

# Installation und Konfiguration des PingFederate Identity Providers für Cisco Identity Service zur Aktivierung von SSO

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## Einleitung

In diesem Dokument wird die Konfiguration des PingFederate Identity Provider (IdP) zur Aktivierung von Single Sign On (SSO) beschrieben.

Cisco IDs-Bereitstellungsmodelle

Produkt	Bereitstellung
UCCX	Mitansässig
PCCE	Co-Resident mit CUIC (Cisco Unified Intelligence Center) und LD (Live-Daten)
UCCE	Gleichzeitige Implementierung mit CUIC und LD für 2k-Bereitstellungen Standalone für Bereitstellungen der Serien 4000 und 12000.

## Voraussetzungen

### Anforderungen

Cisco empfiehlt, dass Sie über Kenntnisse in folgenden Bereichen verfügen:

- Cisco Unified Contact Center Express (UCCX) Version 11.6 oder Cisco Unified Contact Center Enterprise Version 11.6 bzw. Packaged Contact Center Enterprise (PCCE) Version 11.6
- PingFederate auf Windows Server installiert

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Anmerkung: Dieses Dokument bezieht sich auf die Konfiguration in Bezug auf den Cisco Identitätsdienst (IdS) und den Identitätsanbieter (IdP). Das Dokument verweist in den Screenshots und Beispielen auf UCCX. Die Konfiguration ist jedoch in Bezug auf den Cisco Identitätsdienst (UCCX/UCCE/PCCE) und den IdP ähnlich.

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### Verwendete Komponenten

Dieses Dokument ist nicht auf bestimmte Software- und Hardware-Versionen beschränkt.

Die Informationen in diesem Dokument beziehen sich auf Geräte in einer speziell eingerichteten Testumgebung. Alle Geräte, die in diesem Dokument benutzt wurden, begannen mit einer gelöschten (Nichterfüllungs) Konfiguration. Wenn Ihr Netzwerk in Betrieb ist, stellen Sie sicher, dass Sie die möglichen Auswirkungen aller Befehle kennen.

## Install

### Systemanforderungen

Betriebssysteme	Java-Umgebung	Unterstützte Browser für Endbenutzer	Unterstützte Browser für Verwaltungskonsole	Integration von Datenspeichern (Für die Suche nach Benutzerattributen)
<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-Rechenzentrum</li> <li>• Oracle Enterprise Linux 6.5 (Red Hat-kompatibler Kernel)</li> <li>• Oracle Solaris 10</li> <li>• Red Hat Enterprise Linux ES 6.6</li> <li>• Red Hat Enterprise Linux ES 7.0</li> </ul>	<ul style="list-style-type: none"> <li>• Oracle Java SE Runtime Environment (Server JRE) 7 Update 79 (64-Bit)</li> <li>• Oracle Java SE Runtime Environment (Server JRE) 8 Update 45 (64-Bit)</li> </ul>	<ul style="list-style-type: none"> <li>• Chrom</li> <li>• Firefox</li> <li>• Internet Explorer (Version 9 und höher)</li> <li>• Safari</li> </ul>	<ul style="list-style-type: none"> <li>• Chrom</li> <li>• Firefox</li> <li>• Internet Explorer (Version 9 und höher)</li> </ul>	<ul style="list-style-type: none"> <li>• Microsoft Active Directory (2008 R2 und 2012)</li> <li>• Oracle Directory Server Enterprise Edition 11g</li> <li>• Microsoft SQL Server (Structured Query Language) (2012 und 2014)</li> <li>• Oracle-Datenbank (10g und 11g R2)</li> <li>• Oracle MySQL 5.6</li> </ul>

- |   |  |  |  |  |
|---|--|--|--|--|
| <ul style="list-style-type: none"><li>• SUSE Linux Enterprise 11 SP 3</li></ul> |  |  |  |  |
|---|--|--|--|--|

## Install

Extrahieren Sie die ZIP-Verteilungsdatei, oder verwenden Sie ein plattformspezifisches Installationsprogramm, um PingFederate zu installieren.

- Anfordern eines Lizenzschlüssels über die Ping Identity-Lizenzwebseite ([www.pingidentity.com/support-and-downloads/licensing.cfm](http://www.pingidentity.com/support-and-downloads/licensing.cfm))
- Stellen Sie sicher, dass Sie mit den entsprechenden Rechten zur Installation und Ausführung einer Anwendung am System angemeldet sind.
- Überprüfen Sie, ob die Server Java Runtime Environment (JRE) installiert ist und die Umgebungs- und PATH-Variablen korrekt festgelegt wurden.

### PingFederate mit ZIP-Verteilungsdatei installieren

Extrahieren Sie die ZIP-Verteilungsdatei in ein Installationsverzeichnis.

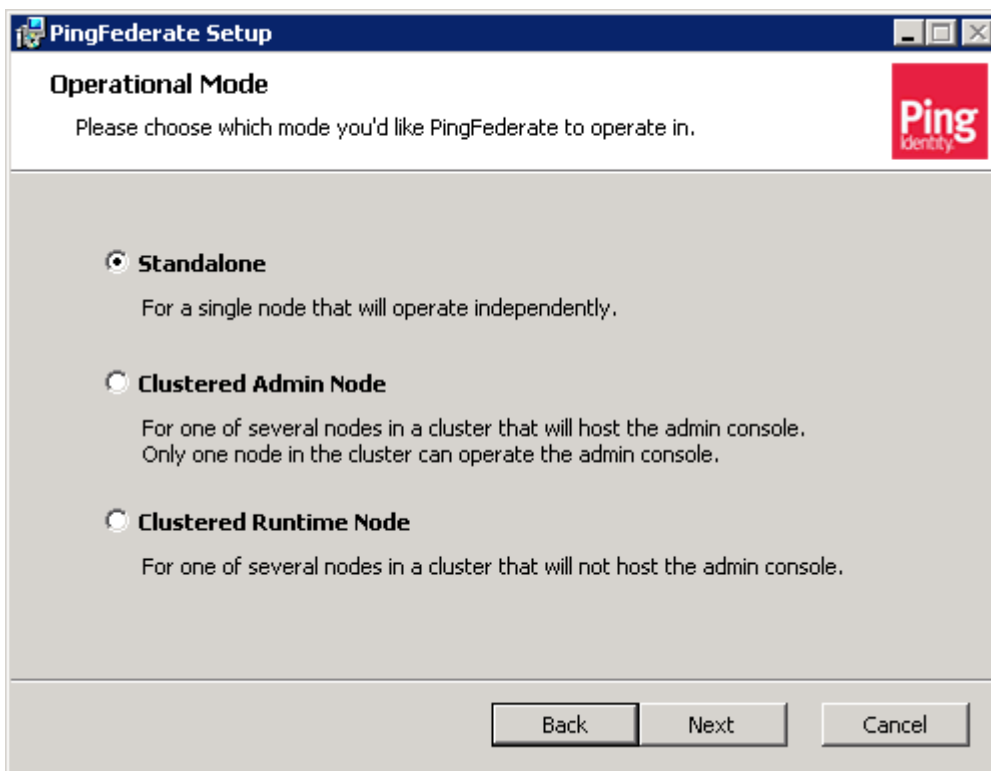
---

Warnung: Um zukünftige Probleme mit automatisierten Upgrades zu vermeiden, benennen Sie den installierten Pingfederate-Ordner nicht um. Wenn Sie mehrere Instanzen von PingFederate auf demselben Computer installieren (z. B. in bestimmten Server-Clustering-Szenarien), installieren Sie entweder jede Instanz an einem anderen Speicherort, oder benennen Sie den übergeordneten Ordner um, um eine parallele Dateistruktur am gleichen Speicherort zu installieren.

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### Installieren von PingFederate mit der EXE-Verteilungsdatei


Doppelklicken Sie auf die EXE-Datei, und befolgen Sie die Installationsschritte



**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.

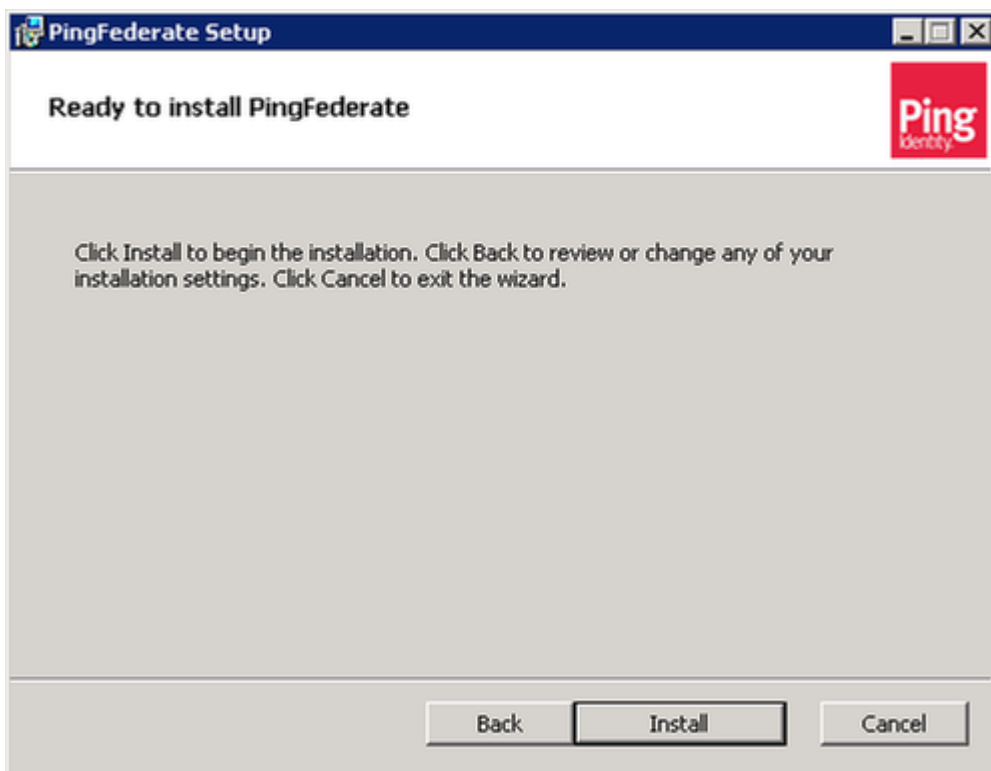
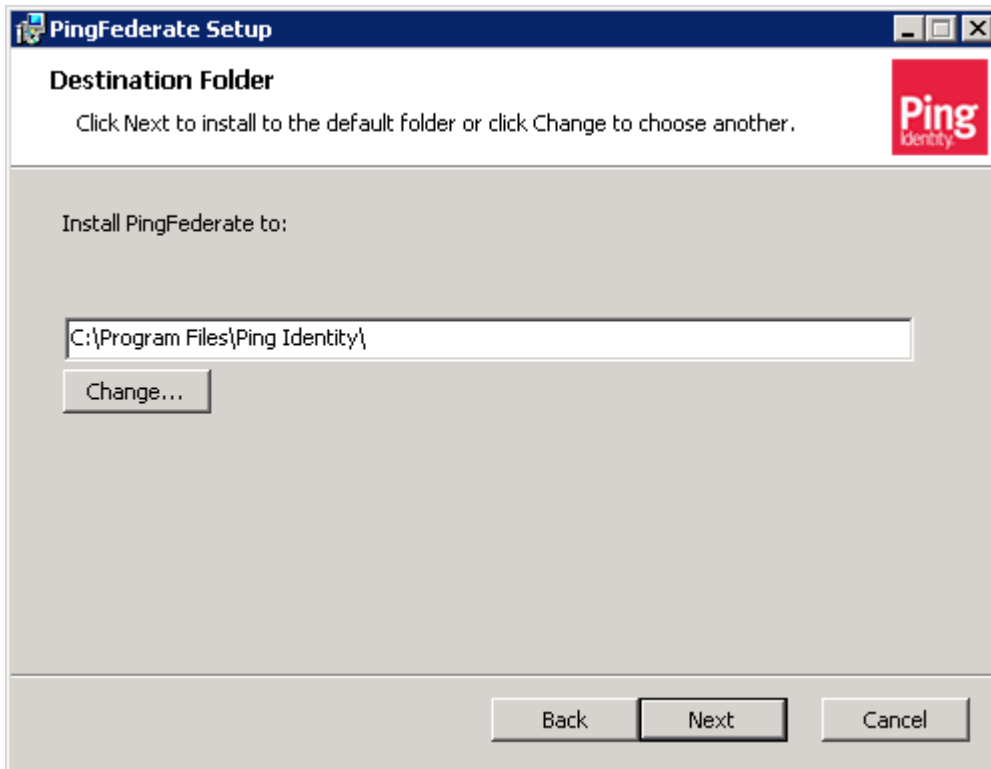


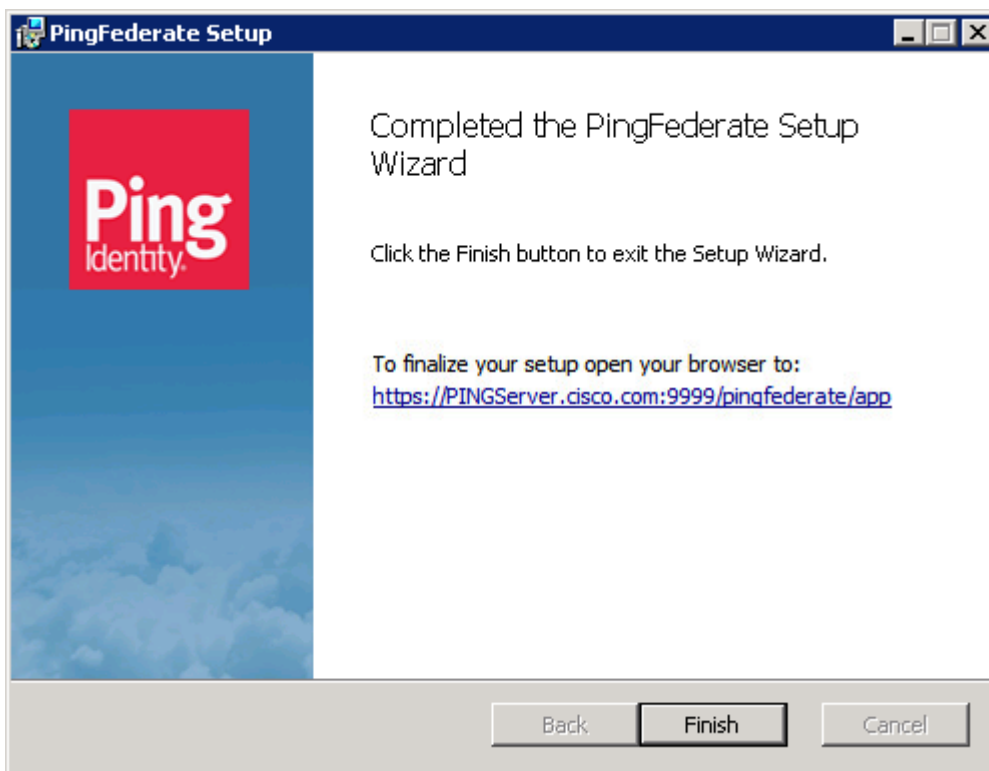
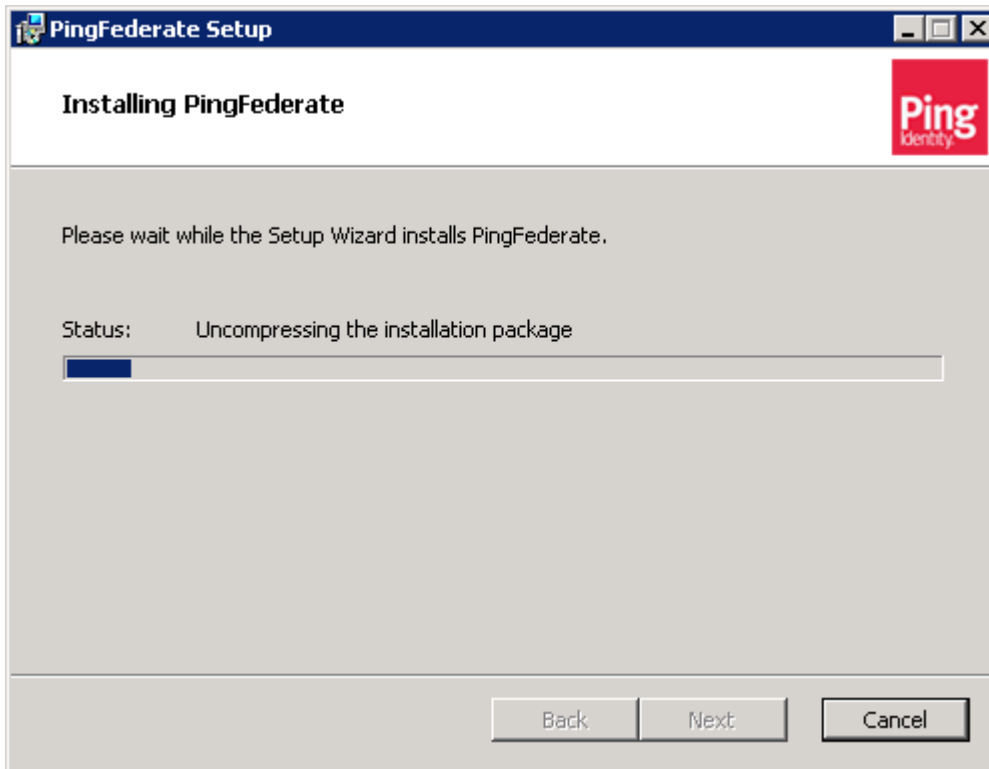
**HTTPS Port**

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.





## PingFederate zum ersten Mal starten

Wenn Sie PingFederate mit einem der plattformspezifischen Installationsprogramme installieren, wird PingFederate als Dienst konfiguriert und am Ende des Installationsvorgangs automatisch gestartet.

Wenn Sie PingFederate mit einer ZIP-Verteilungsdatei installieren, führen Sie das Skript aus, um PingFederate manuell zu starten.

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

Warten Sie, bis das Skript beendet ist - der Startvorgang wird abgeschlossen, wenn diese Meldung am Ende der Sequenz angezeigt wird:

PingFederate gestartet in <X>s:<Y>ms

## Assistent zur Ersteinrichtung

Die PingFederate-Administrationsoberfläche, die Administrationskonsole, basiert auf einem System assistentenähnlicher Kontrollbildschirme. Starten Sie die PingFederate-Verwaltungskonsole, und verwenden Sie den Assistenten zur Ersteinrichtung, um die Konfiguration der Einstellungen für den Identitätsverbund abzuschließen. Darüber hinaus können Sie PingFederate mit PingOne verbinden, um eine leistungsstarke Hybrid-Lösung vor Ort und in der Cloud bereitzustellen.

So greifen Sie auf die Administrationskonsole zu:

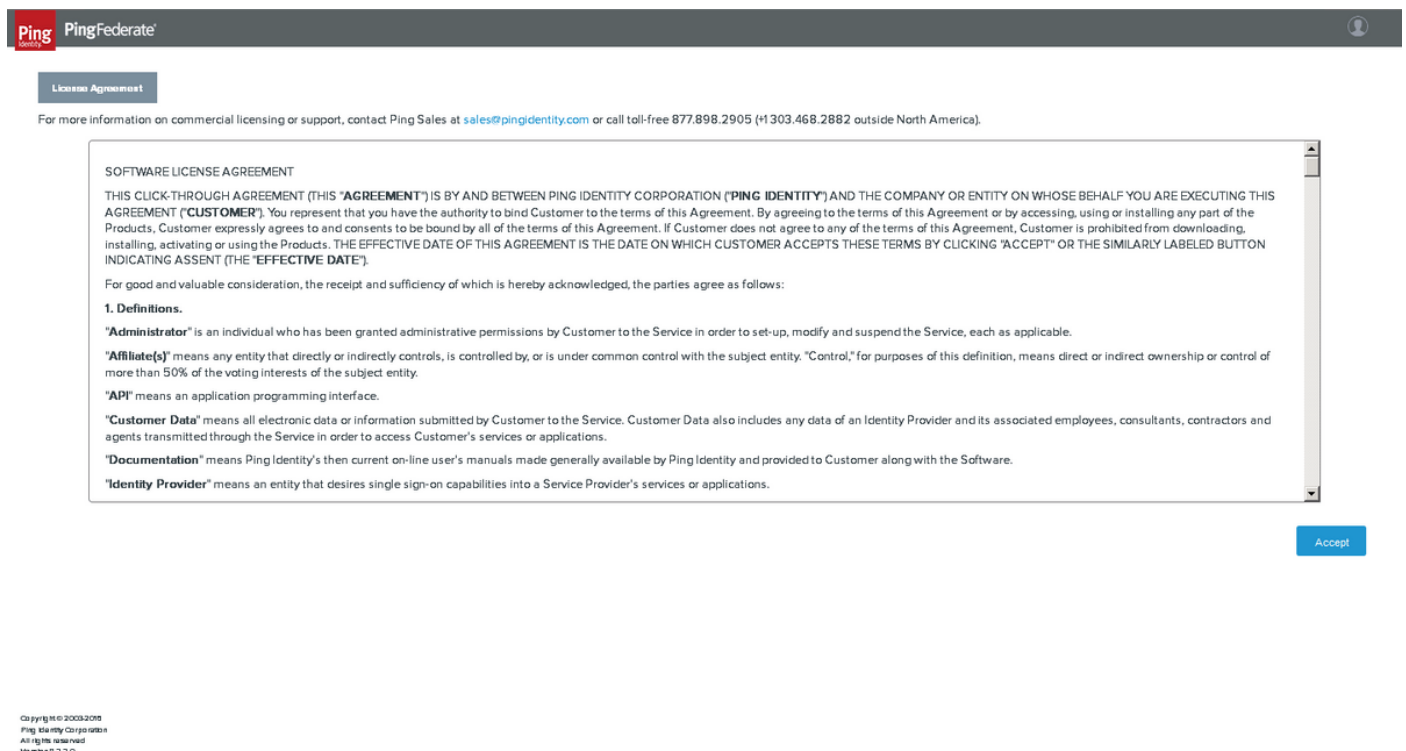
Starten Sie den Browser, und navigieren Sie zu <https://<FQHN>:9999/pingfederate/app> (wobei <FQHN> der vollqualifizierte Hostname des Servers ist, auf dem PingFederate installiert ist).

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Hinweis: Die Portnummer 9999 ist standardmäßig eingestellt. Dies kann über die PingFederate-Eigenschaften geändert werden.

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## Lizenzvereinbarung akzeptieren



**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**

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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**

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Version 9.2.2.0

## PingOne-Konto

**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

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Version 11.2.2.0

Klicken Sie auf Next (Weiter).

## Lizenz

**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

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Version 11.2.2.0

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## Grundlegende Informationen

The screenshot shows the 'Basic Information' step in the PingFederate setup wizard. The progress bar at the top includes 'PingOne Account', 'License', 'Basic Information', 'Enable Roles', 'Administrator Account', 'Confirmation', and 'Complete!'. The main text reads: 'Welcome to PingFederate. To set up your enterprise identity bridge, let's first confirm your Base URL and Entity ID.' Below this, 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. In the bottom left corner, there is a copyright notice: 'Copyright © 2008-2018 Ping Identity Corporation. All rights reserved. Version 11.2.2.0'.

BASE-URL und ENTITY-ID festlegen und auf "Weiter" klicken

## Rollen aktivieren

The screenshot shows the 'Enable Roles' step in the PingFederate setup wizard. The progress bar at the top includes 'PingOne Account', 'License', 'Basic Information', 'Enable Roles', 'Identity Provider Configuration', 'Administrator Account', 'Confirmation', and 'Complete!'. The main text reads: 'Please select the roles you expect PingFederate to play.' Below this, there is a section titled 'ROLES' with three checkboxes: 'IDENTITY PROVIDER' (checked), 'SERVICE PROVIDER' (unchecked), and 'OAUTH AUTHORIZATION SERVER' (unchecked). At the bottom right, there are 'Previous' and 'Next' buttons. In the bottom left corner, there is a copyright notice: 'Copyright © 2008-2018 Ping Identity Corporation. All rights reserved. Version 11.2.2.0'.

Wählen Sie IDENTITY PROVIDER aus, und klicken Sie auf Weiter

## Identity Provider-Konfiguration

**Ping** PingFederate

Connect

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

Connect to Active Directory

Previous Next

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Die Verbindung mit Active Directory kann später hergestellt werden. Klicken Sie auf Weiter.

## Administratorkonto

**Ping** PingFederate

Connect

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  
Administrator

PASSWORD  
••••••••

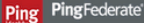
CONFIRM PASSWORD  
••••••••

Previous Next

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Legen Sie das Administratorkennwort fest, und klicken Sie auf Weiter

## Bestätigung

User icon

[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](#)

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## Bestätigen und auf Weiter klicken

## Abschließen

User icon

[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](#)

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## Klicken Sie auf Fertig

# PingFederate konfigurieren

## Serverkonfiguration

The screenshot shows the PingFederate web interface. At the top, there is a dark header with the PingFederate logo and a user profile icon. Below the header, a navigation sidebar on the left contains 'MAIN', 'IdP Configuration', and 'Server Configuration' (which is selected). The main content area is titled 'Server Configuration' and features a 'License Warning: Approaching expiration date' banner. The page is organized into three columns of links: '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), 'CERTIFICATE MANAGEMENT' (Trusted CAs, SSL Server Certificates, SSL Client Keys & Certificates, Signing & Decryption Keys & Certificates, Certificate Revocation Checking, Metadata URLs), and 'AUTHENTICATION' (Application Authentication, Password Credential Validators, Active Directory Domains/Kerberos Realms). A footer at the bottom left contains copyright information: 'Copyright © 2003-2018 Ping Identity Corporation. All rights reserved. Version 8.2.0'.

Entschlüsselungsschlüssel und -zertifikate für digitale Signierung und XML (Extensible Markup Language)

Klicken Sie auf Serverkonfiguration > Zertifikatsverwaltung > Signierung & XML-Entschlüsselungsschlüssel & Zertifikate.

The screenshot shows the 'Certificate Management' page in the PingFederate interface. It features the same navigation sidebar as the previous screenshot. The main content area has a 'License Warning: Approaching expiration date' banner and a heading 'Certificate Management'. Below the heading is a descriptive sentence: '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 displayed: 'Serial', 'Subject DN', 'Expires', 'Key Details', 'Status', and 'Action'. Below the table are two buttons: 'Create New' and 'Import'. At the bottom right of the page, there are 'Cancel' and 'Save' buttons.

Klicken Sie auf Neu erstellen.

Zertifikat erstellen

Ping Identity PingFederate

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MAIN

IdP Configuration

Server Configuration

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### 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

Cancel Next

Klicken Sie auf Next (Weiter).

Zertifikat exportieren

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

Export und Zusammenfassung

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

Export

Cancel Previous Done

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Klicken Sie auf Exportieren

Datenspeicher

Klicken Sie auf Serverkonfiguration > SYSTEMEINSTELLUNGEN > Datenspeicher.

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

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Klicken Sie auf Neuen Datenspeicher hinzufügen

## LDAP-Konfiguration

Ping Federate

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

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Wählen Sie LDAP aus, und klicken Sie auf Weiter

Ping Federate

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

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Geben Sie die Werte ein, und klicken Sie auf Weiter

Zusammenfassung

License Warning: Approaching expiration date

Manage Data Stores | Data Store

Data Store Type    LDAP Configuration    Summary

Click a heading link to edit a configuration setting.

Data Store

**Data Store Type**

Type of Data Store: LDAP

**LDAP Configuration**

Hostname(s): 10.78.93.148:389

Username: cn=Administrator,cn=users,dc=cisco,dc=com

Cancel    Previous    Done    Save

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Klicken Sie nach der Überprüfung auf Speichern.

Validierung von Kennwortanmeldeinformationen

Klicken Sie auf Server Configuration > AUTHENTICATION > Password Credential Validators.

License Warning: Approaching expiration date

Manage Credential Validator Instances

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).

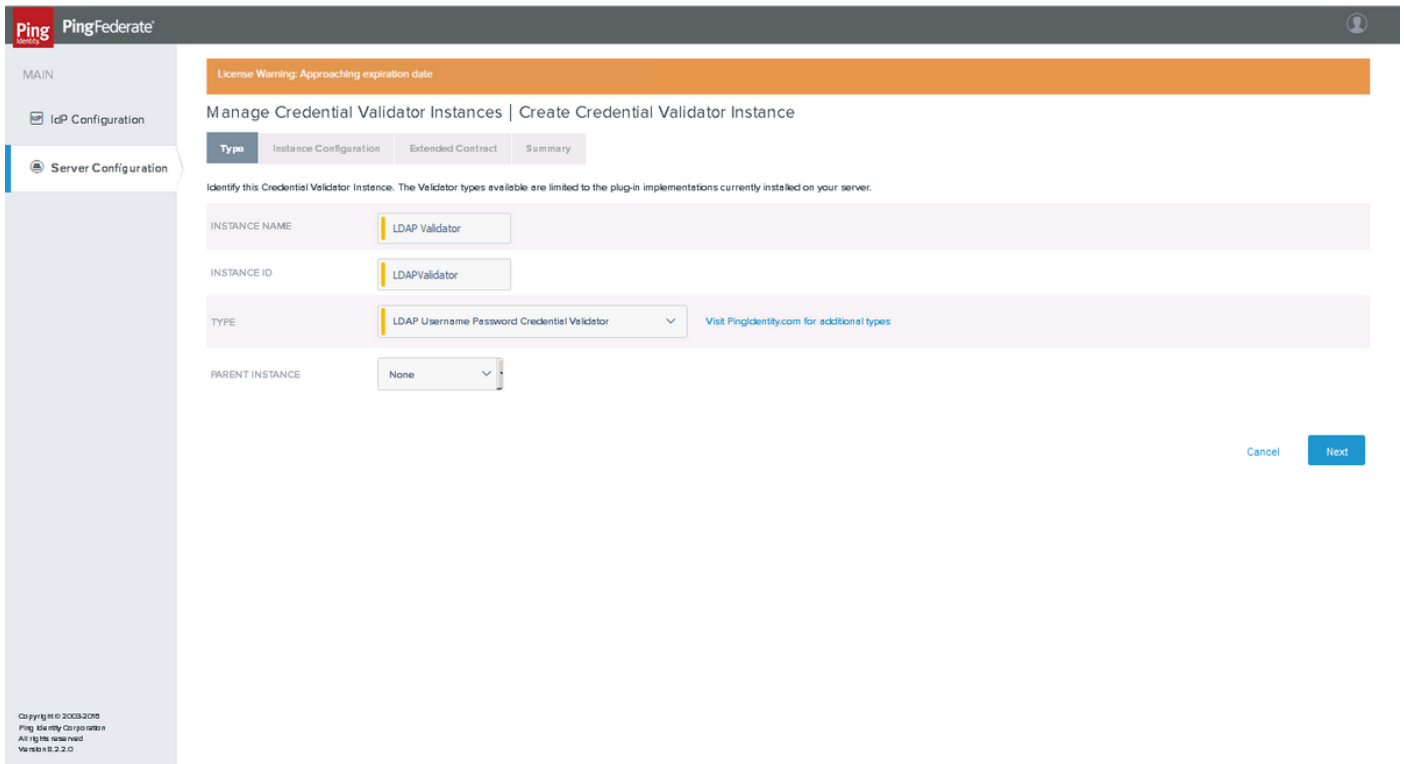
Instance Name	Instance Id	Type	Parent Name	Action
Create New Instance				

Cancel    Save

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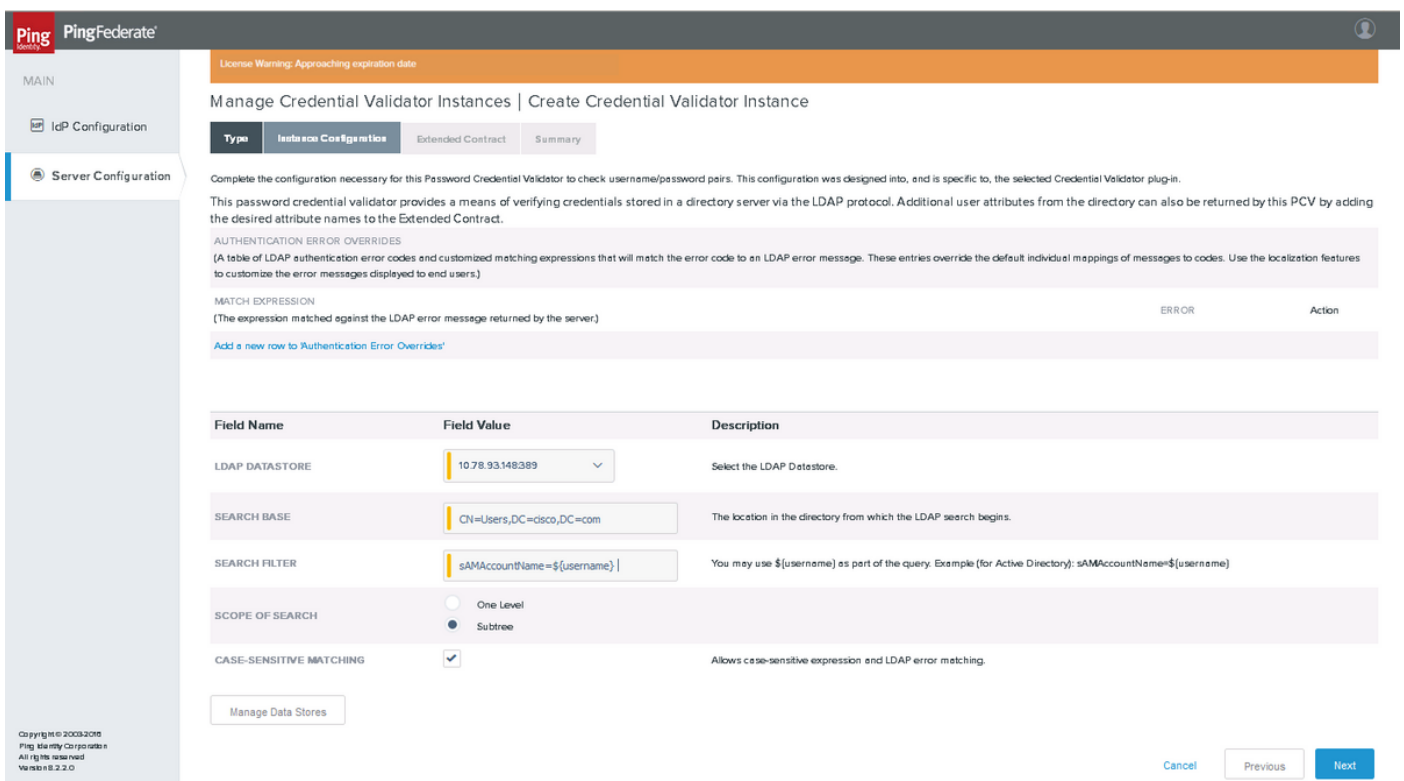
Klicken Sie auf Neue Instanz erstellen.

Typ



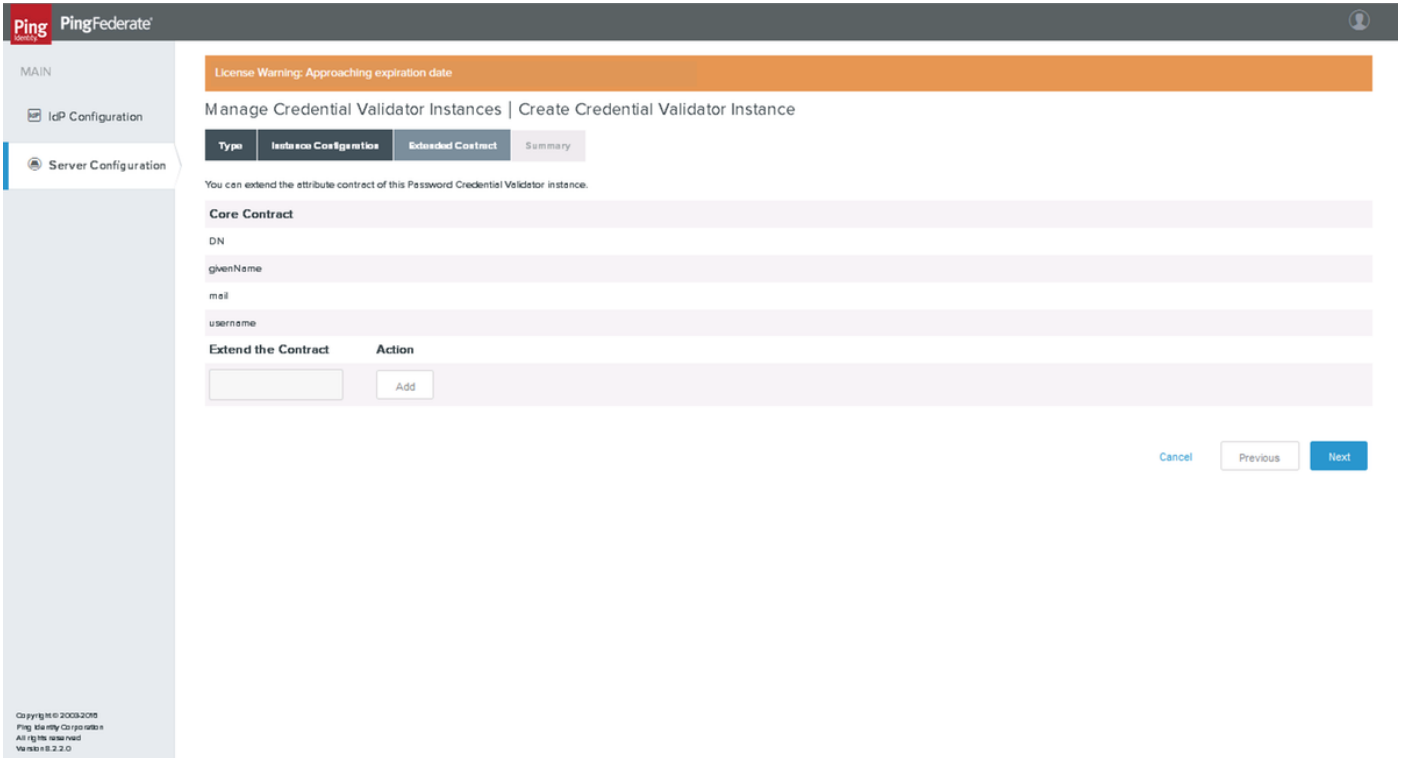
Wählen Sie als TYP den Validator für die LDAP-Anmeldeinformationen für Benutzername und Kennwort aus. Klicken Sie auf Next (Weiter).

### Instanzkonfiguration



Wählen Sie den LDAP-Datenspeicher aus, und geben Sie Suchbasis, Suchfilter und Suchbereich ein. Klicken Sie auf Next (Weiter).

## Erweiterter Vertrag



The screenshot shows the 'Extend the Contract' step in the 'Create Credential Validator Instance' wizard. It features a navigation bar with 'Type', 'Instance Configuration', 'Extended Contract', and 'Summary'. The 'Extended Contract' tab is active. Below the navigation bar, there is a text prompt: 'You can extend the attribute contract of this Password Credential Validator instance.' This is followed by three input fields for 'DN', 'givenName', and 'mail', and one for 'username'. Below these fields is a table with two columns: 'Extend the Contract' and 'Action'. The 'Action' column contains an 'Add' button. At the bottom right, there are 'Cancel', 'Previous', and 'Next' buttons. A license warning banner is visible at the top.

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**

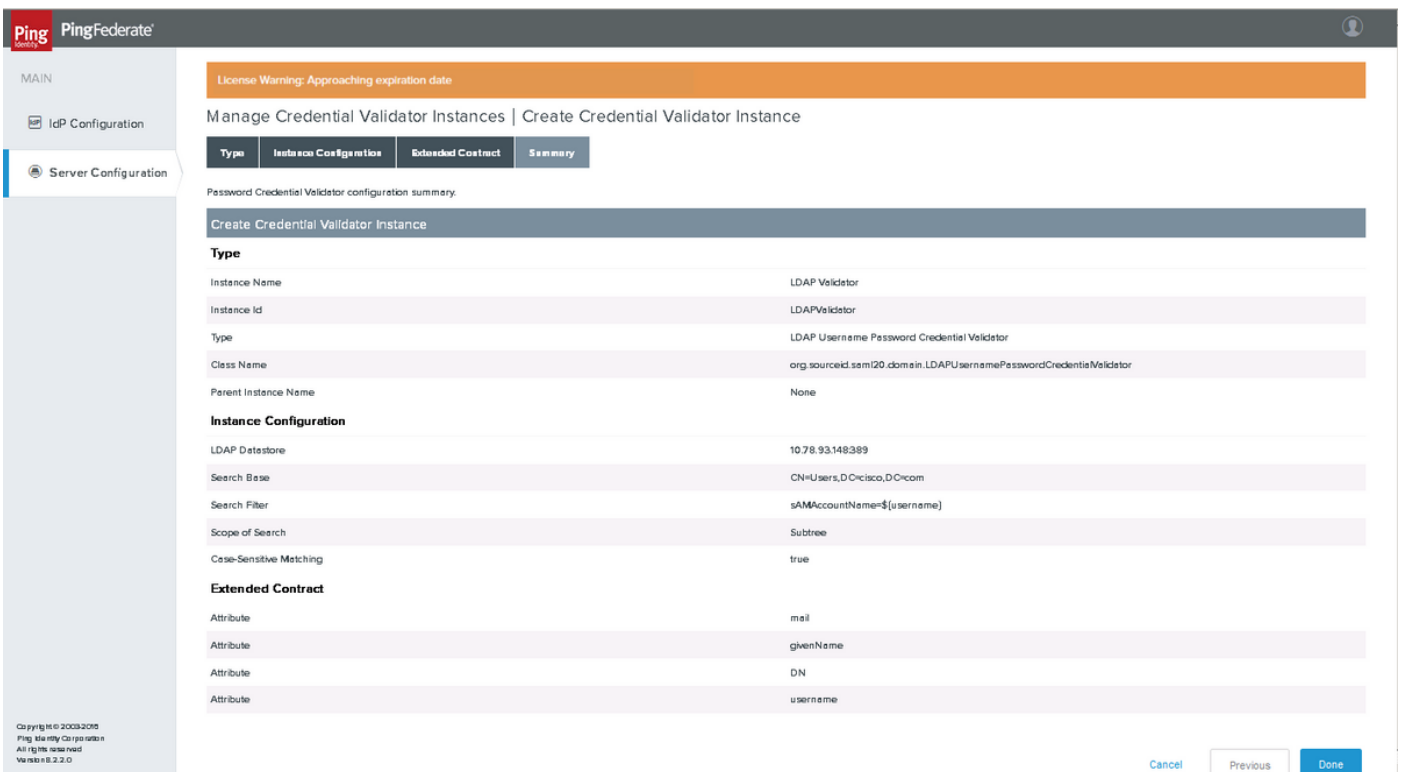
  

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Klicken Sie auf Next (Weiter).

## Zusammenfassung



The screenshot shows the 'Summary' step in the 'Create Credential Validator Instance' wizard. The 'Summary' tab is active in the navigation bar. The page displays a 'Password Credential Validator configuration summary' and a 'Create Credential Validator Instance' header. Below this, there are sections for 'Type', 'Instance Configuration', and 'Extended Contract', each with a list of key-value pairs. At the bottom right, there are 'Cancel', 'Previous', and 'Done' buttons. A license warning banner is visible at the top.

License Warning: Approaching expiration date

Manage Credential Validator Instances | Create Credential Validator Instance

Type Instance Configuration **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.sem120.domain.LDAPUsernamePasswordCredentialValidator

Parent Instance Name None

**Instance Configuration**

LDAP Dtestore 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

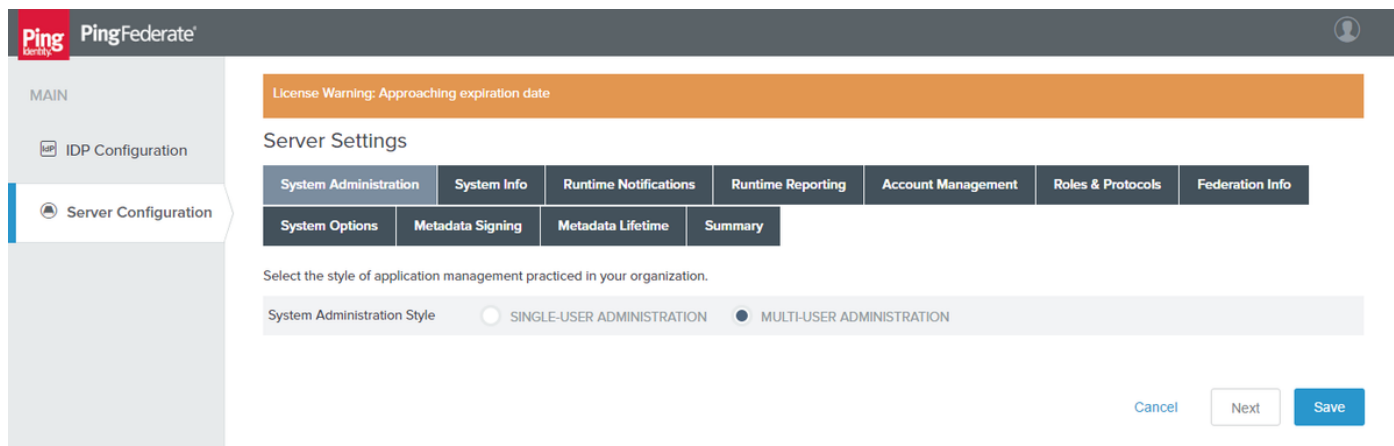
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Überprüfen Sie die Einstellungen, und klicken Sie auf Fertig.

# Servereinstellungen

## Systemverwaltung

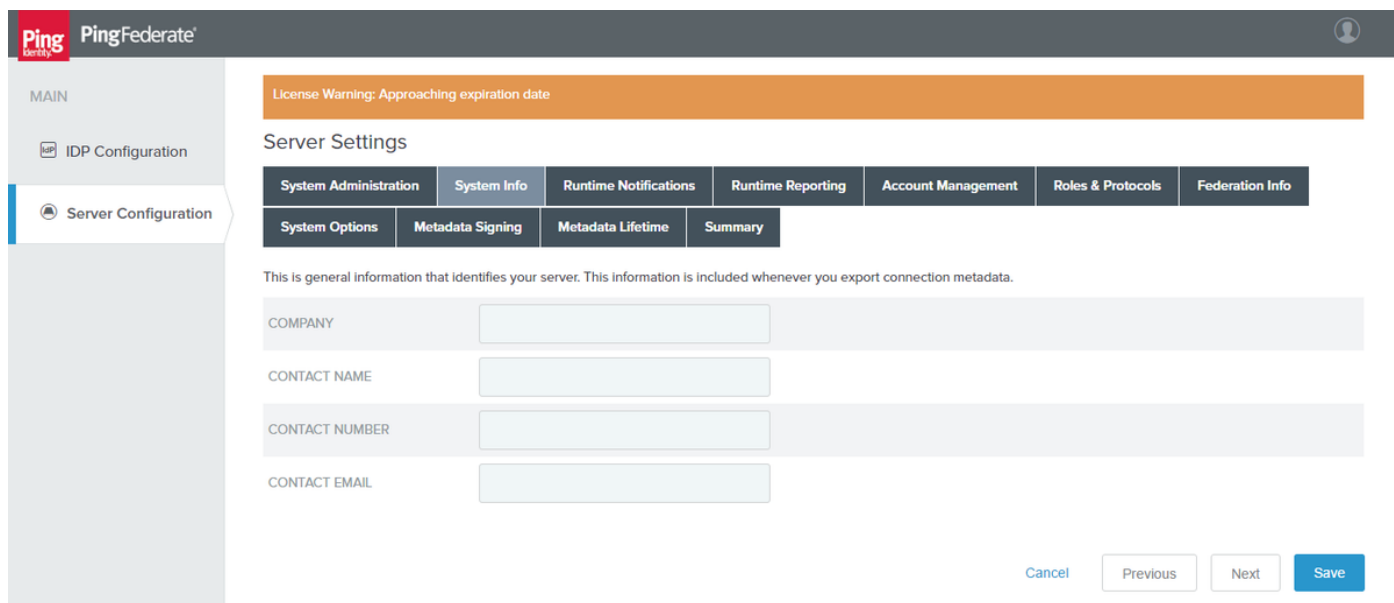
Klicken Sie auf Serverkonfiguration > SYSTEMEINSTELLUNGEN > Servereinstellungen.



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. Under this sub-tab, 'System Options' is also selected. The main content area contains the text 'Select the style of application management practiced in your organization.' followed by a radio button selection for 'System Administration Style'. The 'MULTI-USER ADMINISTRATION' option is selected. At the bottom right, there are 'Cancel', 'Next', and 'Save' buttons.

Klicken Sie auf Next (Weiter).

## Systeminformationen



The screenshot shows the PingFederate administration interface for system information. It features the same 'License Warning' banner and 'Server Settings' navigation as the previous page. The 'System Info' sub-tab is selected, and the main content area contains the text 'This is general information that identifies your server. This information is included whenever you export connection metadata.' Below this, there are four input fields for 'COMPANY', 'CONTACT NAME', 'CONTACT NUMBER', and 'CONTACT EMAIL'. At the bottom right, there are 'Cancel', 'Previous', 'Next', and 'Save' buttons.

Klicken Sie auf Next (Weiter).

## Laufzeitbenachrichtigungen

Ping Federate

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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

Klicken Sie auf Next (Weiter).

Laufzeitberichte

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

Klicken Sie auf Next (Weiter).

Account-Management

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"/>	Deactivate   <a href="#">Change Password</a>

Create User

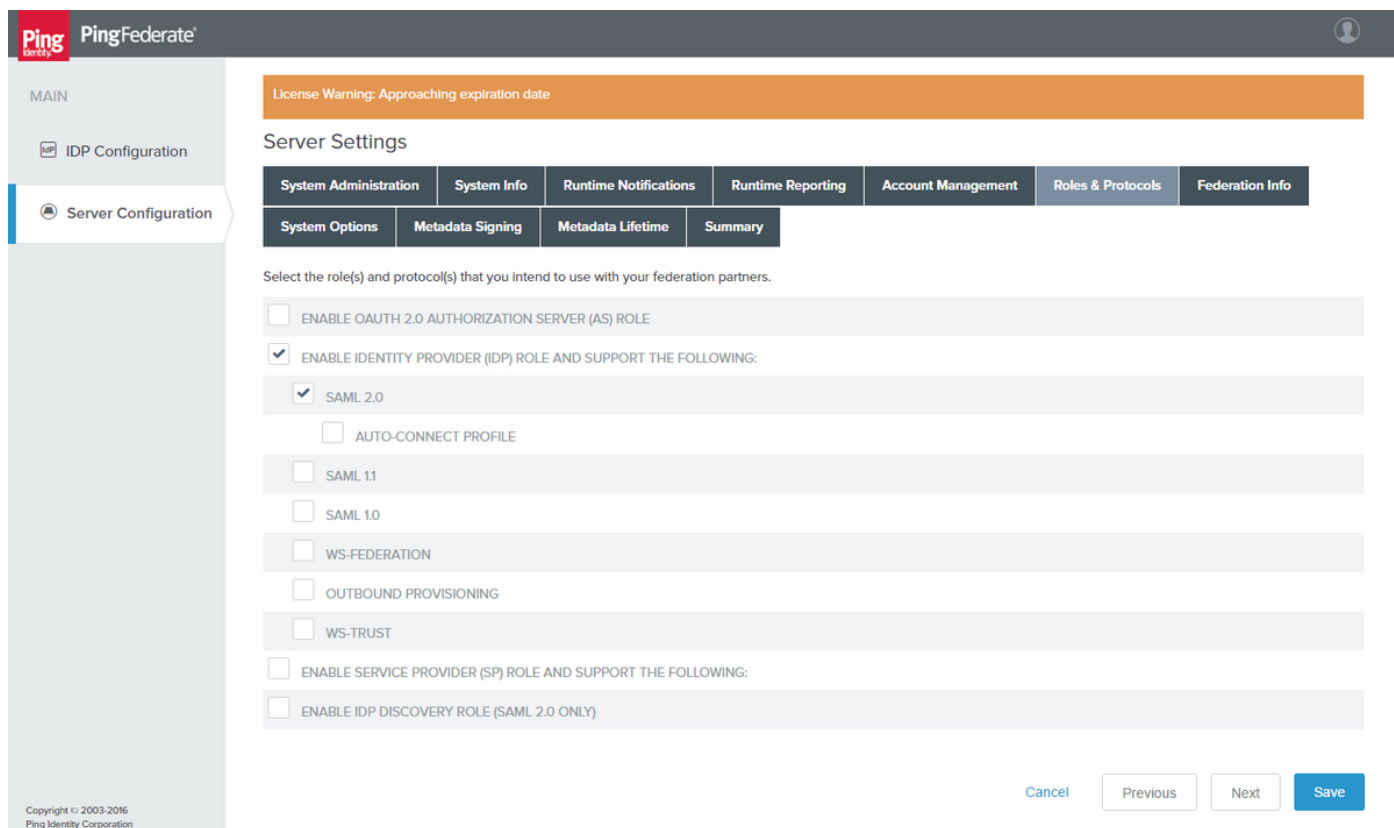
NOTIFY USER OF PASSWORD CHANGE

Cancel Previous Next Save

Klicken Sie auf Next (Weiter).

Hinweis: In diesem Abschnitt können Sie Benutzer hinzufügen oder das Benutzerkennwort ändern.

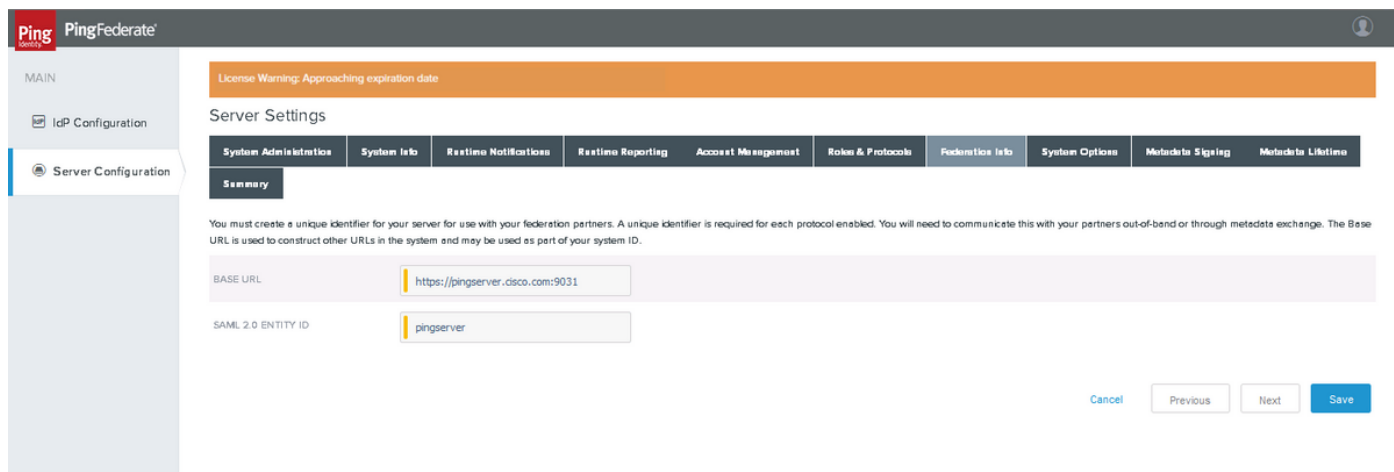
## Rollen und Protokolle



The screenshot shows the PingFederate web interface. The top navigation bar includes the Ping Identity logo and 'PingFederate'. A left sidebar contains 'MAIN', 'IDP Configuration', and 'Server Configuration'. The main content area has a 'License Warning: Approaching expiration date' banner. Below it is the 'Server Settings' section with tabs for 'System Administration', 'System Info', 'Runtime Notifications', 'Runtime Reporting', 'Account Management', 'Roles & Protocols', and 'Federation Info'. Under 'Roles & Protocols', there are sub-tabs for 'System Options', 'Metadata Signing', 'Metadata Lifetime', and 'Summary'. The 'Roles & Protocols' sub-tab is active, showing a list of roles and protocols with checkboxes. The 'ENABLE IDENTITY PROVIDER (IDP) ROLE AND SUPPORT THE FOLLOWING:' section is checked, and 'SAML 2.0' is selected. Other options include 'ENABLE OAUTH 2.0 AUTHORIZATION SERVER (AS) ROLE', 'AUTO-CONNECT PROFILE', 'SAML 1.1', 'SAML 1.0', 'WS-FEDERATION', 'OUTBOUND PROVISIONING', 'WS-TRUST', 'ENABLE SERVICE PROVIDER (SP) ROLE AND SUPPORT THE FOLLOWING:', and 'ENABLE IDP DISCOVERY ROLE (SAML 2.0 ONLY)'. At the bottom right, there are buttons for 'Cancel', 'Previous', 'Next', and 'Save'.

Wählen Sie die entsprechende(n) Rolle(n) und Protokoll(e) aus. Klicken Sie auf Next (Weiter).

## Verbundinformationen



The screenshot shows the PingFederate web interface. The top navigation bar includes the Ping Identity logo and 'PingFederate'. A left sidebar contains 'MAIN', 'IDP Configuration', and 'Server Configuration'. The main content area has a 'License Warning: Approaching expiration date' banner. Below it is the 'Server Settings' section with tabs for 'System Administration', 'System Info', 'Runtime Notifications', 'Runtime Reporting', 'Account Management', 'Roles & Protocols', 'Federation Info', 'System Options', 'Metadata Signing', and 'Metadata Lifetime'. Under 'Federation Info', there is a sub-tab for 'Summary'. The 'Summary' sub-tab is active, showing a text box for 'BASE URL' with the value 'https://pingserver.cisco.com:9031' and a text box for 'SAML 2.0 ENTITY ID' with the value 'pingserver'. Below the text boxes, there are buttons for 'Cancel', 'Previous', 'Next', and 'Save'.

Klicken Sie auf Next (Weiter).

## Systemoptionen

The screenshot shows the PingFederate administration interface. The left sidebar contains a navigation menu with 'MAIN', 'IDP Configuration', and 'Server Configuration'. The main content area is titled 'Server Settings' and has a sub-tab 'System Options' selected. At the top, there is a license warning banner. Below it, a row of tabs includes 'System Administration', 'System Info', 'Runtime Notifications', 'Runtime Reporting', 'Account Management', 'Roles & Protocols', and 'Federation Info'. Underneath, another row of tabs includes 'System Options', 'Metadata Signing', 'Metadata Lifetime', and 'Summary'. The 'System Options' section contains several configuration items: a checkbox for 'DISABLE AUTOMATIC CONNECTION VALIDATION', a 'DATA-STORE VALIDATION INTERVAL (SECS)' field set to '300', 'Incoming Proxy Settings' with fields for 'HTTP HEADER FOR CLIENT IP ADDRESSES', 'HTTP HEADER FOR HOSTNAME', 'CLIENT CERTIFICATE HEADER NAME', and 'CLIENT CERTIFICATE CHAIN HEADER NAME', and a checkbox for 'INCOMING PROXY TERMINATES HTTPS CONNECTIONS'. At the bottom right, there are 'Cancel', 'Previous', 'Next', and 'Save' buttons.

Klicken Sie auf Next (Weiter).

## Metadaten-Signatur

The screenshot shows the PingFederate administration interface, specifically the 'Metadata Signing' sub-tab under 'Server Settings'. The left sidebar is the same as in the previous screenshot. The main content area shows a row of tabs for 'System Administration', 'System Info', 'Runtime Notifications', 'Runtime Reporting', 'Account Management', 'Roles & Protocols', 'Federation Info', 'System Options', 'Metadata Signing', and 'Metadata Lifetime'. The 'Metadata Signing' sub-tab is active. Below the tabs, there is a text instruction: 'Select a certificate for signing the metadata which will be published. If no certificate is selected, the published metadata will not be signed.' There are two dropdown menus: 'SIGNING CERTIFICATE' with the value '015867E2988D (cn=SSO)' and 'SIGNING ALGORITHM' with the value 'RSA SHA256'. A 'Manage Certificates' button is located below these fields. At the bottom right, there are 'Cancel', 'Previous', 'Next', and 'Save' buttons.

Wählen Sie das Signaturzertifikat und den zuvor im Rahmen der Zertifikatkonfiguration erstellten Signaturalgorithmus aus. Klicken Sie auf Next (Weiter).

## Metadaten-Lebensdauer

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

Klicken Sie auf Next (Weiter).

Zusammenfassung

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

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Überprüfen Sie die Einstellungen, und klicken Sie auf Speichern.

Identity Provider (IdP)-Konfiguration

## Adapter

Klicken Sie auf IdP Configuration > APPLICATION INTEGRATION > Adapters.

Instance Name	Instance Id	Type	Parent Name	Action
HTML Form IdP Adapter	HtmlFormIdpValidator	HTML Form IdP Adapter		Delete   Check Usage

Klicken Sie auf Neue Instanz erstellen.

Typ

Ping Federate

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Manage IdP Adapter Instances | Create Adapter Instance

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

Enter an Adapter Instance Name and Id, select the Adapter Type, and a parent if applicable. The Adapter Type is limited to the adapters currently installed on your server.

INSTANCE NAME: HTML Form IdP Adapter

INSTANCE ID: HTMLFormIdPAdapter

TYPE: HTML Form IdP Adapter [Visit Pingidentity.com for additional types](#)

PARENT INSTANCE: None

Cancel Next

Wählen Sie HTML Form IDP Adapter. Klicken Sie auf Next (Weiter).

### IDp-Adapter

Ping Federate

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Manage IdP Adapter Instances | Create Adapter Instance

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

Complete the configuration necessary to look up user security contexts in your environment. This configuration was designed into the adapter for use at your site.

CREDENTIAL VALIDATORS  
(A list of Password Credential Validators to be used for authentication.)

PASSWORD CREDENTIAL VALIDATOR INSTANCE Action

[Add a new row to 'Credential Validators'](#)

Field Name	Field Value	Description
CHALLENGE RETRIES	3	Max value of User Challenge Retries.
SESSION STATE	<input type="radio"/> Globally <input checked="" type="radio"/> Per Adapter <input type="radio"/> None	Determines how state is maintained within one adapter or between different adapter instances.
SESSION TIMEOUT	60	Session Idle Timeout (in minutes). If left blank the timeout will be the Session Max Timeout. Ignored if 'None' is selected for Session State.
SESSION MAX TIMEOUT	480	Session Max Timeout (in minutes). Leave blank for indefinite sessions. Ignored if 'None' is selected for Session State.
ALLOW PASSWORD CHANGES	<input type="checkbox"/>	Allows users to change their password using this adapter.
PASSWORD MANAGEMENT SYSTEM		A fully-qualified URL to your password management system where users can change their password. If left blank, password changes are handled by this adapter.
ENABLE 'REMEMBER MY USERNAME'	<input type="checkbox"/>	Allows users to store their username as a cookie when authenticating with this adapter. Once stored, the username is pre-populated in the login form's username field on subsequent transactions.
CHANGE PASSWORD EMAIL NOTIFICATION	<input type="checkbox"/>	Sends users an email notification upon a password change. This feature relies on the underlying PCV returning 'mail' and 'givenName' attributes containing the user's first name and e-mail address. Additionally, mail settings should be configured within Server Settings.

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Klicken Sie auf Eine neue Zeile zu 'Anmeldeinformationsprüfer' hinzufügen, und wählen Sie den zuvor als PASSWORD CREDENTIAL VALIDATOR INSTANCE erstellten LDAP-Validator aus, und klicken Sie auf Aktualisieren. Klicken Sie auf Weiter.

### Erweiterter Vertrag

Ping Federate

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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](#)

Fügen Sie die Verträge wie abgebildet hinzu. Klicken Sie auf Next (Weiter).

### Adapter-Attribute

Ping Federate

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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](#)

Klicken Sie auf Next (Weiter).

### Adapter-Vertragszuordnung

The screenshot shows the 'Configure Adapter Contract' step in the PingFederate interface. The breadcrumb trail is 'Manage IdP Adapter Instances | Create Adapter Instance'. The current step is 'Adapter Contract Mapping', with other steps being 'Type', 'IdP Adapter', 'Extended Contract', 'Adapter Attributes', and 'Summary'. A red box highlights the 'Configure Adapter Contract' button. Below the breadcrumb, there is explanatory text: '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.' At the bottom right, there are navigation buttons: 'Cancel', 'Previous', 'Next', and 'Done'.

Klicken Sie auf Adaptervertrag konfigurieren.

### Attributquellen und Benutzersuche

The screenshot shows the 'Adapter Contract Mapping' step in the PingFederate interface. The breadcrumb trail is 'Manage IdP Adapter Instances | Create Adapter Instance | Adapter Contract Mapping'. The current step is 'Adapter Contract Mapping', with other steps being 'Attribute Sources & User Lookup', 'Adapter Contract Fulfillment', 'Issuance Criteria', and 'Summary'. Below the breadcrumb, there is explanatory text: '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 this 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'.

Fügen Sie eine Attributquelle hinzu, und wählen Sie den zuvor erstellten LDAP-Speicher aus. Klicken Sie auf Next (Weiter).

### Erfüllung von Adapterverträgen

PingFederate

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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

Die Attribute zuordnen. Klicken Sie auf Next (Weiter).

Ausgabekriterien

PingFederate

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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

Klicken Sie auf Next (Weiter).

Zusammenfassung

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Cancel Previous Done

Überprüfen Sie die Einstellungen, und klicken Sie auf Fertig.

## SP-Verbindungen

### Neue SP-Verbindungen erstellen

#### Verbindungstyp

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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

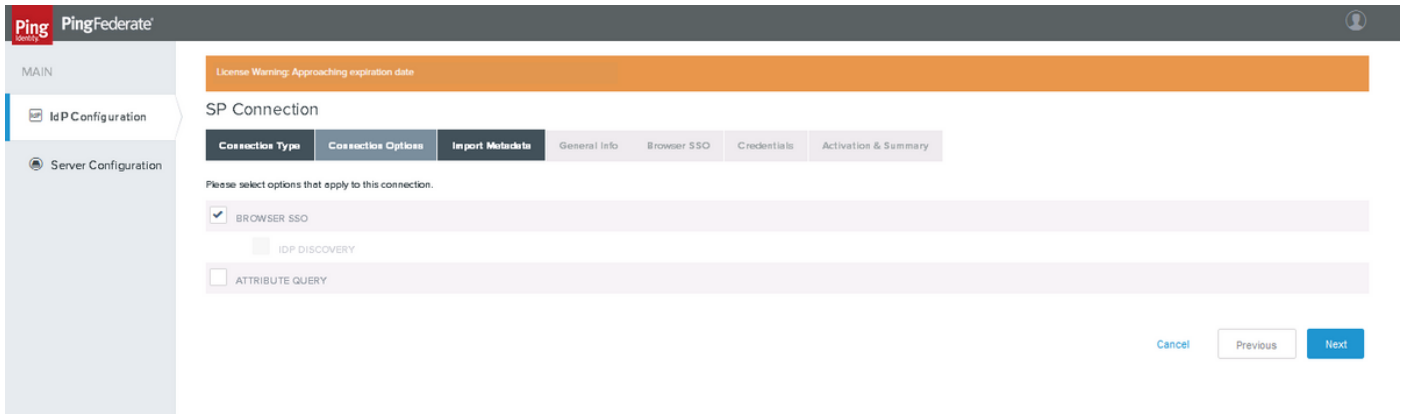
WS-TRUST STS

OUTBOUND PROVISIONING

Cancel Next

Klicken Sie auf Next (Weiter).

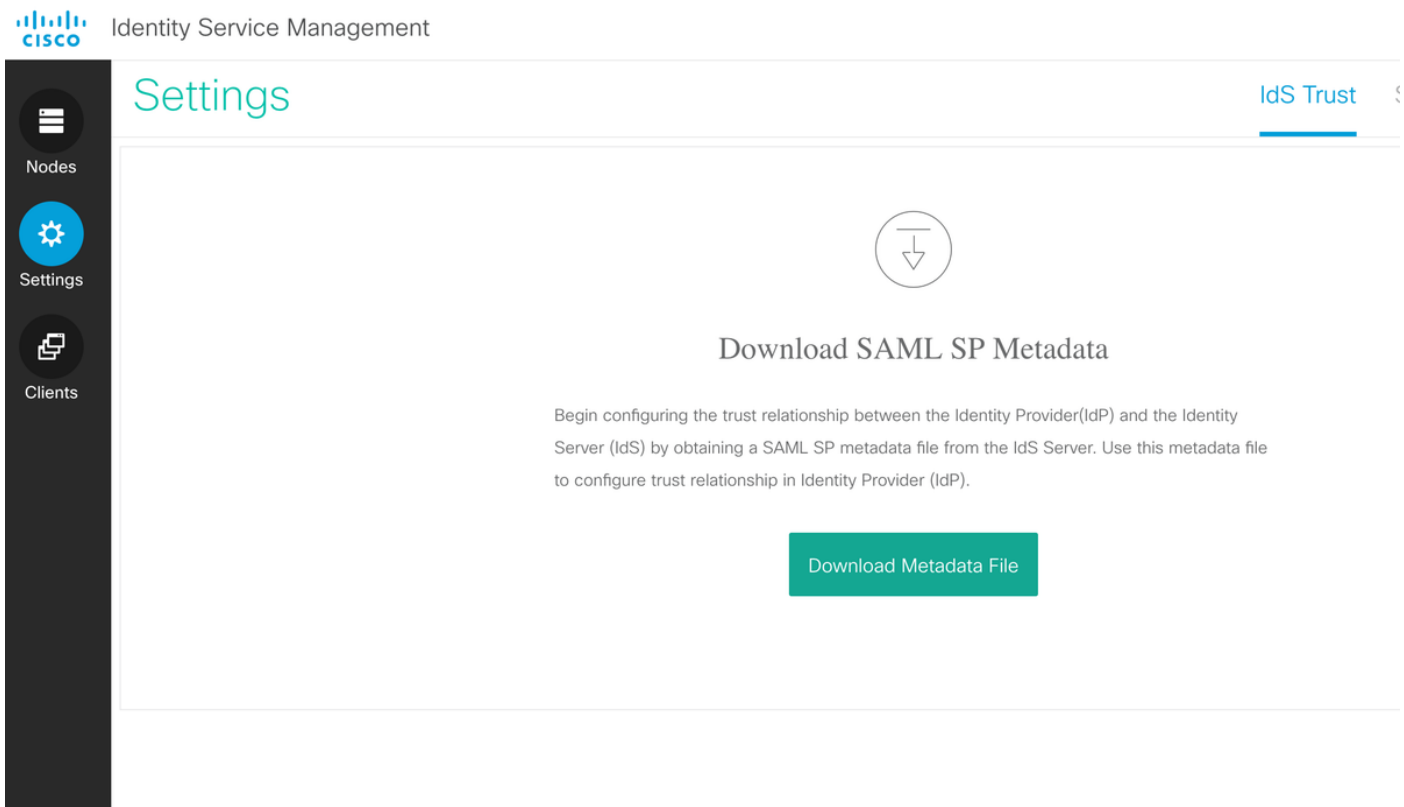
#### Verbindungsoptionen



Klicken Sie auf Next (Weiter).

Metadaten importieren

Laden Sie die XML-Metadatendatei des Diensteanbieters von Cisco Identity Service Admin > Einstellungen > IdS Trust > Metadaten herunterladen



Laden Sie die XML-Metadatendatei des Diensteanbieters in PingFederate hoch.

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

Wählen Sie die heruntergeladene XML-Datei aus, und klicken Sie auf Weiter

### Metadaten-Zusammenfassung

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

Klicken Sie auf Next (Weiter).

### Allgemeine Informationen

License Warning: Approaching expiration date

### 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

Klicken Sie auf Next (Weiter).

## Browser-SSO

The screenshot shows the 'Browser SSO' configuration page in the PingFederate interface. At the top, there is a 'License Warning: Approaching expiration date' banner. Below it, the page title is 'SP Connection'. A navigation bar contains tabs: 'Connection Type', 'Connection Options', 'Import Metadata', 'Metadata Summary', 'General Info', 'Browser SSO' (selected), 'Credentials', and 'Activation & Summary'. The main content area has a heading 'BROWSER SSO CONFIGURATION' and a 'Configure Browser SSO' button. At the bottom right, there are 'Cancel', 'Save Draft', 'Previous', and 'Next' buttons.

Klicken Sie auf Browser-SSO konfigurieren.

SAML-Profil (Security Assertion Markup Language)

The screenshot shows the 'SAML Profile' configuration page. The page title is 'SP Connection | Browser SSO'. The navigation bar has tabs: 'SAML Profiles' (selected), 'Assertion Lifetime', 'Assertion Creation', 'Protocol Settings', and 'Summary'. A descriptive text states: '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.' There are two sections: 'Single Sign-On (SSO) Profiles' with checkboxes for 'IDP-INITIATED SSO' and 'SP-INITIATED SSO' (both checked), and 'Single Logout (SLO) Profiles' with checkboxes for 'IDP-INITIATED SLO' and 'SP-INITIATED SLO' (both unchecked). At the bottom right, there are 'Cancel', 'Save Draft', and 'Next' buttons.

Klicken Sie auf Next (Weiter).

Anmerkung: Single Logout (SLO) wird von Cisco Identity Service (IdS) in Version 11.6 nicht unterstützt und ist nicht ausgewählt.

Lebensdauer der Aussage

The screenshot shows the 'Assertion Lifetime' configuration page. The page title is 'SP Connection | Browser SSO'. The navigation bar has tabs: 'SAML Profiles', 'Assertion Lifetime' (selected), 'Assertion Creation', 'Protocol Settings', and 'Summary'. A descriptive text states: 'When an assertion is issued to the SP, there is a timeframe of validity before and after issuance. Please specify these parameters below.' There 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.

Klicken Sie auf Next (Weiter).

## Erstellung von Assertionen

The screenshot shows the 'Assertion Creation' step in the PingFederate configuration interface. The page title is 'SP Connection | Browser SSO'. A navigation bar at the top contains tabs for 'SAML Profiles', 'Assertion Lifetime', 'Assertion Creation' (which is active), 'Protocol Settings', and 'Summary'. Below the tabs, a text block states: 'This task provides the configuration for creating SAML assertions to enable SSO access to resources at your SP partner's site.' Underneath, an 'Assertion Configuration' table lists the following settings: 'IDENTITY MAPPING' set to 'Standard', 'ATTRIBUTE CONTRACT' set to 'SAML\_SUBJECT, email, firstname, lastname, uid, updateTimestamp', 'ADAPTER INSTANCES' set to '1', and 'AUTHENTICATION POLICY MAPPINGS' set to '0'. A red rectangular box highlights a button labeled 'Configure Assertion Creation'. At the bottom right, there are five buttons: 'Cancel', 'Previous', 'Next', 'Done', and 'Save'.

Klicken Sie auf Assertion-Erstellung konfigurieren

## Identitätszuordnung

The screenshot shows the 'Identity Mapping' step in the PingFederate configuration interface. The page title is 'SP Connection | Browser SSO | Assertion Creation'. The navigation bar at the top contains tabs for 'Identity Mapping' (which is active), 'Attribute Contract', 'Authentication Source Mapping', and 'Summary'. Below the tabs, a text block explains: 'Identity mapping is the process in which users authenticated by the IdP are associated with user accounts local to the SP. Select the type of name identifier that you will send to the SP. Your selection may affect the way that the SP will look up and associate the user to a specific local account.' There are three radio button options: 'STANDARD: Send the SP a known attribute value as the name identifier. The SP will often use account mapping to identify the user locally.' (which is selected), '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.' (with a sub-option 'INCLUDE ATTRIBUTES IN ADDITION TO THE PSEUDONYM.'), and 'TRANSIENT: Send the SP an opaque, temporary value as the name identifier.' (with a sub-option 'INCLUDE ATTRIBUTES IN ADDITION TO THE TRANSIENT IDENTIFIER.'). At the bottom right, there are four buttons: 'Cancel', 'Next', 'Done', and 'Save'.

Klicken Sie auf Next (Weiter).

## Attributvertrag



## Authentifizierungsquellenzuordnung

The screenshot shows the PingFederate Admin Console interface. At the top, there is a 'License Warning: Approaching expiration date' banner. The main navigation bar includes 'MAIN', 'IdP Configuration', and 'Server Configuration'. The current page is 'SP Connection | Browser SSO | Assertion Creation'. The 'Authentication Source Mapping' tab is active, with other tabs being 'Identity Mapping', 'Attribute Contract', and 'Summary'. Below the tabs, a text block explains: '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 a authentication policy contract for each policy.' Below this is a table with two rows: 'Adapter Instance Name' and 'Authentication Policy Contract Name', both with 'Virtual Server IDs' and an 'Action' column. At the bottom, there are two buttons: 'Map New Adapter Instance' and 'Map New Authentication Policy'. On the right side, there are navigation buttons: 'Cancel', 'Save Draft', 'Previous', and 'Next'.

Klicken Sie auf Neue Adapterinstanz zuordnen.

The screenshot shows the PingFederate Admin Console interface. At the top, there is a 'License Warning: Approaching expiration date' banner. The main navigation bar includes 'MAIN', 'IdP Configuration', and 'Server Configuration'. The current page is 'SP Connection | Browser SSO | Assertion Creation | IdP Adapter Mapping'. The 'Adapter Instance' tab is active, with other tabs being 'Mapping Method', 'Attribute Contract Fulfillment', 'Issuance Criteria', and 'Summary'. Below the tabs, a text block explains: '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.' Below this is a form with an 'ADAPTER INSTANCE' dropdown menu set to 'HTML Form IdP Adapter'. Underneath is the 'Adapter Contract' section with input fields for 'email', 'firstname', 'lastname', 'uid', 'updatetimestamp', 'user\_principal', and 'username'. There is also an 'OVERWRITE INSTANCE SETTINGS' checkbox which is currently unchecked. At the bottom, there is a 'Manage Adapter Instances' button. On the right side, there are navigation buttons: 'Cancel', 'Save Draft', and 'Next'.

Ordnen Sie den zuvor erstellten HTML Form IdP-Adapter zu. Klicken Sie auf Next (Weiter).

Zuordnungsmethode

Ping Federate

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 SAML ASSERTION

Cancel Previous Next Done Save

Klicken Sie auf Next (Weiter).

Erfüllung von Attributverträgen

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

Ping Federate

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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

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Cancel Previous Next Done Save

Stellen Sie sicher, dass die Werte auf

Attributvertrag	Quelle	Wert
SAML_SUBJECT	Adapter	Benutzername
		Sehr wichtiger Hinweis: Der für diese Einstellung verwendete Wert muss mit dem in der LDAP-Filtereinstellung verwendeten Wert übereinstimmen (Abschnitt 3.1.3.2. Instanzkonfiguration).

Attributvertrag	Quelle	Wert
		Anmerkung: 'username' wird hier verwendet, da der dort verwendete Filter sAMAccountName=\${username}
SAML_AUTHN_CTX	Text	urn:oasis:names:tc:SAML:2.0:ac:classes>PasswordProtectedTransport
SAML_NAME_FORMAT	Text	urn:oasis:names:tc:SAML:2.0:nameid-format:transient
UID	Adapter	UID
Benutzer_Prinzpal	Adapter	Benutzer_Prinzpal

Klicken Sie auf Next (Weiter).

### Ausgabekriterien

The screenshot shows the PingFederate web interface. The main content area is titled 'IdP Adapter Mapping' and contains a table for defining output criteria. The table has the following columns: Source, Attribute Name, Condition, Value, Error Result, and Action. The table is currently empty, with dropdown menus for Source, Attribute Name, and Condition, and input fields for Value and Error Result. An 'Add' button is located to the right of the table. Below the table, there are navigation buttons: 'Cancel', 'Previous', 'Next', 'Done', and 'Save'.

### Zusammenfassung

**Ping Identity PingFederate**

MAIN

IdP Configuration

Server Configuration

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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)
-----------	--------

Cancel Previous Done Save

Überprüfen Sie die Einstellungen, und klicken Sie auf Fertig

Protokolleinstellungen

**Ping Identity PingFederate**

MAIN

IdP Configuration

Server Configuration

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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

Klicken Sie auf Protokolleinstellungen konfigurieren.

Assertion Consumer Service-URL

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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 checked="" type="checkbox"/>	0	POST	/ids/sem/Response	<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

Hinzufügen eines POST-Bindungs-SSO-Endpunkts Klicken Sie auf Next (Weiter).

### Zulässige SAML-Bindungen

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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

Klicken Sie auf Next (Weiter).

### Signaturrichtlinie

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

Hinweis: Cisco IdS gewährleistet, dass die SAML-Nachricht "signiert" ist, und wählt daher nicht "IMMER DIE SAML-ASSERTION UNTERZEICHNEN" aus. Dies liegt daran, dass PingFederate entweder 'SAML Assertion' oder 'SAML Response' signieren würde, aber nicht beides.

Klicken Sie auf Next (Weiter).

## Verschlüsselungsrichtlinie

The screenshot shows the 'Encryption Policy' configuration page in PingFederate. The page title is 'SP Connection | Browser SSO | Protocol Settings'. There are tabs for '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: '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'. Below these are four checkboxes: 'SAML\_SUBJECT', 'SAML\_NAME\_FORMAT', 'UID', and 'USER\_PRINCIPAL'. At the bottom right, there are buttons for 'Cancel', 'Previous', 'Next', 'Done', and 'Save'.

Hinweis: Cisco IdS unterstützt keinen verschlüsselten SAML-Datenstrom und wählt daher für die Einstellung "Encryption Policy" (Verschlüsselungsrichtlinie) "NONE" (KEINE).

Klicken Sie auf Next (Weiter).

## Zusammenfassung

The screenshot shows the 'Summary' configuration page in PingFederate. The page title is 'SP Connection | Browser SSO | Protocol Settings'. There are tabs for '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'. Below the warning, there is a heading 'Protocol Settings' and a sub-heading 'Assertion Consumer Service URL'. The 'Endpoint' is 'URL:/ids/saml/respone (POST)'. Below this, there are sections for 'Allowable SAML Bindings', 'Signature Policy', and 'Encryption Policy'. The 'Allowable SAML Bindings' section has a table with columns for 'Artifact', 'POST', 'Redirect', and 'SOAP'. The 'Signature Policy' section has a table with columns for 'Require digitally signed AuthN requests' and 'Always sign the SAML Assertion'. The 'Encryption Policy' section has a table with columns for 'Status'. At the bottom right, there are buttons for 'Cancel', 'Previous', 'Done', and 'Save'.

Überprüfen Sie die Einstellungen, und klicken Sie auf Fertig

## Anmeldeinformationen

Klicken Sie auf Anmeldeinformationen konfigurieren.

Einstellungen für digitale Signaturen

Wählen Sie SIGNING CERTIFICATE created before. Andernfalls können Sie auf Zertifikate verwalten klicken, um ein Zertifikat zu erstellen.

---

Hinweis: Cisco IdS unterstützt nicht RSA SHA256 für die SAML-Antwortsignatur, daher wird "RSA SHA1" verwendet.

---

Klicken Sie auf Next (Weiter).

Einstellungen für die Signaturüberprüfung

Ping Federate

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SP Connection | Credentials

Back-Channel Authentication | Digital Signature Settings | Signature Verification Settings | Summary

Incoming SAML messages or security tokens may be digitally signed. This configuration task provides options for verifying signatures.

Manage Signature Verification Settings

Cancel Previous Next Done Save

Klicken Sie auf Einstellungen für die Signaturverifizierung verwalten.

Vertrauensmodell

Ping Federate

License Warning: Approaching expiration date

SP Connection | Credentials | Signature Verification

Trust Model | Signature Verification Certificate | Summary

Select the Trust Model to be used for verifying digital signatures received from this partner.

ANCHORED The verification certificate must be signed by a Trusted CA and included in the incoming message.

UNANCHORED The verification certificate is self-signed, or you wish to trust a specific certificate.

Cancel Next Done Save

Klicken Sie auf Next (Weiter).

Zertifikat für die Signaturüberprüfung

Ping Federate

License Warning: Approaching expiration date

SP Connection | Credentials | Signature Verification

Trust Model | Signature Verification Certificate | Summary

Please select the certificate(s) to use when verifying these digital signatures. When multiple certificates are chosen, each certificate is tried from the top of the list down until the signature is verified.

PRIMARY 2A7B5D5EB (cn=UCCK-SA1.cisco.com)

SECONDARY - SELECT -

Manage Certificates

Cancel Previous Next Done Save

Klicken Sie auf Zertifikate verwalten, um Zertifikate von SP zu importieren.

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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

Klicken Sie auf Importieren, um ein Zertifikat zu importieren.

### Zusammenfassung

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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

Klicken Sie auf Fertig

### Zusammenfassung

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

Überprüfen Sie die Zusammenfassung, und klicken Sie auf Fertig

Aktivierung und Zusammenfassung

**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

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**Ping Identity PingFederate**

MAIN

- IdP Configuration
- Server Configuration

### General Info

Partner's Entity ID (Connection ID)	UCCX-SA1.cisco.com
Base URL	https://UCCX-SA1.cisco.com:8553

### 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
------------------	-------------------------

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MAIN

- IdP Configuration
- Server Configuration

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**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**

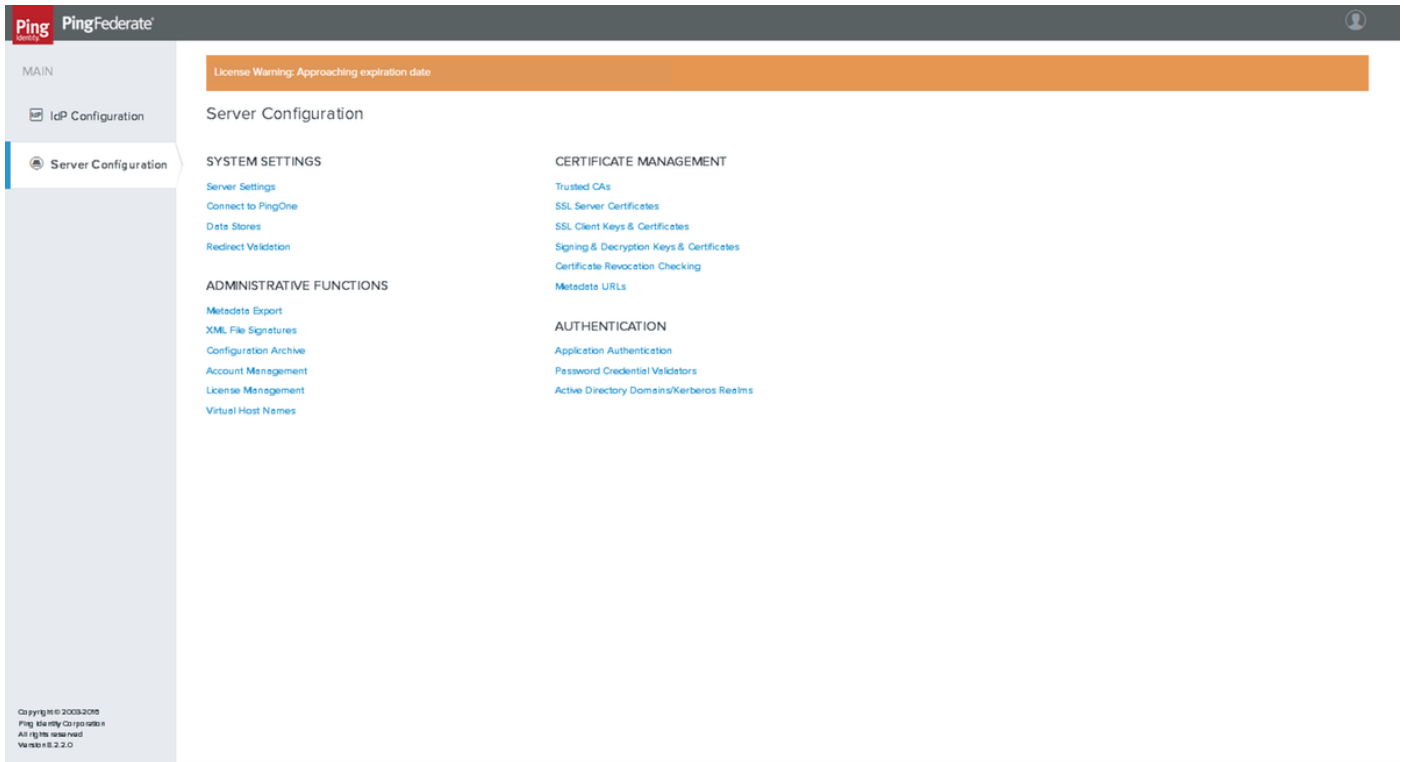
Selected Certificate	CN=UCCX-SA1.cisco.com
----------------------	-----------------------

Cancel Previous Save

Überprüfen Sie die Übersicht, und klicken Sie auf Speichern.

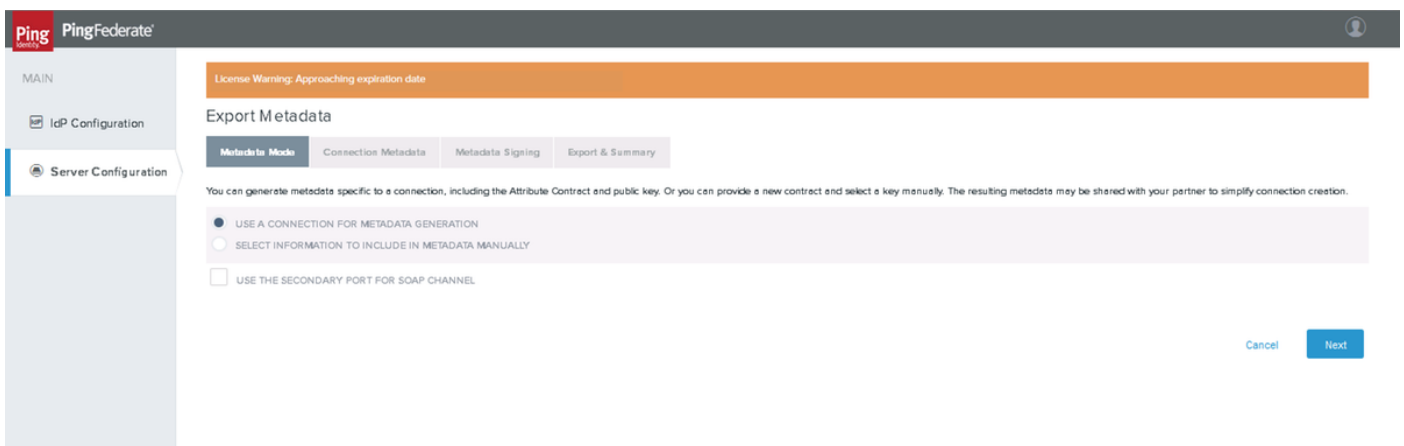
## PingFederate-Metadaten exportieren

### Metadatenexport



## Metadatenmodus

Klicken Sie auf Serverkonfiguration > VERWALTUNGSFUNKTIONEN > Metadatenexport



Klicken Sie auf Next (Weiter).

## Verbindungsmetadaten

## 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

Wählen Sie die von Ihnen erstellte SP-Verbindung aus, und klicken Sie auf Weiter

## Metadaten-Signatur

Ping Federate

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### 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

Wählen Sie das von Ihnen erstellte Metadatenzertifikat und den SIGNING ALGORITHM als RSA SHA256 aus. Klicken Sie auf Weiter

## Export und Zusammenfassung

**Export Metadata**

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

**Export Metadata**

**Metadata Mode**

Metadata mode	Use connection
Use the secondary port for SOAP channel	false

**Connection Metadata**

Selected connection	UCCX-SA1.cisco.com
Attribute	uid
Attribute	SAML_AUTHN_CTX
Attribute	user_principal
Attribute	SAML_NAME_FORMAT
Digital Signature Key	CN=pingserver.cisco.com, OU=cisco, O=ccbu, L=bangalore, ST=Karnataka, C=IN

**Metadata Signing**

Signing 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 SHA256

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Klicken Sie auf Export and save file in your local system.

- Bearbeiten Sie die heruntergeladene XML-Metadatenfile, um die 'md'-Namespaceeinträge zu entfernen und zu speichern.
- Laden Sie dann die gespeicherte Metadatenfile von der Seite "idsadmin" auf "IdS" hoch, um die IDP-Vertrauensstellung einzurichten.

## Beispiel-Metadaten

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<md:Metadata xmlns:md="http://www.pingidentity.com/2006/01/metadata" id="1" ?>
  <md:MetadataMode>
    <md:MetadataModeUseConnection>true</md:MetadataModeUseConnection>
    <md:MetadataModeUseSecondaryPort>false</md:MetadataModeUseSecondaryPort>
  </md:MetadataMode>
  <md:ConnectionMetadata>
    <md:SelectedConnection>UCCX-SA1.cisco.com</md:SelectedConnection>
    <md:Attribute>uid</md:Attribute>
    <md:Attribute>SAML_AUTHN_CTX</md:Attribute>
    <md:Attribute>user_principal</md:Attribute>
    <md:Attribute>SAML_NAME_FORMAT</md:Attribute>
    <md:DigitalSignatureKey>CN=pingserver.cisco.com, OU=cisco, O=ccbu, L=bangalore, ST=Karnataka, C=IN</md:DigitalSignatureKey>
  </md:ConnectionMetadata>
  <md:MetadataSigning>
    <md:SigningCertificate>CN=pingserver.cisco.com, OU=cisco, O=ccbu, L=bangalore, ST=Karnataka, C=IN</md:SigningCertificate>
    <md:IncludeCertificateInKeyInfo>true</md:IncludeCertificateInKeyInfo>
    <md:IncludeRawKeyInKeyValue>true</md:IncludeRawKeyInKeyValue>
    <md:SelectedSigningAlgorithm>RSA SHA256</md:SelectedSigningAlgorithm>
  </md:MetadataSigning>
</md:Metadata>
```

## Fehlerbehebung

Problem	Tool	Mögliche Ursache
Fehler beim Hochladen der PingFederate-Metadaten auf der IDs-Admin-	Textdatei-Editor	Stellen Sie sicher, dass die XML-Metadatenfile nicht über die 'md'-Namespaceeinträge verfügt.

Problem	Tool	Mögliche Ursache
Seite.		
SAML-Fluss fehlgeschlagen	SAML Tracer	<p>Überprüfen Sie, ob 'StatusCode' 'Success' anzeigt, d. h. &lt;Beispiel:StatusCode Value="urn:oasis:names:tc:SAML:2.0:status:Success" /&gt;</p> <ul style="list-style-type: none"> <li>• Wenn nicht, prüfen Sie, ob 'Requester' oder 'Responder' angezeigt wird. <ul style="list-style-type: none"> <li>◦ 'Antragsteller' würde bedeuten, dass ein Problem mit der SAML-Anforderung vorliegt, d. h., dass Cisco IdS die Anforderung nicht ordnungsgemäß gesendet hat. Überprüfen Sie die Cisco IDs-Protokolle im Ordner /opt/cisco/ids/log/.</li> <li>◦ 'Responder' würde ein Problem mit dem IdP bedeuten - überprüfen Sie daher die PingFederate-Protokolle.</li> </ul> </li> </ul>
SAML-Fluss fehlgeschlagen	SAML Tracer	<p>Überprüfen Sie das &lt;saml:AuthnContextClassRef&gt;-Element. Sein Wert muss urn:oasis:names:tc:SAML:2.0:ac:classes&gt;PasswordProtectedTransport sein.</p> <p>Wenn der Wert auf urn:oasis:names:tc:SAML:2.0:ac:classes:unspecified festgelegt ist, prüfen Sie, ob der SAML_AUTHN_CTX-Vertrag richtig konfiguriert und zugeordnet wurde.</p>
SAML-Fluss fehlgeschlagen	SAML Tracer	<p>Suchen Sie nach dem &lt;saml:AttributeStatement&gt;-Element - es muss vorhanden sein und untergeordnete Elemente enthalten, die 'uid' und 'user_principal' entsprechen.</p> <p>Falls nicht gefunden, überprüfen Sie die Einstellungen für die Erstellung von Assertionen und die Einstellungen für die Erfüllung von Verträgen, um sicherzustellen, dass die Vertragsattribute korrekt definiert und zugeordnet werden.</p>
SAML-Fluss fehlgeschlagen	SAML Tracer	<p>Suchen Sie in den Cisco IdS- oder PingFederate-Protokollen nach der Meldung "Invalid Signature" (Ungültige Signatur).</p> <p>Falls bestätigt, setzen Sie die Metadaten-Vertrauensstellung über IdS und PingFederate wieder ein.</p>
SAML-Fluss fehlgeschlagen	SAML Tracer	<p>Überprüfen Sie die Zeitbedingungen. Die Zeit, zu der Cisco IdS die SAML-Antwort erhalten hat, muss zwischen den in &lt;saml:Conditions NotBefore="2016-12-18T07:24:10.191Z" angegebenen Zeiten liegen.</p>

Problem	Tool	Mögliche Ursache
		NotOnOrAfter="2016-12-18T07:34:10.191">

## Weitere Konfiguration für SSO:

In diesem Dokument wird die IdP-Konfiguration für SSO zur Integration in den Cisco Identity Service beschrieben. Weitere Informationen finden Sie in den jeweiligen Produktkonfigurationsanleitungen:

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

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