

PingFederate®

Absorb Password Credential Validator v1.0.0

User Guide



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PingFederate Absorb Password Credential Validator User Guide
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Note that Ping Identity may not provide support for any sample configurations provided in this document. The variability inherent among security environments prevents full testing and support for all possible platform configurations. If you need special assistance or would like to inquire about implementation or support programs, please contact Ping Identity Global Client Services (<http://support.pingidentity.com>).

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Purpose

This user guide is intended for use by PingFederate clients, who would like the ability to leverage a password credential validator that can validate credentials via a web service call against the Absorb RESTful API.

Prerequisites

This document assumes that you already have the following installed and configured:

- A functional PingFederate environment, version 8.3+
- JDK version 8+
- At least one IdP adapter for use as the primary form of authentication (i.e., HTML Form IdP Adapter), so that it can be configured to leverage the Absorb Password Credential Validator (PCV)
- At least one SP connection that can be configured with that IdP adapter as a primary form of authentication

Installation

1. From the /dist folder in *pf-absorb-password-credential-validator-1.0.0.zip*, copy the noted file to the following directory in your PingFederate:
 - <PingFederateInstall>/pingfederate/server/default/deploy/
 - pf-absorb-password-credential-validator-1.0.0.jar
2. Repeat step 1 on other clustered engine nodes.
3. Start or restart PingFederate.

Configuration

Configuring the Absorb Password Credential Validator

1. Log into the PingFederate admin console and click **Password Credential Validators** under **Server Configuration >> Authentication**.
2. Click **Create New Instance...**
3. Enter the **Instance Name**, **Instance Id**, choose **Absorb Password Credential Validator 1.0.0**, and click **Next**.

PingFederate

MAIN

- IdP Configuration
- SP Configuration
- OAuth Settings
- Server Configuration**

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

AbsorbPCV

INSTANCE ID

AbsorbPCV

TYPE

Absorb Password Credential Validator 1.0.0

Visit Pingidentity.com for additional types

PARENT INSTANCE

None

Cancel Next

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4. Enter the required information, and click **Next**.

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MAIN

- IdP Configuration
- SP Configuration
- OAuth Settings
- Server Configuration**

Manage Credential Validator Instances | Create Credential Validator Instance

Type Instance Configuration 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.

Absorb Password Credential Validator 1.0.0

HEADERS

(Headers that need to be set and passed along with the response (i.e., Content-Type, Accept))

HEADER NAME	HEADER VALUE	Action
Content-Type	application/json	Edit Delete

Add a new row to 'Headers'

Field Name	Field Value	Description
REST WEB SERVICE URL	https://company.sandbox.myabsorb.ca/api	The REST web service URL
ENABLE SSL	<input checked="" type="checkbox"/>	Enable SSL when using the REST web service URL
SUCCESS RESPONSE VALUE	200	The success response value (e.g., 200, 201)
ABSORB CLIENT PRIVATE KEY	asdf23s-74a1-491f-ba41-577f60d8c6c3	A unique Absorb private key identifying the client

Cancel Previous Next Done

5. Review the configuration on the summary page, and click **Done**.

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MAIN

IdP

IdP Configuration

SP

SP Configuration

OA

OAuth Settings

Server Configuration

Manage Credential Validator Instances | Create Credential Validator Instance

Type

Instance Configuration

Summary

Password Credential Validator configuration summary.

Create Credential Validator Instance

Type

Instance Name	AbsorbPCV
Instance Id	AbsorbPCV
Type	Absorb Password Credential Validator 1.0.0
Class Name	com.pingidentity.clientservices.product.pcv.absorb.AbsorbPasswordCredentialValidator
Parent Instance Name	None

Instance Configuration

Headers	Content-Type, application/json
REST Web Service URL	https://company.sandbox.myabsorb.ca/api/Rest/v1/Authenticate
Enable SSL	true
Success Response Value	200
Absorb Client Private Key	asdf23s-74a1-491f-ba41-577f60d8c6c3

Cancel

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Done

6. Click **Save**.

Configuring an IdP Adapter to Leverage the Absorb Password Credential Validator

1. Click **Adapters** under **IdP Configuration >> Application Integration Settings**.
2. Click **Create New Instance...**
3. Enter the **Instance Name** and **Instance Id**, choose the adapter type (e.g., HTML Form IdP Adapter), and click **Next**.

Next

- Click **Add a new row to 'Credential Validators.'**
- Select the Absorb Password Credential Validator created, and click **Update** (should change to **Edit** after updated).

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MAIN

- IdP Configuration**
- SP Configuration
- OAuth Settings
- Server Configuration

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
AbsorbPCV	Edit Delete

[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.

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- Modify the other configuration parameters on that page if needed, and click **Next**.
- Extend the contract by adding **absorb_username**, and click **Next**.

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MAIN

- IdP Configuration**
- SP Configuration
- OAuth Settings
- Server Configuration

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
absorb_username	Edit Delete
<input type="text"/>	Add

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- Unselect the **username Pseudonym**, select the **absorb_username Pseudonym**, and click **Next**.

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IdP Configuration

SP Configuration

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Server Configuration

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
absorb_username	<input checked="" type="checkbox"/>	<input type="checkbox"/>
username	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> MASK ALL OGNL-EXPRESSION GENERATED LOG VALUES		

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Done

- Click **Next**.
- Review the configuration on the summary page, and click **Done**.

Create Adapter Instance

Type

Instance Name	HTMLFormIdPAdapterAbsorb
Instance Id	HTMLFormIdPAdapterAbsorb
Type	HTML Form IdP Adapter
Class Name	com.pingidentity.adapters.htmlform.idp.HtmlFormIdpAuthnAdapter
Parent Instance Name	None

IdP Adapter

Credential Validators	AbsorbPCV
Challenge Retries	3
Session State	Per Adapter
Session Timeout	60
Session Max Timeout	480
Allow Password Changes	false
Password Management System	
Enable 'Remember My Username'	false
Change Password Email Notification	false
Show Password Expiring Warning	false
Password Reset Type	None
Login Template	html.form.login.template.html
Logout Path	
Logout Redirect	
Logout Template	idp.logout.success.page.template.html
Change Password Template	html.form.change.password.template.html
Change Password Message Template	html.form.message.template.html
Password Management System Message Template	html.form.message.template.html
Change Password Email Template	message-template-end-user-password-change.html
Expiring Password Warning Template	html.form.password.expiring.notification.template.html
Threshold for Expiring Password Warning	7
Snooze Interval for Expiring Password Warning	24
Login Challenge Template	html.form.login.challenge.template.html
'Remember My Username' Lifetime	30
Allow Username Edits During Chaining	false
Track Authentication Time	true
Post-Password Change Re-Authentication Delay	0
Password Reset Username Template	forgot-password.html
Password Reset Code Template	forgot-password-resume.html
Password Reset Template	forgot-password-change.html
Password Reset Error Template	forgot-password-error.html
Password Reset Success Template	forgot-password-success.html
OTP Length	8
OTP Time to Live	10
PingID Properties	

Extended Contract	
Attribute	username
Attribute	absorb_username

Adapter Attributes	
Mask all OGNL expression log values	false
Pseudonym	absorb_username

Adapter Contract Mapping	
Attribute Sources & User Lookup	
Data Sources	(None)

Adapter Contract Fulfillment	
absorb_username	absorb_username (Adapter)
username	username (Adapter)

Issuance Criteria	
Criterion	(None)

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[Done](#)

11. Click **Save**.

Configuring the SP Connection to Leverage the Absorb PCV-integrated Adapter

1. Click the SP connection to be modified or create a new SP connection, which should be located under **IdP Configuration >> SP Connections**.
2. Click **Authentication Source Mapping** and click **Map New Adapter Instance**.
3. Choose the adapter that was configured with the Absorb Password Credential Validator, and click **Next**.
4. Go through the rest of the configuration process. Make sure that the **SAML_SUBJECT** (or whichever attribute is chosen) is mapped to **absorb_username**.
5. Review the configuration on the summary page, and click **Done**.

MAIN

IdP Configuration

SP Configuration

OAuth Settings

Server Configuration

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

Adapter Instance | Virtual Server IDs | Mapping Method | Attribute Contract Fulfillment | Issuance Criteria | Summary

Click a heading link to edit a configuration setting.

Adapter Instance

Selected adapter HTMLFormIdPAdapterAbsorb

Virtual Server IDs

Restricted Virtual Server ID (none)

Mapping Method

Adapter HTML Form IdP Adapter

Mapping Method Use only the Adapter Contract values in the mapping

Attribute Contract Fulfillment

SAML_SUBJECT absorb_username (Adapter)

Issuance Criteria

Criterion (None)

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[Done](#)
[Save](#)

6. Review the **Authentication Source Mapping**, and click **Done**.

Primary Test Case

1. Open a browser and go to the IdP login form chosen as the primary form of authentication. In this example, the HTML Form IdP Adapter leveraging the Absorb PCV was chosen.

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2. Log in using the test credentials.

Results: If authorized into the target destination, authentication was a success. This means that the user authenticated successfully against the web service (verify by logs for details- ensure that DEBUG is enabled).

Other Test Cases

1. Log in with invalid credentials.

Logging

To enable various logging modes for the Absorb Password Credential Validator, add the following in the relevant sections in <PingFederateInstall>/pingfederate/server/default/conf/log4j2.xml.

```
<Logger name="com.pingidentity.clientservices.product.pcv.absorb" level="[ DEBUG | INFO  
| WARN | ERROR ]" />
```

To enable logging for the Absorb Password Credential Validator in a separate file, add the following in the relevant sections in

<PingFederateInstall>/pingfederate/server/default/conf/log4j2.xml.

```
<RollingFile name="AbsorbPCV" fileName="${sys:pf.log.dir}/absorbpcv.log"  
filePattern="${sys:pf.log.dir}/absorbpcv.%d{yyyy-MM-dd}.log"  
ignoreExceptions="false">  
  <PatternLayout>  
    <!-- Uncomment this if you want to use UTF-8 encoding instead of system's  
    default encoding.  
    <charset>UTF-8</charset> -->  
    <pattern>%d %m%n</pattern>  
  </PatternLayout>  
  <Policies>  
    <TimeBasedTriggeringPolicy />  
  </Policies>  
</RollingFile>  
  
<Logger name="com.pingidentity.clientservices.product.pcv.absorb"  
level="[ DEBUG | INFO | WARN | ERROR ]" additivity="false" includeLocation="true"/>  
  <appender-ref ref="AbsorbPCV" />  
</Logger>
```

Detailed training on using Log4j in PingFederate can be found at:

<https://ping.force.com/Support/PingIdentityKnSearchHome?searchText=log4j>