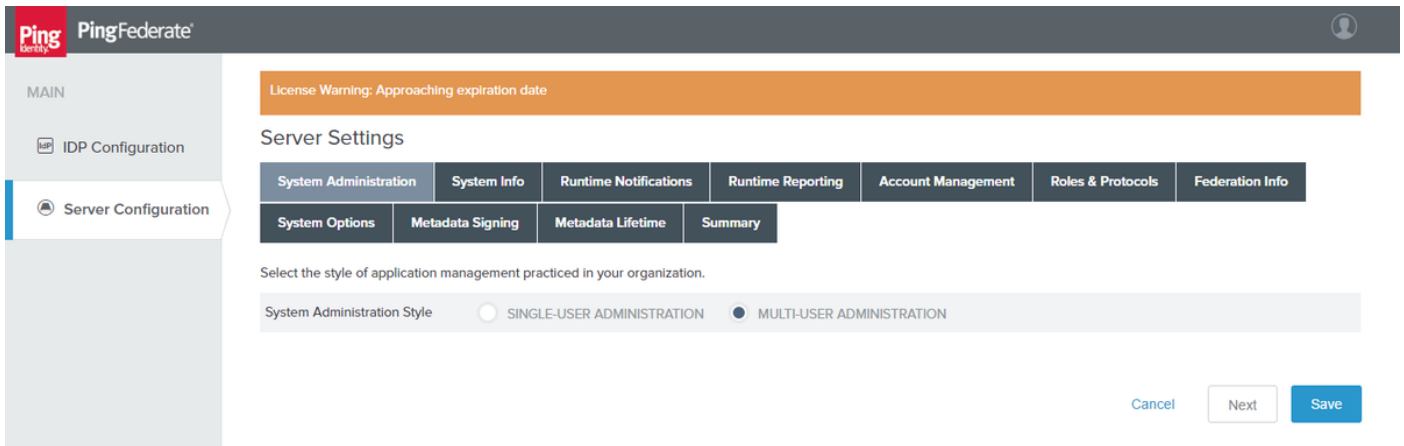
Copyright © 2003-2018 Ping Identity Corporation. All rights reserved. Version 6.2.2.0

Compruebe los parámetros y haga clic en Finalizado.

## Configuración del servidor

### Administración del sistema

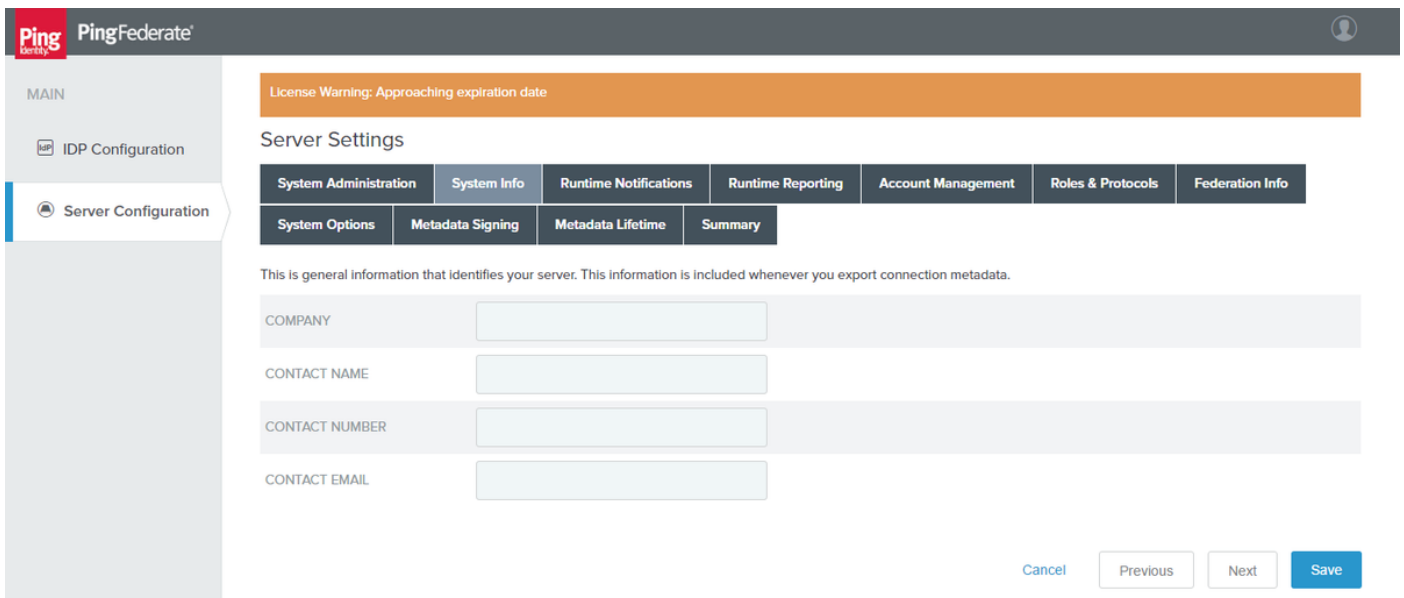
Haga clic en Configuración del servidor > CONFIGURACIÓN DEL SISTEMA > Configuración del servidor



The screenshot shows the PingFederate administration interface. At the top, there is a 'License Warning: Approaching expiration date' banner. Below it, the 'Server Settings' section is active, with a sub-tab 'System Administration' selected. The page contains a form for selecting the 'System Administration Style'. The 'MULTI-USER ADMINISTRATION' option is selected with a radio button. At the bottom right, there are 'Cancel', 'Next', and 'Save' buttons.

Haga clic en Next (Siguiente).

### Información del sistema



The screenshot shows the 'System Information' section of the PingFederate administration interface. It features a form for entering general server information. The fields include 'COMPANY', 'CONTACT NAME', 'CONTACT NUMBER', and 'CONTACT EMAIL', each with a corresponding text input box. At the bottom right, there are 'Cancel', 'Previous', 'Next', and 'Save' buttons.

Haga clic en Next (Siguiente).

### Notificaciones en tiempo de ejecución

Ping Federate

License Warning: Approaching expiration date

Server Settings

System Administration | System Info | Runtime Notifications | Runtime Reporting | Account Management | Roles & Protocols | Federation Info

System Options | Metadata Signing | Metadata Lifetime | Summary

Select which server events result in notifications sent via email.

NOTIFICATION FOR SERVER LICENSING EVENTS

NOTIFICATION FOR CERTIFICATE EVENTS

NOTIFICATION FOR SAML METADATA UPDATE EVENTS

Cancel Previous Next Save

Haga clic en Next (Siguiente).

Informes en tiempo de ejecución

Ping Federate

License Warning: Approaching expiration date

Server Settings

System Administration | System Info | Runtime Notifications | Runtime Reporting | Account Management | Roles & Protocols | Federation Info

System Options | Metadata Signing | Metadata Lifetime | Summary

If your organization uses SNMP to monitor infrastructure, you can integrate this server with your existing network-management console.

RESPOND TO GET REQUESTS

GENERATE TRAPS

Cancel Previous Next Save

Haga clic en Next (Siguiente).

Administración de cuentas

Ping Federate

License Warning: Approaching expiration date

Server Settings

System Administration | System Info | Runtime Notifications | Runtime Reporting | Account Management | Roles & Protocols | Federation Info

System Options | Metadata Signing | Metadata Lifetime | Summary

Manage administrative-console or API users and their role assignments.

Username		User Admin	Admin	Crypto Admin	Action
Administrator	<input type="radio"/> AUDITOR <input checked="" type="radio"/> ADMIN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deactivate   Change Password

Create User

NOTIFY USER OF PASSWORD CHANGE

Cancel Previous Next Save

Haga clic en Next (Siguiete).

Nota: En esta sección puede agregar o cambiar la contraseña del usuario.

## Funciones y protocolos

The screenshot shows the PingFederate interface. The top navigation bar includes the Ping Identity logo and 'PingFederate'. A sidebar on the left has 'MAIN' and 'Server Configuration' selected. The main content area is titled 'Server Settings' and has a sub-tab 'Roles & Protocols'. A license warning banner is at the top. Below it, a list of roles and protocols is shown with checkboxes: 'ENABLE OAUTH 2.0 AUTHORIZATION SERVER (AS) ROLE' (unchecked), 'ENABLE IDENTITY PROVIDER (IDP) ROLE AND SUPPORT THE FOLLOWING:' (checked), 'SAML 2.0' (checked), 'AUTO-CONNECT PROFILE' (unchecked), 'SAML 1.1' (unchecked), 'SAML 1.0' (unchecked), 'WS-FEDERATION' (unchecked), 'OUTBOUND PROVISIONING' (unchecked), 'WS-TRUST' (unchecked), 'ENABLE SERVICE PROVIDER (SP) ROLE AND SUPPORT THE FOLLOWING:' (unchecked), and 'ENABLE IDP DISCOVERY ROLE (SAML 2.0 ONLY)' (unchecked). At the bottom right are 'Cancel', 'Previous', 'Next', and 'Save' buttons.

Seleccione los roles y protocolos adecuados. Haga clic en Next (Siguiete).

## Información de federación

The screenshot shows the PingFederate interface. The top navigation bar includes the Ping Identity logo and 'PingFederate'. A sidebar on the left has 'MAIN' and 'Server Configuration' selected. The main content area is titled 'Server Settings' and has a sub-tab 'Federation Info'. A license warning banner is at the top. Below it, a text box explains: 'You must create a unique identifier for your server for use with your federation partners. A unique identifier is required for each protocol enabled. You will need to communicate this with your partners out-of-band or through metadata exchange. The Base URL is used to construct other URLs in the system and may be used as part of your system ID.' Below this are two input fields: 'BASE URL' with the value 'https://pingserver.cisco.com:9031' and 'SAML 2.0 ENTITY ID' with the value 'pingserver'. At the bottom right are 'Cancel', 'Previous', 'Next', and 'Save' buttons.

Haga clic en Next (Siguiete).

## Opciones del sistema

The screenshot shows the PingFederate administration interface. At the top, there is a license warning: "License Warning: Approaching expiration date". The main navigation menu on the left includes "MAIN", "IDP Configuration", and "Server Configuration". The "Server Configuration" section is active, and the "System Options" tab is selected. The "Server Settings" section contains several configuration options: "DISABLE AUTOMATIC CONNECTION VALIDATION" (checkbox), "DATA-STORE VALIDATION INTERVAL (SECS)" (input field with value 300), "Incoming Proxy Settings" section with "HTTP HEADER FOR CLIENT IP ADDRESSES", "HTTP HEADER FOR HOSTNAME", "CLIENT CERTIFICATE HEADER NAME", and "CLIENT CERTIFICATE CHAIN HEADER NAME" (all input fields), and "INCOMING PROXY TERMINATES HTTPS CONNECTIONS" (checkbox). At the bottom right, there are buttons for "Cancel", "Previous", "Next", and "Save".

Haga clic en Next (Siguiente).

Firma de metadatos

The screenshot shows the PingFederate administration interface, specifically the "Metadata Signing" tab under "Server Settings". A license warning is visible at the top. The navigation menu on the left is the same as in the previous screenshot. The "Metadata Signing" tab is active, and the "Summary" sub-tab is selected. The configuration area includes the instruction: "Select a certificate for signing the metadata which will be published. If no certificate is selected, the published metadata will not be signed." Below this, there are two dropdown menus: "SIGNING CERTIFICATE" (selected value: 0158:67:E2:98:8D (cn=SSO)) and "SIGNING ALGORITHM" (selected value: RSA SHA256). A "Manage Certificates" button is located below the dropdowns. At the bottom right, there are buttons for "Cancel", "Previous", "Next", and "Save".

Seleccione el certificado de firma y el algoritmo de firma creados anteriormente como parte de la configuración del certificado. Haga clic en Next (Siguiente).

Duración de metadatos

Ping Identity PingFederate

License Warning: Approaching expiration date

Server Settings

System Administration System Info Runtime Notifications Runtime Reporting Account Management Roles & Protocols Federation Info

System Options Metadata Signing Metadata Lifetime Summary

Specify validity period for published metadata and refresh delay for automated metadata reloading.

CACHE DURATION (MINUTES) 1440

RELOAD DELAY (MINUTES) 1440

Cancel Previous Next Save

Haga clic en Next (Siguiente).

Summary

Ping Identity PingFederate

License Warning: Approaching expiration date

Server Settings

System Administration System Info Runtime Notifications Runtime Reporting Account Management Roles & Protocols Federation Info System Options Metadata Signing

Metadata Lifetime Summary

Server Settings Summary Information

Summary

Server Settings

**System Administration**

Multiple Administrators true

**System Info**

**Runtime Notifications**

Certificate Events false

License Events false

Metadata Events false

**Email Notification** You must provide a "From" Address. You must provide an Email Server.

From Address

Email Server

SMTP Port 25

SMTPS Port 465

Connection Timeout 30

Encryption Method None

Enable SMTP Debugging Messages false

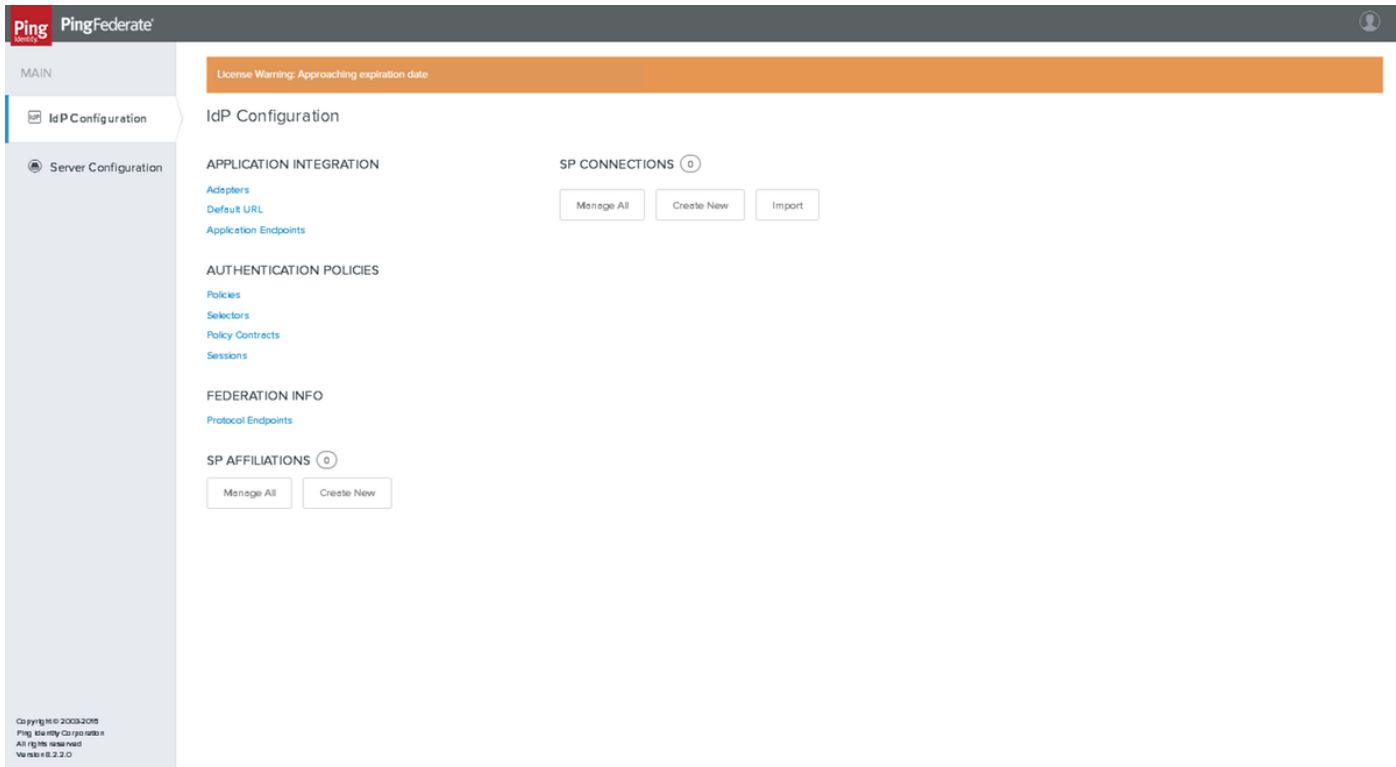
Username

Retry Attempt 2

Copyright © 2009-2019 Ping Identity Corporation All rights reserved. Version 8.2.2.0

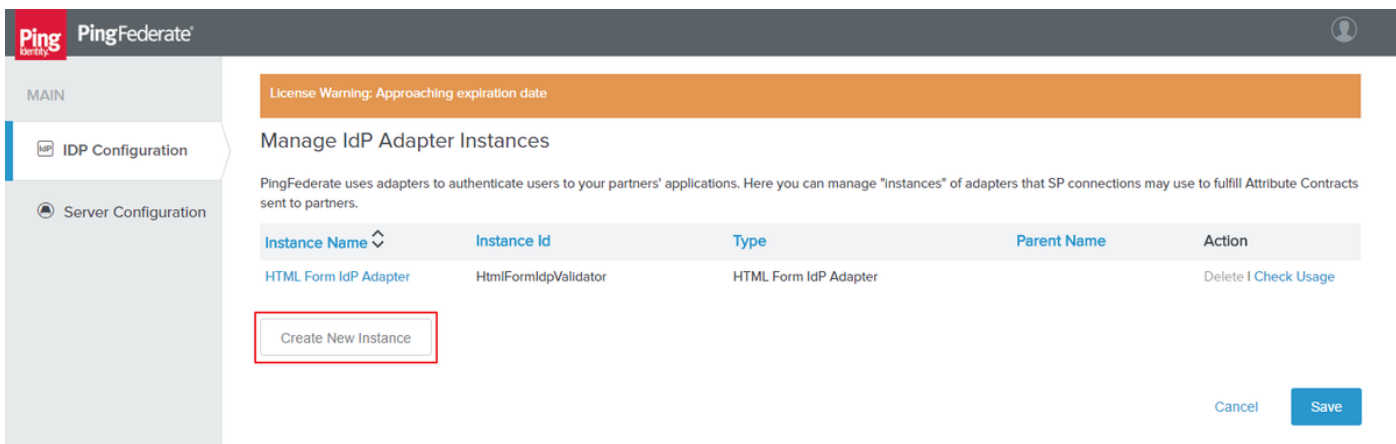
Compruebe la configuración y haga clic en Guardar.

Configuración del proveedor de identidad (IdP)



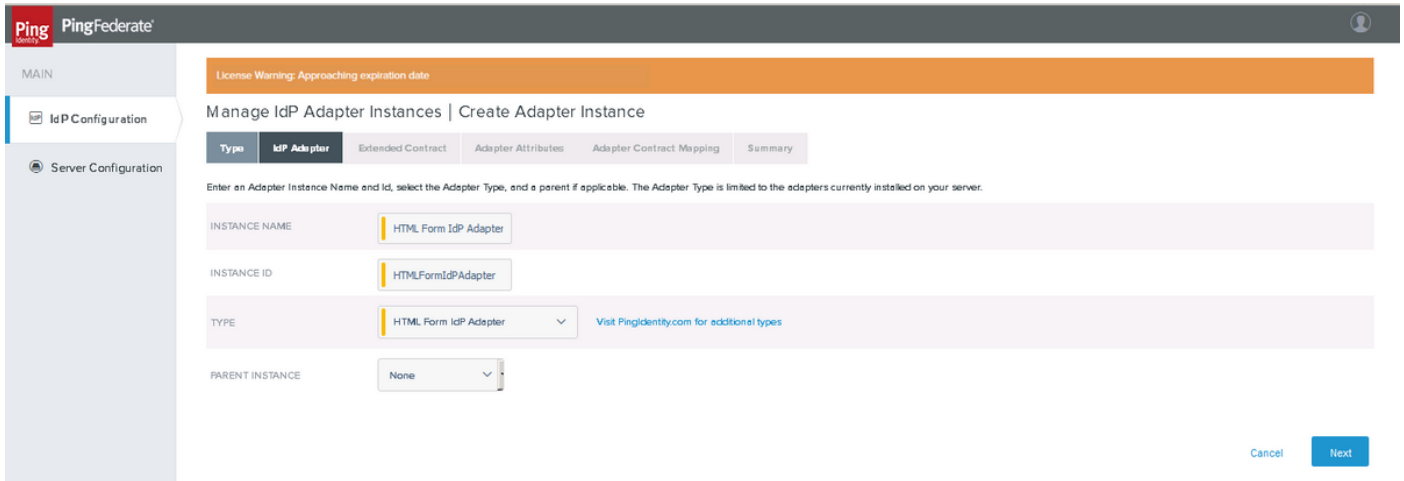
## Adaptadores

Haga clic en Configuración IdP > INTEGRACIÓN DE APLICACIONES > Adaptadores



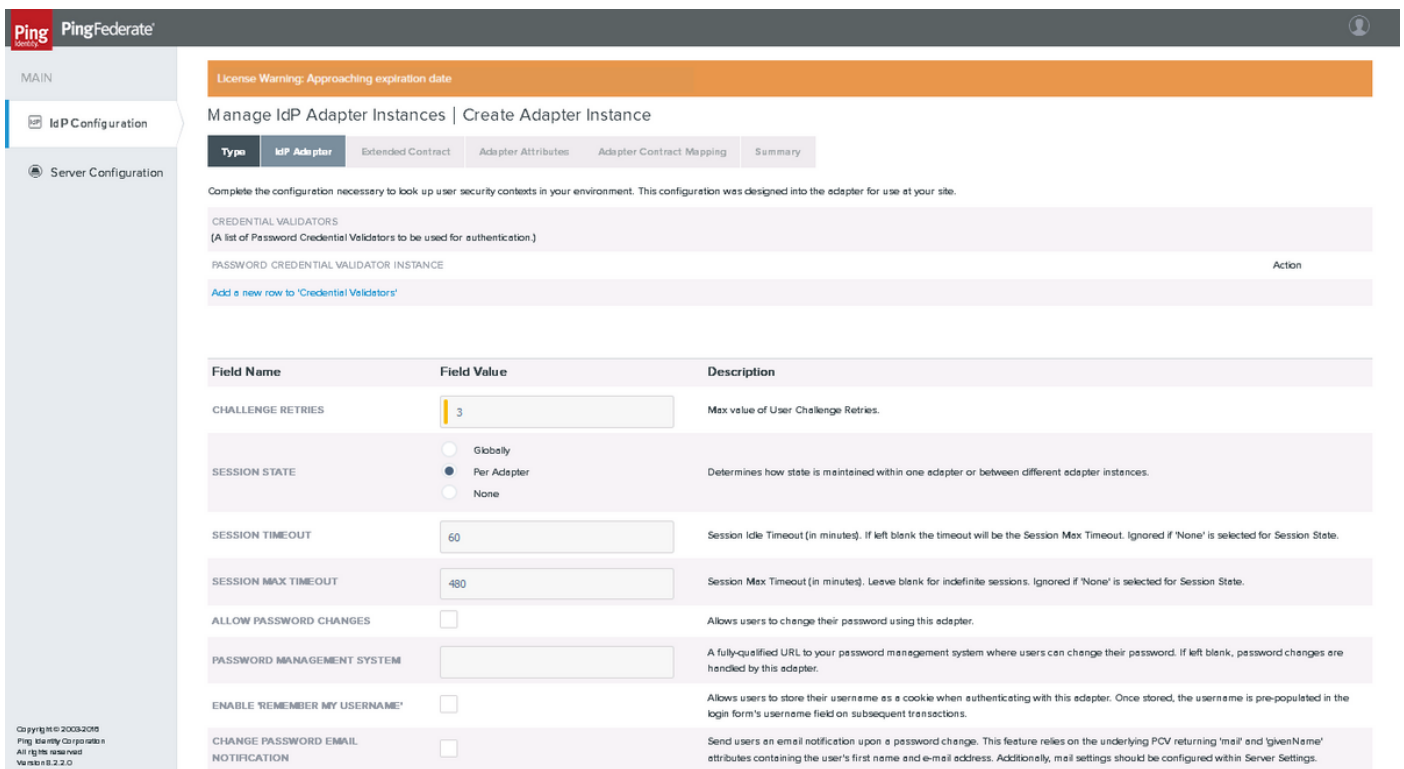
Haga clic en Crear nueva instancia.

Tipo



Seleccione Adaptador IDP de formulario HTML. Haga clic en Next (Siguiente).

### Adaptador IDP



Haga clic en Agregar una nueva fila a 'Validadores de credenciales' y seleccione el validador LDAP que se creó anteriormente como INSTANCIA DE VALIDADOR DE CREDENCIALES DE CONTRASEÑA y haga clic en Actualizar. Haga clic en Siguiente.

### Contrato ampliado

Ping Federate

License Warning: Approaching expiration date

Manage IdP Adapter Instances | Create Adapter Instance

Type | IdP Adapter | Extended Contract | Adapter Attributes | Adapter Contract Mapping | Summary

This adapter type supports the creation of an Extended Adapter Contract after initial deployment of the adapter instance. This Adapter Contract may be used to fulfill the Attribute Contract, look up additional attributes from a local data store, or create a persistent name identifier which uniquely identifies the user passed to your SP partners.

**Core Contract**

username

**Extend the Contract**      **Action**

email	<a href="#">Edit</a>   <a href="#">Delete</a>
firstname	<a href="#">Edit</a>   <a href="#">Delete</a>
lastname	<a href="#">Edit</a>   <a href="#">Delete</a>
uid	<a href="#">Edit</a>   <a href="#">Delete</a>
updateTimestamp	<a href="#">Edit</a>   <a href="#">Delete</a>
user_principal	<a href="#">Edit</a>   <a href="#">Delete</a>

[Cancel](#) [Previous](#) [Next](#) [Done](#)

Agregue los contratos tal y como se muestra. Haga clic en Next (Siguiente).

Atributos del adaptador

Ping Federate

License Warning: Approaching expiration date

Manage IdP Adapter Instances | Create Adapter Instance

Type | IdP Adapter | Extended Contract | Adapter Attributes | Adapter Contract Mapping | Summary

As an IdP, some of your SP partners may choose to receive a pseudonym to uniquely identify a user. From the attributes in this authentication adapter, please select the values that you would like to use in constructing this unique identifier. Optionally, specify here any attributes that must be masked in log files.

Attribute	Pseudonym	Mask Log Values
email	<input checked="" type="checkbox"/>	<input type="checkbox"/>
firstname	<input checked="" type="checkbox"/>	<input type="checkbox"/>
lastname	<input checked="" type="checkbox"/>	<input type="checkbox"/>
uid	<input checked="" type="checkbox"/>	<input type="checkbox"/>
updateTimestamp	<input checked="" type="checkbox"/>	<input type="checkbox"/>
user_principal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
username	<input checked="" type="checkbox"/>	<input type="checkbox"/>

MASK ALL OGNL-EXPRESSION GENERATED LOG VALUES

[Cancel](#) [Previous](#) [Next](#) [Done](#)

Haga clic en Next (Siguiente).

Asignación de contratos de adaptador

The screenshot shows the 'Configure Adapter Contract' step in the PingFederate interface. At the top, there is a license warning: 'License Warning: Approaching expiration date'. The main heading is 'Manage IdP Adapter Instances | Create Adapter Instance'. Below this are several tabs: 'Type', 'IdP Adapter', 'Extended Contract', 'Adapter Attributes', 'Adapter Contract Mapping', and 'Summary'. A descriptive paragraph states: 'An Adapter Contract may be used to fulfill the Attribute Contract passed to your SP partners. By default, the adapter contract is fulfilled by the adapter itself. Optionally, additional attributes from local data stores can be used to fulfill the contract.' A red box highlights the 'Configure Adapter Contract' button. At the bottom right, there are navigation buttons: 'Cancel', 'Previous', 'Next', and 'Done'.

Haga clic en Configurar contrato de adaptador.

Orígenes de atributos y búsqueda de usuarios

The screenshot shows the 'Adapter Contract Mapping' step in the PingFederate interface. At the top, there is a license warning: 'License Warning: Approaching expiration date'. The main heading is 'Manage IdP Adapter Instances | Create Adapter Instance | Adapter Contract Mapping'. Below this are several tabs: 'Attribute Sources & User Lookup', 'Adapter Contract Fulfillment', 'Issuance Criteria', and 'Summary'. A descriptive paragraph states: 'You can choose to fulfill the Adapter Contract with the adapter's default values, or you can use these values plus additional attributes retrieved from local data stores.' Below the text is a table with the following data:

Description	Type	Action
LdapQA	LDAP	Delete

Below the table is an 'Add Attribute Source' button. At the bottom right, there are navigation buttons: 'Cancel', 'Next', and 'Done'.

Agregue un origen de atributo y seleccione el almacén LDAP creado anteriormente. Haga clic en Next (Siguiente).

Cumplimiento del contrato del adaptador

PingFederate

License Warning: Approaching expiration date

Manage IdP Adapter Instances | Create Adapter Instance | Adapter Contract Mapping

Attribute Sources & User Lookup | Adapter Contract Fulfillment | Issuance Criteria | Summary

Fulfill your Adapter Contract with values from the authentication adapter or with dynamic text values.

Contract	Source	Value	Actions
email	LDAP (LdapQA)	mail	None available
firstname	LDAP (LdapQA)	givenName	None available
lastname	LDAP (LdapQA)	sn	None available
uid	LDAP (LdapQA)	sAMAccountName	None available
updateTimestamp	LDAP (LdapQA)	whenChanged	None available
user_principal	LDAP (LdapQA)	userPrincipalName	None available
username	LDAP (LdapQA)	sAMAccountName	None available

Cancel Previous Next Done

Asigne los atributos. Haga clic en Next (Siguiete).

Crterios de emisin

PingFederate

License Warning: Approaching expiration date

Manage IdP Adapter Instances | Create Adapter Instance | Adapter Contract Mapping

Attribute Sources & User Lookup | Adapter Contract Fulfillment | Issuance Criteria | Summary

PingFederate can evaluate various criteria to determine whether users are authorized to access SP resources. Use this optional screen to configure the criteria for use with this conditional authorization.

Source	Attribute Name	Condition	Value	Error Result	Action
- SELECT -	- SELECT -	- SELECT -			Add

Cancel Previous Next Done

Haga clic en Next (Siguiete).

Summary

Copyright © 2003-2016  
Ping Identity Corporation  
All rights reserved  
Version 8.2.2.0

10.78.93.148:389

**LDAP Directory Search**

Base DN: cn=users,dc=cisco,dc=com

Search scope: SUBTREE\_SCOPE

Attribute: Subject DN

Attribute: givenName

Attribute: mail

Attribute: sAMAccountName

Attribute: sn

Attribute: userPrincipalName

Attribute: whenChanged

**LDAP Filter**

Filter: sAMAccountName=\${username}

**Adapter Contract Fulfillment**

uid: sAMAccountName (LDAP)

firstname: givenName (LDAP)

updateTimestamp: whenChanged (LDAP)

user\_principal: userPrincipalName (LDAP)

email: mail (LDAP)

lastname: sn (LDAP)

username: sAMAccountName (LDAP)

**Issuance Criteria**

Criterion: (None)

Cancel Previous Done

Compruebe los parámetros y haga clic en Finalizado.

## Conexiones SP

### Crear nuevas conexiones SP

#### Tipo de conexión

License Warning: Approaching expiration date

**SP Connection**

Connection Type | **Connection Options** | Import Metadata | General Info | Browser SSO | Credentials | Activation & Summary

Select the type of connection needed for this SP: Browser SSO Profiles (for Browser SSO), WS-Trust STS (for access to identity-enabled Web Services), Outbound Provisioning (for provisioning users/groups to an SP) or all.

CONNECTION TEMPLATE: No Template

BROWSER SSO PROFILES | PROTOCOL: SAML 2.0

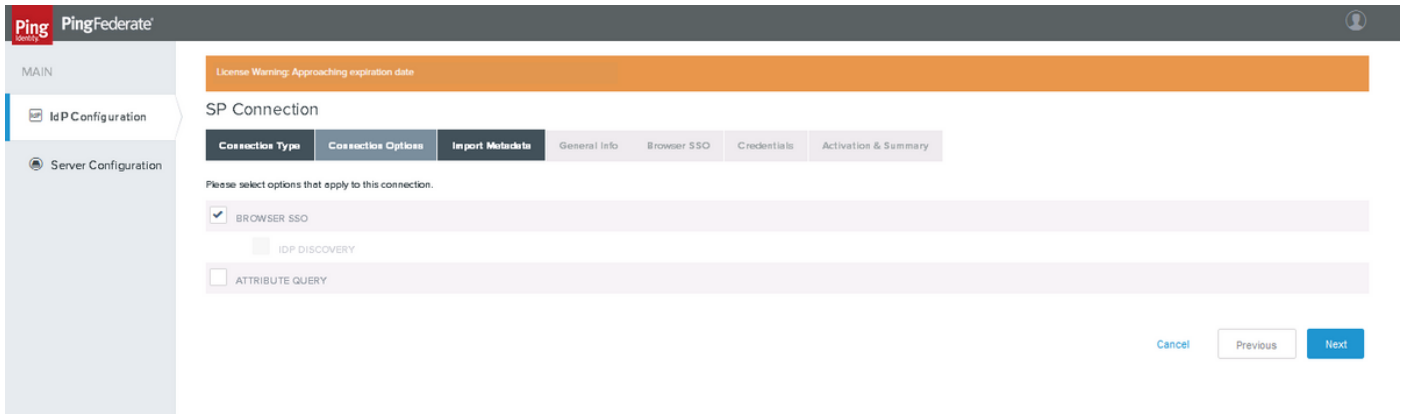
WS-TRUST STS

OUTBOUND PROVISIONING

Cancel Next

Haga clic en Next (Siguiente).

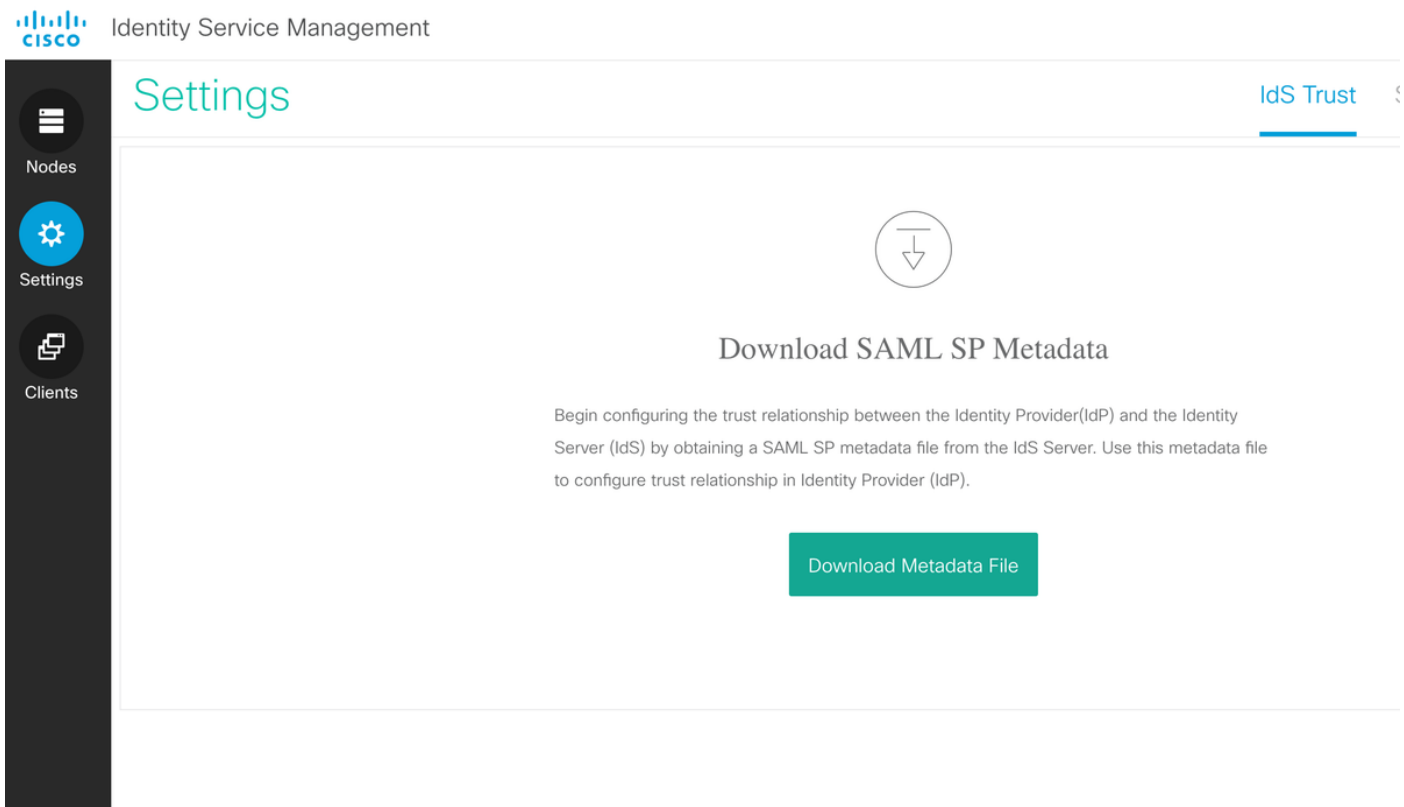
#### Opciones de conexión



Haga clic en Next (Siguiente)

Importar metadatos

Descargue el archivo xml de metadatos del proveedor de servicios desde Cisco Identity Service Admin > Settings > IdS Trust > Download Metadata.



Cargue el archivo xml de metadatos del proveedor de servicios en PingFederate.

Ping Federate

License Warning: Approaching expiration date

### SP Connection

Connection Type | Connection Options | **Import Metadata** | General Info | Browser SSO | Credentials | Activation & Summary

To populate many connection settings automatically, you can upload the partner's metadata file, or specify a URL where PingFederate can download it. To periodically reload the connection settings from the URL, select Enable Automatic Reloading.

METADATA  NONE  FILE  URL

sp.xml

Elija el archivo xml descargado y haga clic en Next .

Resumen de metadatos

Ping Federate

License Warning: Approaching expiration date

### SP Connection

Connection Type | Connection Options | Import Metadata | **Metadata Summary** | General Info | Browser SSO | Credentials | Activation & Summary

Use the information below to evaluate the authenticity of the imported metadata.

Entity Id	UCCX-SA1.cisco.com
Metadata Signature Status	unsigned

Haga clic en Next (Siguiente)

Información general

Ping Federate

### SP Connection

Connection Type | Connection Options | Import Metadata | Metadata Summary | **General Info** | Browser SSO | Credentials | Activation & Summary

This information identifies your partner's unique connection identifier (Connection ID). Connection Name represents the plain-language identifier for this connection. Optionally, you can specify multiple virtual server IDs for your own server to use when communicating with this partner. If set, these virtual server IDs will be used in place of the unique protocol identifier configured for your server in Server Settings. The Base URL may be used to simplify configuration of partner endpoints.

PARTNER'S ENTITY ID (CONNECTION ID)

CONNECTION NAME

VIRTUAL SERVER IDS

BASE URL

COMPANY

CONTACT NAME

CONTACT NUMBER

CONTACT EMAIL

APPLICATION NAME

APPLICATION ICON URL

LOGGING MODE  NONE  STANDARD  ENHANCED  FULL

Copyright © 2003-2018 Ping Identity Corporation. All rights reserved. Version 8.2.2.0

Haga clic en Next (Siguiente)

## SSO del navegador

The screenshot shows the PingFederate web interface. At the top, there is a 'License Warning: Approaching expiration date' banner. Below it, the 'SP Connection' section is active, with a sub-tab for 'Browser SSO'. A navigation bar includes 'Connection Type', 'Connection Options', 'Import Metadata', 'Metadata Summary', 'General Info', 'Browser SSO', 'Credentials', and 'Activation & Summary'. The main content area contains a description: 'This task provides connection-endpoint and other configuration information enabling secure browser-based SSO, to resources at your partner's site. Click the button below to create or revise this configuration.' Below this is a 'BROWSER SSO CONFIGURATION' section with a 'Configure Browser SSO' button. At the bottom right, there are 'Cancel', 'Save Draft', 'Previous', and 'Next' buttons.

Haga clic en Configure Browser SSO

Perfiles de lenguaje de marcado de aserción de seguridad (SAML)

The screenshot shows the PingFederate web interface. At the top, there is a 'License Warning: Approaching expiration date' banner. Below it, the 'SP Connection | Browser SSO' section is active, with a sub-tab for 'SAML Profiles'. A navigation bar includes 'SAML Profiles', 'Assertion Lifetime', 'Assertion Creation', 'Protocol Settings', and 'Summary'. The main content area contains a description: 'A SAML Profile defines what kind of messages may be exchanged between an Identity Provider and a Service Provider, and how the messages are transported (bindings). As an IdP, you configure this information for your SP connection.' Below this are two sections: 'Single Sign-On (SSO) Profiles' and 'Single Logout (SLO) Profiles'. Under 'Single Sign-On (SSO) Profiles', there are two checked checkboxes: 'IDP-INITIATED SSO' and 'SP-INITIATED SSO'. Under 'Single Logout (SLO) Profiles', there are two unchecked checkboxes: 'IDP-INITIATED SLO' and 'SP-INITIATED SLO'. At the bottom right, there are 'Cancel', 'Save Draft', and 'Next' buttons.

Haga clic en Next (Siguiente)

Nota: Cisco Identity Service (IdS) no admite Single Logout (SLO) en la versión 11.6 y no está seleccionado.

Vida útil de aserción

The screenshot shows the PingFederate web interface. At the top, there is a 'License Warning: Approaching expiration date' banner. Below it, the 'SP Connection | Browser SSO' section is active, with a sub-tab for 'Assertion Creation'. A navigation bar includes 'SAML Profiles', 'Assertion Lifetime', 'Assertion Creation', 'Protocol Settings', and 'Summary'. The main content area contains a description: 'When an assertion is issued to the SP, there is a timeframe of validity before and after issuance. Please specify these parameters below.' Below this are two input fields: 'MINUTES BEFORE' with a value of '5' and 'MINUTES AFTER' with a value of '5'. At the bottom right, there are 'Cancel', 'Previous', 'Next', 'Done', and 'Save' buttons.

Haga clic en Next (Siguiete)

Creación de aserción

The screenshot shows the 'Assertion Creation' step in the PingFederate configuration interface. The breadcrumb trail is 'SP Connection | Browser SSO'. The 'Assertion Creation' tab is selected. The page contains a table for 'Assertion Configuration' with the following data:

Assertion Configuration	
IDENTITY MAPPING	Standard
ATTRIBUTE CONTRACT	SAML_SUBJECT, email, firstname, lastname, uid, updatetimestamp
ADAPTER INSTANCES	1
AUTHENTICATION POLICY MAPPINGS	0

Below the table is a button labeled 'Configure Assertion Creation' which is highlighted with a red box. At the bottom right, there are navigation buttons: 'Cancel', 'Previous', 'Next', 'Done', and 'Save'.

Haga clic en Configurar creación de aserción

Asignación de identidad

The screenshot shows the 'Identity Mapping' step in the PingFederate configuration interface. The breadcrumb trail is 'SP Connection | Browser SSO | Assertion Creation'. The 'Identity Mapping' tab is selected. The page contains a list of radio buttons for selecting the name identifier type:

- STANDARD: Send the SP a known attribute value as the name identifier. The SP will often use account mapping to identify the user locally.
- PSEUDONYM: Send the SP a unique, opaque name identifier that preserves user privacy. The identifier cannot be traced back to the user's identity at this IdP and may be used by the SP to make a persistent association between the user and a specific local account. The SP will often use account linking to identify the user locally.
  - INCLUDE ATTRIBUTES IN ADDITION TO THE PSEUDONYM.
- TRANSIENT: Send the SP an opaque, temporary value as the name identifier.
  - INCLUDE ATTRIBUTES IN ADDITION TO THE TRANSIENT IDENTIFIER.

At the bottom right, there are navigation buttons: 'Cancel', 'Next', 'Done', and 'Save'.

Haga clic en Next (Siguiete)

Contrato de atributo

← → ↻ ⚠ Not Secure https://pingserver.cisco.com:9999/pingfederate/app ☆ 🗄 🌐

**Ping** PingFederate

MAIN

- IdP Configuration
- Server Configuration

License Warning: Approaching expiration date

SP Connection | Browser SSO | Assertion Creation

Identity Mapping | Attribute Contract | Authentication Source Mapping | Summary

An Attribute Contract is a set of user attributes that this server will send in the assertion.

Attribute Contract Subject Name Format

SAML\_SUBJECT urn:oasis:names:tc:SAML:2.0:nameid-format:transient

Extend the Contract	Attribute Name Format	Action
SAML_AUTHN_CTX	urn:oasis:names:tc:SAML:2.0:attrname-format:basic	Edit   Delete
SAML_NAME_FORMAT	urn:oasis:names:tc:SAML:2.0:attrname-format:basic	Edit   Delete
uid	urn:oasis:names:tc:SAML:2.0:attrname-format:uri	Edit   Delete
user_principal	urn:oasis:names:tc:SAML:2.0:attrname-format:uri	Edit   Delete

urn:oasis:names:tc:SAML:2.0:attrname-format:basic Add

Cancel Previous Next Done Save

Copyright © 2003-2016 Ping Identity Corporation

Advertencia: Estos atributos son obligatorios para la interoperabilidad de Cisco Identity Service (IdS) con PingFederate.

Contrato de atributo	Propósito
SAML_SUBJECT	El filtro de búsqueda PingFederate lo utiliza para comprobar si se cumple el valor asignado
SAML_AUTHN_CTX	Se utiliza en la respuesta SAML para indicar el contenido de autenticación 'PasswordProtectedTransport'
SAML_NAME_FORMAT	Se utiliza en la respuesta SAML para indicar el formato de identificación de nombre transitorio de SAML 2.0
uid	Utilizado por Cisco IdS para identificar al usuario autenticado
user_principal	Utilizado por Cisco IdS para identificar el nombre completo (es decir, id + dominio) del usuario autenticado

El administrador puede personalizar las alternativas de formato de nombre a través del archivo de configuración custom-name-format.xml ubicado en este directorio:  
 <pf\_install>/pingfederate/server/default/data/config-store.

Para operar SSO con transient como identificador de nombre, agregue el elemento xml en la sección saml2-subject-name-format: <con:item name="urn:oasis:names:tc:SAML:2.0:nameid-format:transient">urn:oasis:names:tc:SAML:2.0:nameid-format:transient</con:item>

Haga clic en Next (Siguiente)

Asignación de origen de autenticación

License Warning: Approaching expiration date

SP Connection | Browser SSO | Assertion Creation

Identity Mapping | Attribute Contract | Authentication Source Mapping | Summary

PingFederate uses IdP adapters, partner IdPs or Authentication Policies to authenticate users to your SP. Users may be authenticated by one of several different adapters or authentication policy contracts, so map an adapter instance for each IDM system or an authentication policy contract for each policy.

Adapter Instance Name	Virtual Server IDs	Action

Authentication Policy Contract Name	Virtual Server IDs	Action

Map New Adapter Instance    Map New Authentication Policy

Cancel    Save Draft    Previous    Next

Haga clic en Asignar nueva instancia de adaptador

License Warning: Approaching expiration date

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

Adapter Instance | Mapping Method | Attribute Contract Fulfillment | Issuance Criteria | Summary

Select an IdP adapter instance that may be used to authenticate users for this partner. Attributes returned by the adapter instance you choose (the Adapter Contract) may be used to fulfill the Attribute Contract with your partner.

ADAPTER INSTANCE: HTML Form IdP Adapter

**Adapter Contract**

email

firstname

lastname

uid

updstimestamp

user\_principal

username

OVERRIDE INSTANCE SETTINGS

Manage Adapter Instances

Cancel    Save Draft    Next

Asigne el adaptador de IdP de formulario HTML creado anteriormente. Haga clic en Next (Siguiente)

Método de asignación

PingFederate

License Warning: Approaching expiration date

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

Adapter Instance | Mapping Method | **Attribute Contract Fulfillment** | Issuance Criteria | Summary

You can choose to fulfill the Attribute Contract with your partner using either the values provided by the "HTML Form IdP Adapter" adapter, or you can use these values plus additional attributes retrieved from local data stores.

**Adapter Contract**

emsi

firstname

lastname

uid

updatestimestamp

user\_principal

username

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 SAME ASSERTION

Cancel Previous Next Done Save

Haga clic en Next (Siguiente)

Cumplimentación de contrato de atributo

← → ↻ Not Secure https://pingserver.cisco.com:9999/pingfederate/app

PingFederate

License Warning: Approaching expiration date

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

Adapter Instance | Mapping Method | **Attribute Contract Fulfillment** | Issuance Criteria | Summary

Fulfill your Attribute Contract with values from the authentication adapter or with dynamic text values.

Attribute Contract	Source	Value	Actions
SAML_AUTHN_CTX	Text	urn:oasis:names:tc:SAI	None available
SAML_NAME_FORMAT	Text	urn:oasis:names:tc:SAI	None available
SAML_SUBJECT	Adapter	username	None available
uid	Adapter	uid	None available
user_principal	Adapter	user_principal	None available

Copyright © 2003-2016 Ping Identity Corporation All rights reserved Version 8.2.2.0

Cancel Previous Next Done Save

Asegúrese de que los valores están establecidos en

Contrato de atributo	Fuente	Valor
SAML_SUBJECT	Adaptador	Nombre de usuario Nota muy importante: El valor utilizado para esta configuración debe coincidir con el utilizado en la configuración del filtro LDAP (sección#3.1.3.2. Configuración de instancias)

Contrato de atributo	Fuente	Valor
		Nota: Aquí se utiliza 'username' porque el filtro utilizado era sAMAccountName=\${username}
SAML_AUTHEN_CTX	texto	urn:oasis:names:tc:SAML:2.0:ac:classes>PasswordProtectedTransp
SAML_NAME_FORMAT	texto	urn:oasis:names:tc:SAML:2.0:nameid-format:transient
uid	Adaptador	uid
user_principal	Adaptador	user_principal

Haga clic en Next (Siguiente)

Criterios de emisión

Summary

**Ping Federate**

MAIN

- IdP Configuration
- Server Configuration

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

Adapter Instance | Mapping Method | Attribute Contract Fulfillment | Issuance Criteria | Summary

Click a heading link to edit a configuration setting.

**Adapter Instance**

Selected adapter	HTML Form IdP Adapter 1
------------------	-------------------------

**Mapping Method**

Adapter	HTML Form IdP Adapter
Mapping Method	Use only the Adapter Contract values in the mapping

**Attribute Contract Fulfillment**

uid	uid (Adapter)
SAML_AUTHN_CTX	urn:oasis:names:tc:SAML:2.0:ac:classes>PasswordProtectedTransport (Text)
user_principal	user_principal (Adapter)
SAML_SUBJECT	username (Adapter)
SAML_NAME_FORMAT	urn:oasis:names:tc:SAML:2.0:nameid-format:transient (Text)

**Issuance Criteria**

Criterion	(None)
-----------	--------

Copyright © 2003-2016 Ping Identity Corporation. All rights reserved. Version 8.2.2.0

Cancel Previous Done Save

Compruebe los parámetros y haga clic en Finalizado

Configuración de protocolo

**Ping Federate**

MAIN

- IdP Configuration
- Server Configuration

License Warning: Approaching expiration date

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 profiles. Click the button below to create or revise this configuration.

**Protocol Settings**

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

Configure Protocol Settings

Cancel Previous Next Done Save

Haga clic en Configure Protocol Settings

URL de servicio de consumidor de aserción

License Warning: Approaching expiration date

SP Connection | Browser SSO | Protocol Settings

Assertion Consumer Service URL | Allowable SAML Bindings | **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 bindings. Please provide the possible assertion consumer URLs below and select one to be the default.

Default	Index	Binding	Endpoint URL	Action
<input type="checkbox"/>	0	POST	/ids/sem/respone	<a href="#">Edit</a>   <a href="#">Delete</a>
<input type="checkbox"/>	<input type="text"/>	- SELECT -	<input type="text"/>	<input type="button" value="Add"/>

Cancel Next Done Save

Agregue el extremo SSO de enlace POST. Haga clic en Next (Siguiete)

Enlaces SAML permitidos

License Warning: Approaching expiration date

SP Connection | Browser SSO | Protocol Settings

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

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

ARTIFACT

POST

REDIRECT

SOAP

Cancel Previous Next Done Save

Haga clic en Next (Siguiete)

Política de firmas

License Warning: Approaching expiration date

SP Connection | Browser SSO | Protocol Settings

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

Additional guarantees of authenticity may be agreed upon between you and your partner. For SP-initiated SSO, you can choose to require signed authentication requests sent via the POST or redirect bindings. You can also 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 REDIRECT BINDINGS

ALWAYS SIGN THE SAML ASSERTION

Cancel Previous Next Done Save

Nota: Cisco IdS garantiza que el mensaje SAML esté 'firmado' y, por lo tanto, no seleccione 'FIRMAR SIEMPRE LA AFIRMACIÓN SAML'. Esto se debe a que PingFederate firmaría 'aserción SAML' o 'respuesta SAML', pero no ambas.

Haga clic en Next (Siguiete)

## Política de cifrado

The screenshot shows the 'Encryption Policy' configuration page in PingFederate. The page title is 'SP Connection | Browser SSO | Protocol Settings'. There are five tabs: 'Assertion Consumer Service URL', 'Allowable SAML Bindings', 'Signature Policy', 'Encryption Policy', and 'Summary'. The 'Encryption Policy' tab is active. Below the tabs, there is a warning: 'License Warning: Approaching expiration date'. The main content area has the heading 'Additional guarantees of privacy may be used between you and your partner. Specify an encryption policy for the exchange of SAML messages.' There are three radio button options: 'NONE' (selected), 'THE ENTIRE ASSERTION', and 'ONE OR MORE ATTRIBUTES'. Under 'ONE OR MORE ATTRIBUTES', there are five checkboxes: 'SAML\_SUBJECT', 'SAML\_NAME\_FORMAT', 'UID', and 'USER\_PRINCIPAL'. At the bottom right, there are buttons for 'Cancel', 'Previous', 'Next', 'Done', and 'Save'.

Nota: Cisco IdS no admite el flujo SAML cifrado y, por lo tanto, elija 'NONE' para la configuración 'Encryption Policy'.

Haga clic en Next (Siguiente)

Summary

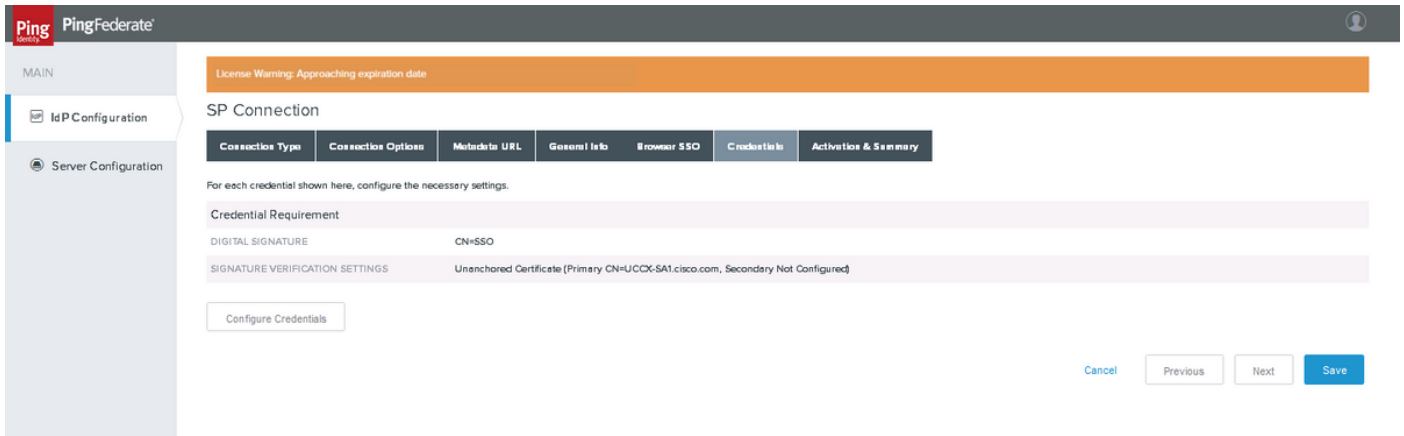
The screenshot shows the 'Summary' configuration page in PingFederate. The page title is 'SP Connection | Browser SSO | Protocol Settings'. There are five tabs: 'Assertion Consumer Service URL', 'Allowable SAML Bindings', 'Signature Policy', 'Encryption Policy', and 'Summary'. The 'Summary' tab is active. Below the tabs, there is a warning: 'License Warning: Approaching expiration date'. The main content area has the heading 'Summary information for your Protocol Settings configuration. Click a heading link to edit a configuration setting.' Below this, there is a 'Protocol Settings' section with a table of configuration items:

Protocol Settings	
<b>Assertion Consumer Service URL</b>	
Endpoint	URL: /ids/saml/response (POST)
<b>Allowable SAML Bindings</b>	
Artifact	false
POST	true
Redirect	true
SOAP	false
<b>Signature Policy</b>	
Require digitally signed AuthN requests	true
Always sign the SAML Assertion	false
<b>Encryption Policy</b>	
Status	Inactive

At the bottom right, there are buttons for 'Cancel', 'Previous', 'Done', and 'Save'.

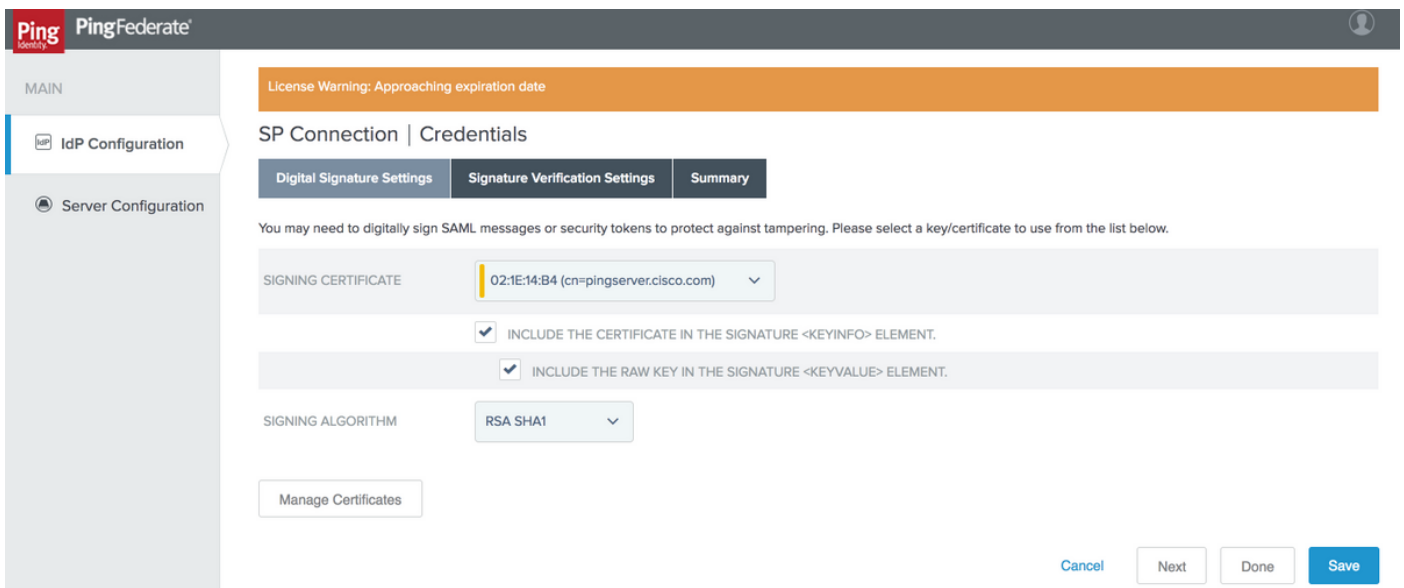
Compruebe los parámetros y haga clic en Finalizado

Credenciales



Haga clic en Configurar credenciales

Configuración de firma digital



Seleccione CERTIFICADO DE FIRMA creado anteriormente. Si no, puede hacer clic en Administrar certificados para crear un certificado.

Nota: Cisco IdS no es compatible con RSA SHA256 para la firma de respuesta SAML y, por lo tanto, se utiliza 'RSA SHA1'.

Haga clic en Next (Siguiente)

Configuración de verificación de firma

Haga clic en Administrar configuración de verificación de firma

Modelo de Confianza

Haga clic en Next (Siguiete)

Certificado de verificación de firma

Haga clic en Administrar certificados para importar certificados de SP.

License Warning: Approaching expiration date

SP Connection | Credentials | Signature Verification | Certificate Management

Manage Digital Verification Certificates

Use this screen to manage the certificates PingFederate needs to verify digital signatures from connection partners or other sources. These certificates may also be used for encryption.

Serial	Subject DN	Expires	Key Details	Status	Active	Action
2A785D5B	CN=UCCX-SA1.cisco.com	Sun Nov 24 17:03:42 IST 2019	RSA 2048	Valid	<input checked="" type="checkbox"/>	<a href="#">Activate</a> - Certificate already active <a href="#">Export</a> <a href="#">Delete</a> - Certificate in use

Import

Cancel Done

Haga clic en Importar para importar un certificado.

Summary

License Warning: Approaching expiration date

SP Connection | Credentials | Signature Verification

Trust Model Signature Verification Certificate Summary

Summary information for your Signature Verification configuration. Click a heading link to edit a configuration setting.

Signature Verification

**Trust Model**

Trust Model Unanchored

**Signature Verification Certificate**

Selected Certificate CN=UCCX-SA1.cisco.com

Cancel Previous Done Save

Haga clic en Done (Listo)

Summary

License Warning: Approaching expiration date

SP Connection | Credentials

Digital Signature Settings Signature Verification Settings Summary

Summary information for your Credentials configuration. Click a heading link to edit a configuration setting.

Credentials

**Digital Signature Settings**

Selected Certificate CN=SSO, OU=CBABU, O=CISCO, L=Bengaluru, ST=Karnataka, C=IN

Include Certificate in KeyInfo true

Include Raw Key in KeyValue true

Selected Signing Algorithm RSA SHA256

**Signature Verification**

**Trust Model**

Trust Model Unanchored

**Signature Verification Certificate**

Selected Certificate CN=UCCX-SA1.cisco.com

Cancel Previous Done Save

Verifique el resumen y haga clic en Finalizado

Activación y resumen

**Ping Identity PingFederate**

MAIN

- IdP Configuration
- Server Configuration

### SP Connection

Connection Type	Connection Options	Metadata URL	General Info	Browser SSO	Credentials	Activation & Summary
-----------------	--------------------	--------------	--------------	-------------	-------------	----------------------

Summary information for your SP connection. Click a heading in a section to edit a particular configuration setting.

Connection Status:  ACTIVE  INACTIVE

SSO Application Endpoint: <https://pingserver.cisco.com:9031/idp/startSSO.ping?PartnerSpId=UCCX-SA1.cisco.com>

#### Summary

##### SP Connection

##### Connection Type

Connection Role	SP
Browser SSO Profiles	true
Protocol	SAML 2.0
Connection Template	No Template
WS-Trust STS	false
Outbound Provisioning	false

##### Connection Options

Browser SSO	true
IdP Discovery	false
Attribute Query	false

Copyright © 2003-2016 Ping Identity Corporation

**Ping Identity PingFederate**

MAIN

- IdP Configuration
- Server Configuration

### General Info

Partner's Entity ID (Connection ID)	UCCX-SA1.cisco.com
Base URL	<a href="https://UCCX-SA1.cisco.com:8553">https://UCCX-SA1.cisco.com:8553</a>

### Browser SSO

#### SAML Profiles

IdP-Initiated SSO	true
IdP-Initiated SLO	false
SP-Initiated SSO	true
SP-Initiated SLO	false

#### Assertion Lifetime

Valid Minutes Before	5
Valid Minutes After	5

### Assertion Creation

#### Identity Mapping

Enable Transient Identifier	true
Include additional attributes	false

#### Authentication Source Mapping

Adapter instance name	HTML Form IdP Adapter 1
-----------------------	-------------------------

#### Adapter Instance

Selected adapter	HTML Form IdP Adapter 1
------------------	-------------------------

Copyright © 2003-2016 Ping Identity Corporation  
All rights reserved  
Version 8.2.2.0

MAIN

- IdP Configuration
- Server Configuration

Copyright © 2003-2016

**Mapping Method**

Adapter	HTML Form IdP Adapter
Mapping Method	Use only the Adapter Contract values in the mapping

**Attribute Contract Fulfillment**

**Issuance Criteria**

Criterion	(None)
-----------	--------

**Protocol Settings**

**Assertion Consumer Service URL**

Endpoint	URL: /ids/saml/response (POST)
----------	--------------------------------

**Allowable SAML Bindings**

Artifact	false
POST	true
Redirect	true
SOAP	false

**Signature Policy**

Require digitally signed AuthN requests	true
Always sign the SAML Assertion	false

**Encryption Policy**

Status	Inactive
--------	----------

**Credentials**

**Digital Signature Settings**

Selected Certificate	CN=pingserver.cisco.com, OU=cisco, O=ccbu, L=bangalore, ST=Karnataka, C=IN
Include Certificate in KeyInfo	true
Include Raw Key in KeyValue	true
Selected Signing Algorithm	RSA SHA1

**Signature Verification**

**Trust Model**

Trust Model	Unanchored
-------------	------------

**Signature Verification Certificate**

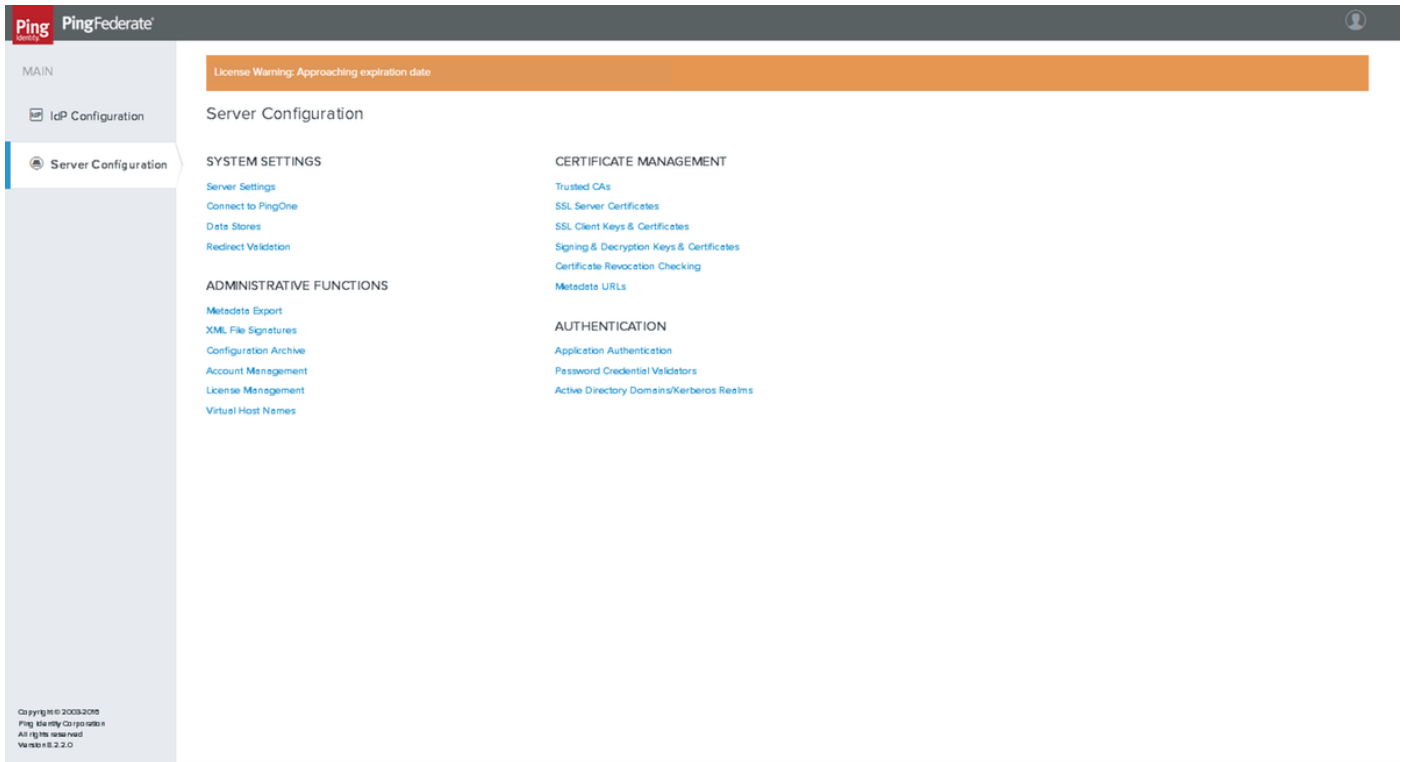
Selected Certificate	CN=UCCX-SA1.cisco.com
----------------------	-----------------------

Cancel Previous Save

Verifique el resumen y haga clic en Guardar.

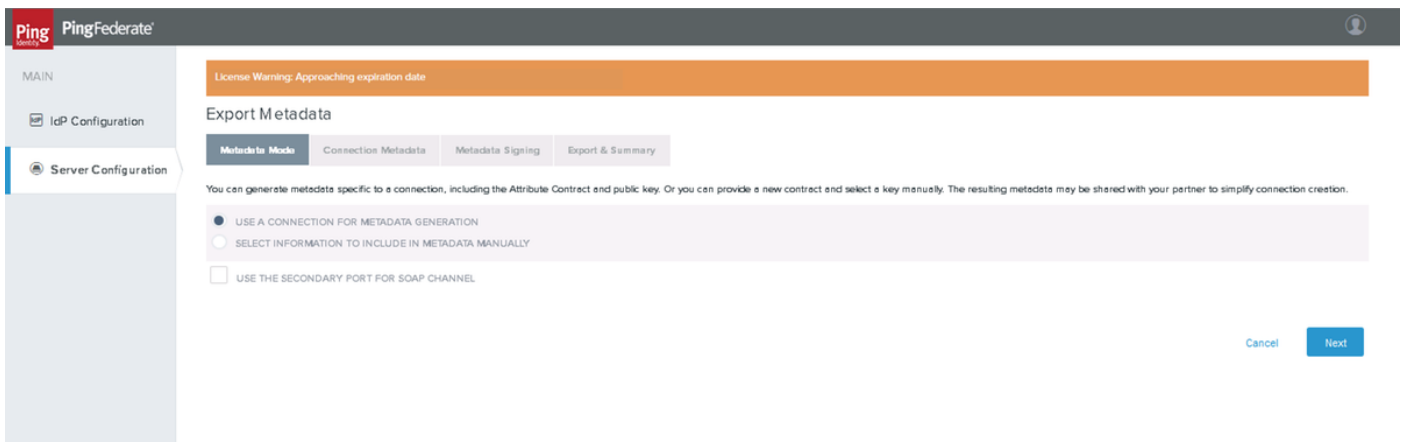
## Exportar metadatos de PingFederate

Exportación de metadatos



## Modo de metadatos

Haga clic en Configuración del servidor > FUNCIONES ADMINISTRATIVAS > Exportación de metadatos



Haga clic en Next (Siguiente)

## Metadatos de conexión

## Export Metadata

Metadata Mode   Connection Metadata   Metadata Signing   Export & Summary

Select a connection that contains the Attribute Contract and Digital Signature Key you wish to include in the metadata.

UCCX-SA1.cisco.com

Attribute Contract

SAML\_AUTHN\_CTX

SAML\_NAME\_FORMAT

uid

user\_principal

DIGITAL SIGNATURE KEY  
CN=pingserver.cisco.com, OU=cisco, O=ccbu, L=bangalore, ST=Karnataka, C=IN

XML ENCRYPTION KEY  
No XML key available for this connection

Cancel   Previous   Next

Seleccione la conexión SP que ha creado y haga clic en Next (Siguiente)

## Firma de metadatos

PingFederate

License Warning: Approaching expiration date

Export Metadata

Metadata Mode   Connection Metadata   Metadata Signing   Export & Summary

From this list of certificates, choose which one to use for signing the selected file.

SIGNING CERTIFICATE   01584CA89AF6 (cn=SSO)

INCLUDE THIS CERTIFICATE'S PUBLIC KEY CERTIFICATE IN THE <KEYINFO> ELEMENT.

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

SIGNING ALGORITHM   RSA-SHA256

Manage Certificates

Cancel   Previous   Next

Seleccione el certificado de metadatos que ha creado y el ALGORITMO DE FIRMA como RSA SHA256. Haga clic en Siguiente

## Exportar y resumir



Problema	Herramienta	Posible Causa
página de administración de IdS		
El flujo SAML falla	Rastreador SAML	<p>Compruebe si 'StatusCode' indica 'Success', es decir, <code>&lt;saml:StatusCode Value="urn:oasis:names:tc:SAML:2.0:status:Success" /&gt;</code></p> <ul style="list-style-type: none"> <li>• Si no es así, compruebe si se indica "Solicitante" o "Respondedor" <ul style="list-style-type: none"> <li>◦ 'Solicitante' significaría un problema con la solicitud SAML, es decir, Cisco IdS no ha enviado la solicitud correctamente. Verifique los registros de IdS de Cisco en la carpeta <code>/opt/cisco/ids/log/</code></li> <li>◦ 'Responder' significaría un problema con el IdP - así que verifique los registros de PingFederate</li> </ul> </li> </ul>
El flujo SAML falla	Rastreador SAML	<p>Verifique el elemento <code>&lt;saml:AuthnContextClassRef&gt;</code>; su valor debe ser <code>urn:oasis:names:tc:SAML:2.0:ac:classes&gt;PasswordProtectedTransport</code></p> <p>Si su valor está definido como <code>urn:oasis:names:tc:SAML:2.0:ac:classes:unspecified</code> -, compruebe si el contrato SAML_AUTHN_CTX está configurado y asignado correctamente.</p>
El flujo SAML falla	Rastreador SAML	<p>Verifique el elemento <code>&lt;saml:AttributeStatement&gt;</code>: debe estar presente y debe contener elementos secundarios que correspondan a 'uid' y 'user_principal'</p> <p>Si no se encuentra, compruebe la configuración de "Creación de aserción" seguida de la configuración de "Cumplimentación de contrato" para asegurarse de que los atributos de contrato se han definido y asignado correctamente</p>
El flujo SAML falla	Rastreador SAML	<p>Verifique si hay un mensaje de 'Firma no válida' en los registros de IdS de Cisco o PingFederate.</p> <p>Si se confirma, restablezca la confianza de metadatos entre IdS y PingFederate</p>
El flujo SAML falla	Rastreador SAML	<p>Verifique las condiciones de tiempo, la hora en que Cisco IdS recibió la respuesta SAML debe estar entre las horas indicadas en <code>&lt;saml:Conditions NotBefore="2016-12-18T07:24:10.191Z" NotOnOrAfter="2016-12-18T07:34:10.191"&gt;</code></p>

## Configuración adicional para SSO:

Este documento describe la configuración desde el aspecto IdP para que SSO se integre con Cisco Identity Service. Para obtener más información, consulte las guías de configuración de productos individuales:

- [UCCX](#)
- [UCCE](#)
- [PCCE](#)

## Acerca de esta traducción

Cisco ha traducido este documento combinando la traducción automática y los recursos humanos a fin de ofrecer a nuestros usuarios en todo el mundo contenido en su propio idioma.

Tenga en cuenta que incluso la mejor traducción automática podría no ser tan precisa como la proporcionada por un traductor profesional.

Cisco Systems, Inc. no asume ninguna responsabilidad por la precisión de estas traducciones y recomienda remitirse siempre al documento original escrito en inglés (insertar vínculo URL).