Fast Fed

A new standard to simplify sso adoption

6 Months Ago

Another call for vote on Implementors Draft

Now

Implementors Draft

Up Next

Implementation

Why FastFed?

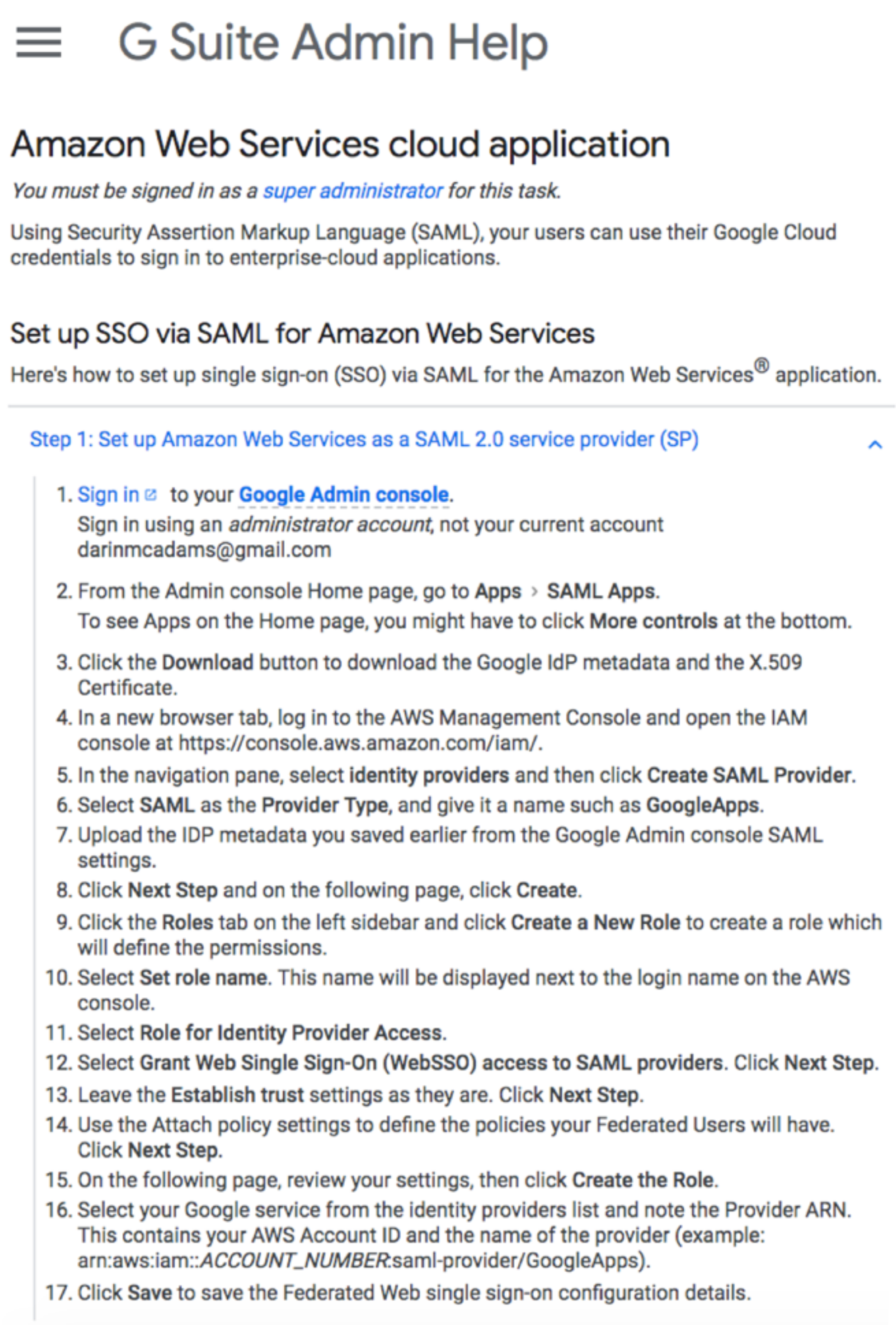
The Problem

Low adoption of federation in enterprise settings

Why?

It’s hard to configure.

44 STEPS



G Suite Admin Help

Amazon Web Services cloud application

You must be signed in as a super administrator for this task.

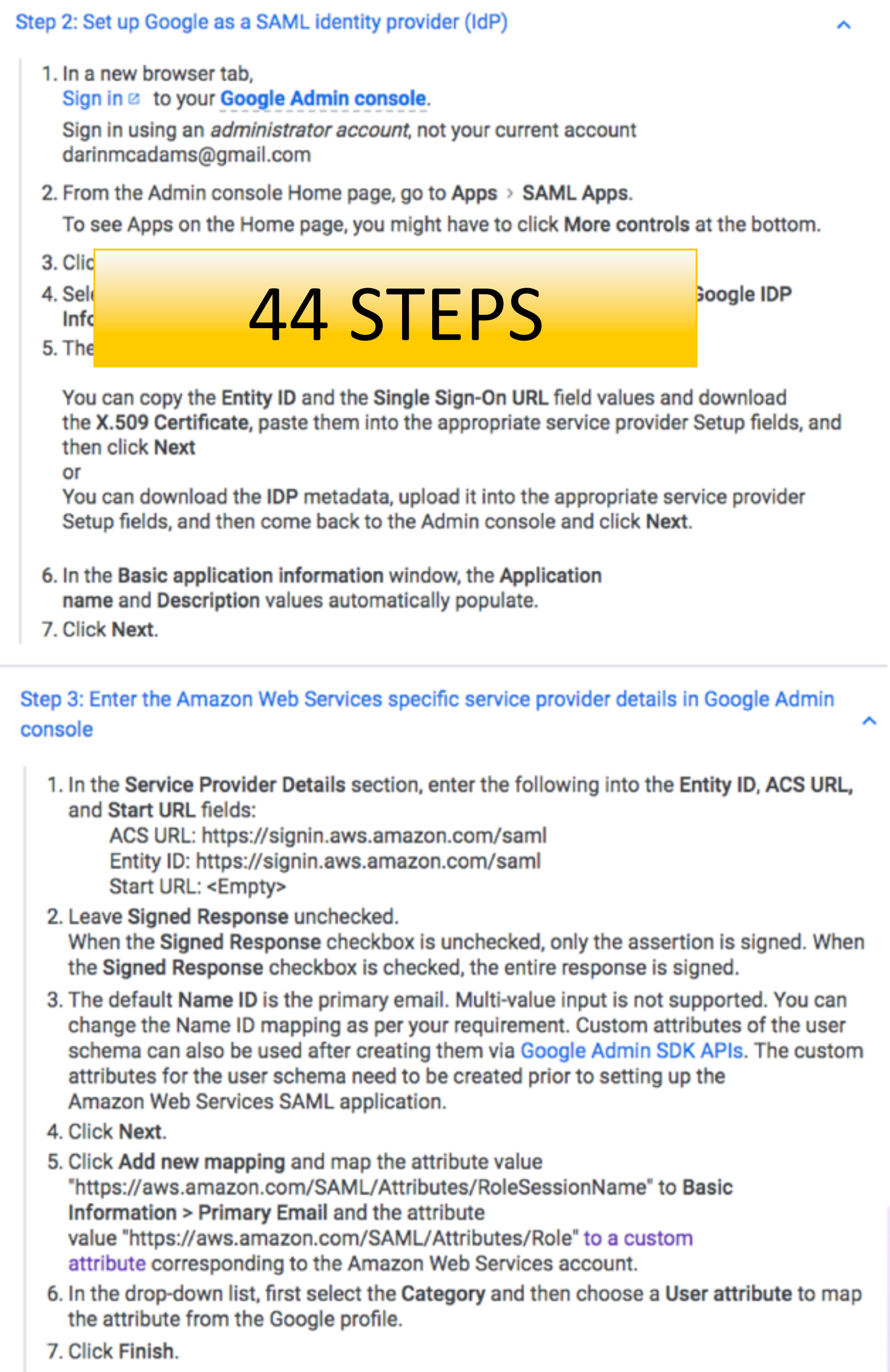
Using Security Assertion Markup Language (SAML), your users can use their Google Cloud credentials to sign in to enterprise-cloud applications.

Set up SSO via SAML for Amazon Web Services

Here's how to set up single sign-on (SSO) via SAML for the Amazon Web Services® application.

Step 1: Set up Amazon Web Services as a SAML 2.0 service provider (SP)

1. Sign in to your **Google Admin console**.
   Sign in using an *administrator account*, not your current account darinmcadams@gmail.com
2. From the Admin console Home page, go to **Apps** › **SAML Apps**.
   To see Apps on the Home page, you might have to click **More controls** at the bottom.
3. Click the **Download** button to download the Google IdP metadata and the X.509 Certificate.
4. In a new browser tab, log in to the AWS Management Console and open the IAM console at https://console.aws.amazon.com/iam/.
5. In the navigation pane, select **identity providers** and then click **Create SAML Provider**.
6. Select **SAML** as the **Provider Type**, and give it a name such as **GoogleApps**.
7. Upload the IDP metadata you saved earlier from the Google Admin console SAML settings.
8. Click **Next Step** and on the following page, click **Create**.
9. Click the **Roles** tab on the left sidebar and click **Create a New Role** to create a role which will define the permissions.
10. Select **Set role name**. This name will be displayed next to the login name on the AWS console.
11. Select **Role for Identity Provider Access**.
12. Select **Grant Web Single Sign-On (WebSSO) access to SAML providers**. Click **Next Step**.
13. Leave the **Establish trust** settings as they are. Click **Next Step**.
14. Use the Attach policy settings to define the policies your Federated Users will have. Click **Next Step**.
15. On the following page, review your settings, then click **Create the Role**.
16. Select your Google service from the identity providers list and note the Provider ARN. This contains your AWS Account ID and the name of the provider (example: arn:aws:iam::*ACCOUNT_NUMBER*:saml-provider/GoogleApps).
17. Click **Save** to save the Federated Web single sign-on configuration details.



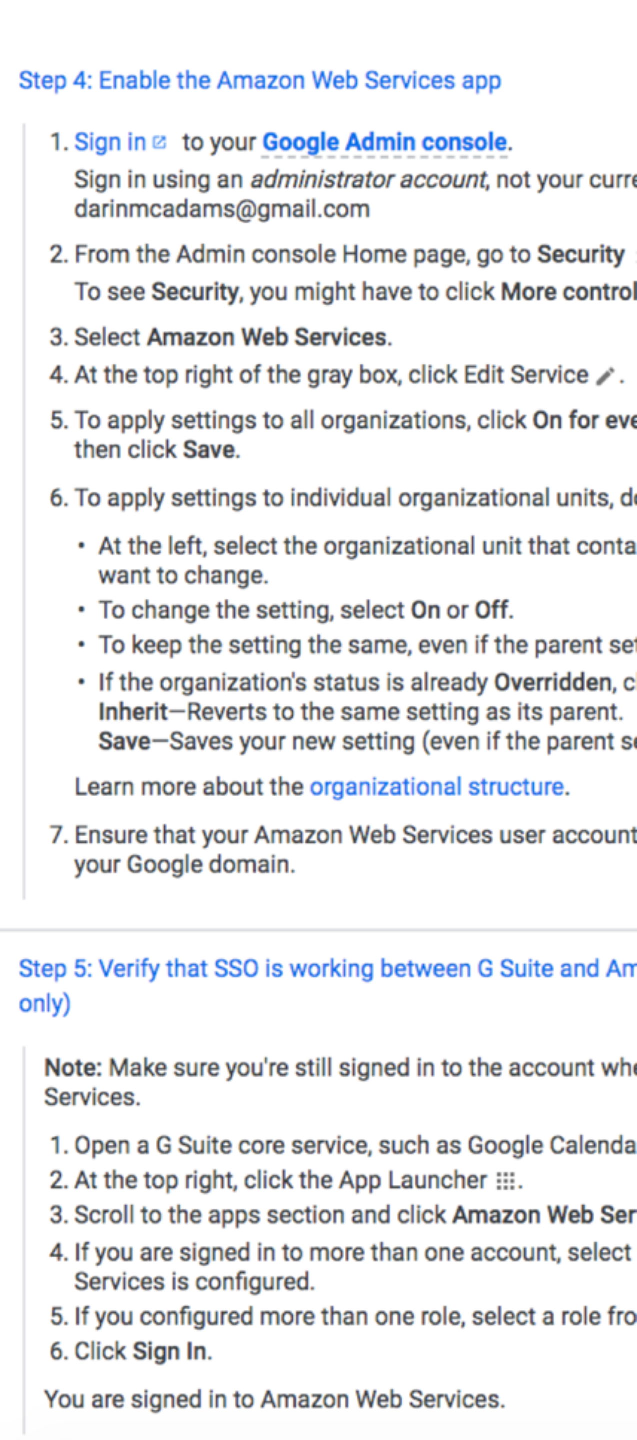
Step 2: Set up Google as a SAML identity provider (IdP)

1. In a new browser tab,
   Sign in to your **Google Admin console**.
   Sign in using an *administrator account*, not your current account darinmcadams@gmail.com
2. From the Admin console Home page, go to **Apps** › **SAML Apps**.
   To see Apps on the Home page, you might have to click **More controls** at the bottom.
3. Clic
4. Sel **Google IDP Info**
5. The

   You can copy the **Entity ID** and the **Single Sign-On URL** field values and download the **X.509 Certificate**, paste them into the appropriate service provider Setup fields, and then click **Next**
   or
   You can download the **IDP** metadata, upload it into the appropriate service provider Setup fields, and then come back to the Admin console and click **Next**.
6. In the **Basic application information** window, the **Application name** and **Description** values automatically populate.
7. Click **Next**.

Step 3: Enter the Amazon Web Services specific service provider details in Google Admin console

1. In the **Service Provider Details** section, enter the following into the **Entity ID**, **ACS URL**, and **Start URL** fields:
   ACS URL: https://signin.aws.amazon.com/saml
   Entity ID: https://signin.aws.amazon.com/saml
   Start URL: <Empty>
2. Leave **Signed Response** unchecked.
   When the **Signed Response** checkbox is unchecked, only the assertion is signed. When the **Signed Response** checkbox is checked, the entire response is signed.
3. The default **Name ID** is the primary email. Multi-value input is not supported. You can change the Name ID mapping as per your requirement. Custom attributes of the user schema can also be used after creating them via Google Admin SDK APIs. The custom attributes for the user schema need to be created prior to setting up the Amazon Web Services SAML application.
4. Click **Next**.
5. Click **Add new mapping** and map the attribute value "https://aws.amazon.com/SAML/Attributes/RoleSessionName" to **Basic Information > Primary Email** and the attribute value "https://aws.amazon.com/SAML/Attributes/Role" to a custom attribute corresponding to the Amazon Web Services account.
6. In the drop-down list, first select the **Category** and then choose a **User attribute** to map the attribute from the Google profile.
7. Click **Finish**.



Step 4: Enable the Amazon Web Services app

1. Sign in to your **Google Admin console**.
   Sign in using an *administrator account*, not your curre
   darinmcadams@gmail.com
2. From the Admin console Home page, go to **Security**
   To see **Security**, you might have to click **More control**
3. Select **Amazon Web Services**.
4. At the top right of the gray box, click Edit Service.
5. To apply settings to all organizations, click **On for eve** then click **Save**.
6. To apply settings to individual organizational units, d
   - At the left, select the organizational unit that conta want to change.
   - To change the setting, select **On** or **Off**.
   - To keep the setting the same, even if the parent se
   - If the organization's status is already **Overridden**, c
     Inherit—Reverts to the same setting as its parent.
     Save—Saves your new setting (even if the parent s

   Learn more about the organizational structure.
7. Ensure that your Amazon Web Services user account your Google domain.

Step 5: Verify that SSO is working between G Suite and Am only)

Note: Make sure you're still signed in to the account wh Services.

1. Open a G Suite core service, such as Google Calenda
2. At the top right, click the App Launcher.
3. Scroll to the apps section and click **Amazon Web Ser**
4. If you are signed in to more than one account, select Services is configured.
5. If you configured more than one role, select a role fro
6. Click **Sign In**.

You are signed in to Amazon Web Services.

Lots of Pain

System Administrator

Budget 1-2 weeks to configure SSO to each application

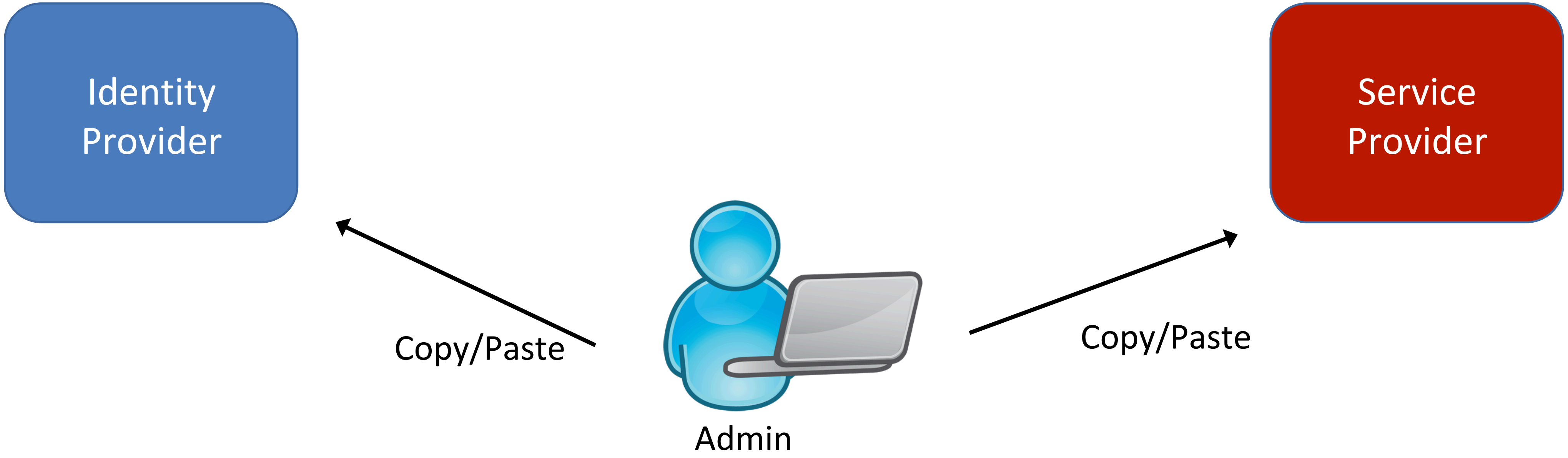
Identity Providers

Each app is different. Custom integration & documentation.

Service Providers

Getting into Identity Provider catalogs. Not self-service.
What should I be doing!?

Today’s Registration Experience



Identity Provider

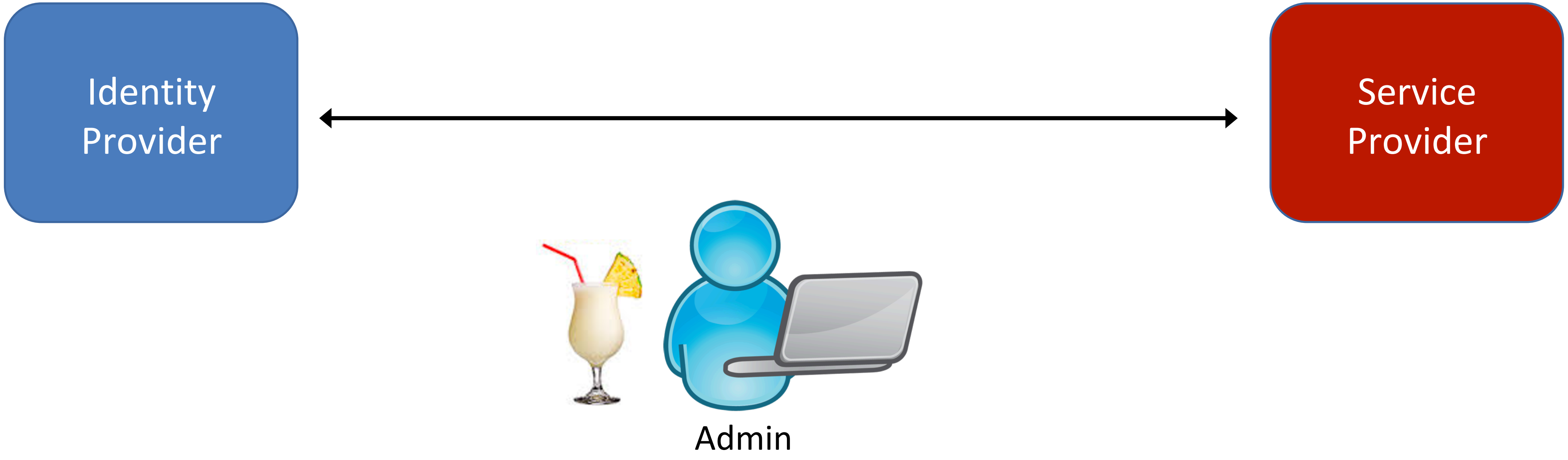
Service Provider

Copy/Paste

Copy/Paste

Admin

Desired Registration Experience



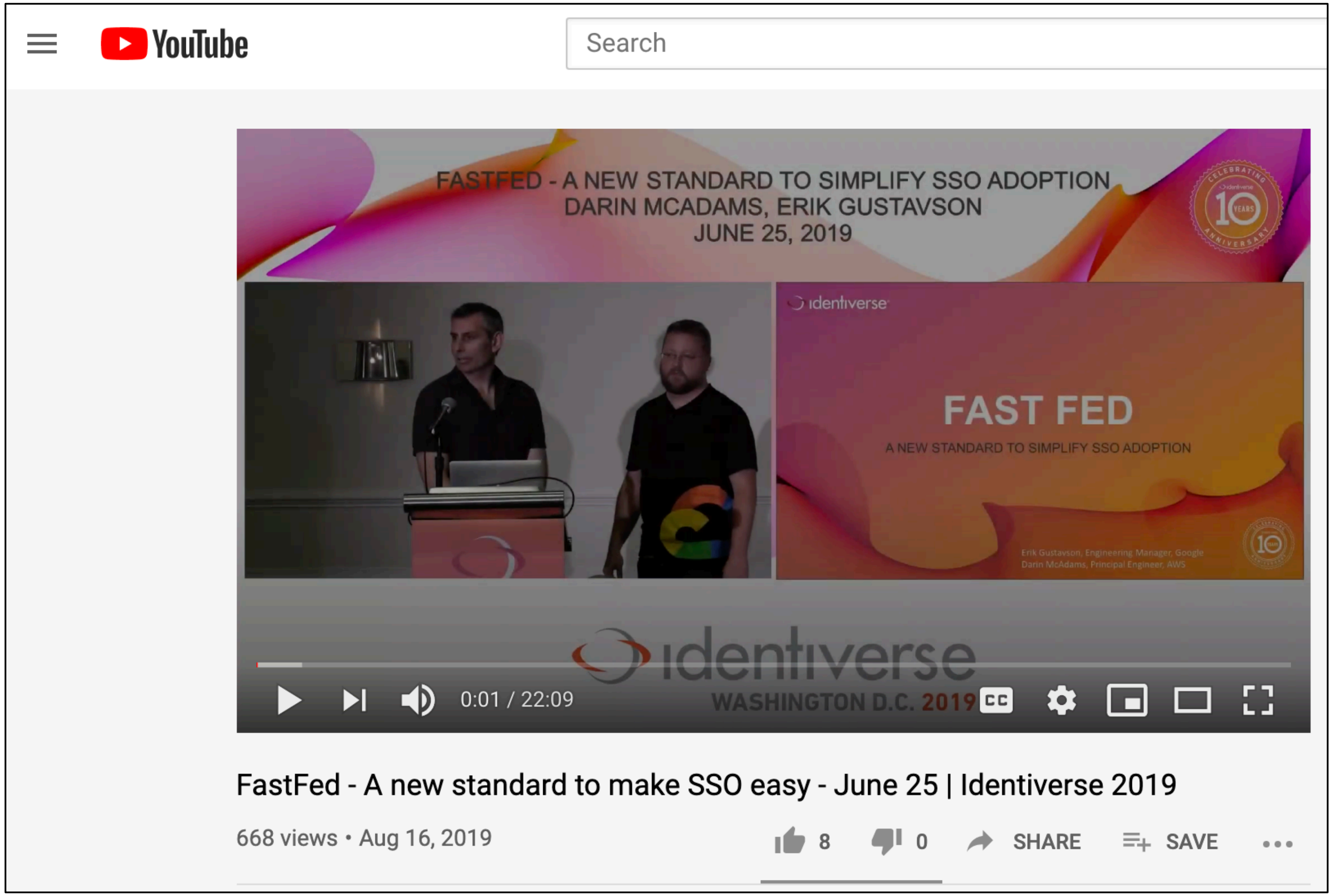
Identity Provider

Service Provider

Admin

Learn More

https://www.youtube.com/watch?v=ucQl5p6sa4A



FASTFED - A NEW STANDARD TO SIMPLIFY SSO ADOPTION
DARIN MCADAMS, ERIK GUSTAVSON
JUNE 25, 2019

FAST FED

A NEW STANDARD TO SIMPLIFY SSO ADOPTION

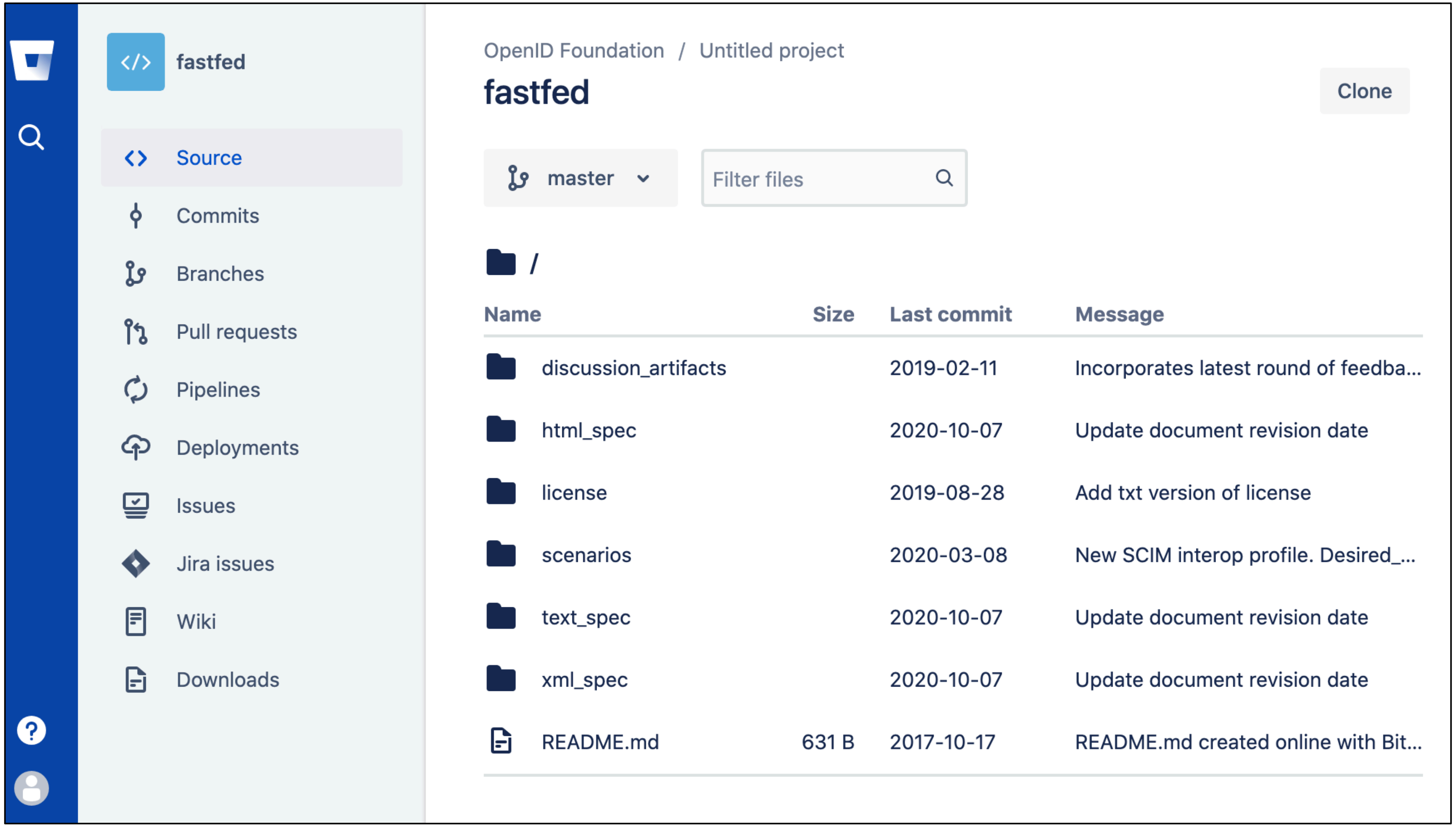
Erik Gustavson, Engineering Manager, Google
Darin McAdams, Principal Engineer, AWS

FastFed - A new standard to make SSO easy - June 25 | Identiverse 2019

668 views • Aug 16, 2019

Learn More

https://bitbucket.org/openid/fastfed/src/master/



OpenID Foundation / Untitled project

fastfed

/

Name	Size	Last commit	Message
discussion_artifacts		2019-02-11	Incorporates latest round of feedba...
html_spec		2020-10-07	Update document revision date
license		2019-08-28	Add txt version of license
scenarios		2020-03-08	New SCIM interop profile. Desired_...
text_spec		2020-10-07	Update document revision date
xml_spec		2020-10-07	Update document revision date
README.md	631 B	2017-10-17	README.md created online with Bit...

2 Common FAQs

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Question: Does this replace SAML, OIDC, or SCIM?

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No. It tackles the “44 steps” to setup these technologies.

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Question: What's the difference between FastFed and OpenID Federation?

2 Common FAQs

Question: Does this replace SAML, OIDC, or SCIM?

No. It tackles the "44 steps" to setup these technologies.
Also, subsets of each to implement.

Question: What's the difference between FastFed and OpenID Federation?

Solving different problems, but complementary.

Current Status

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We’re building

Iteratively, not big bang.

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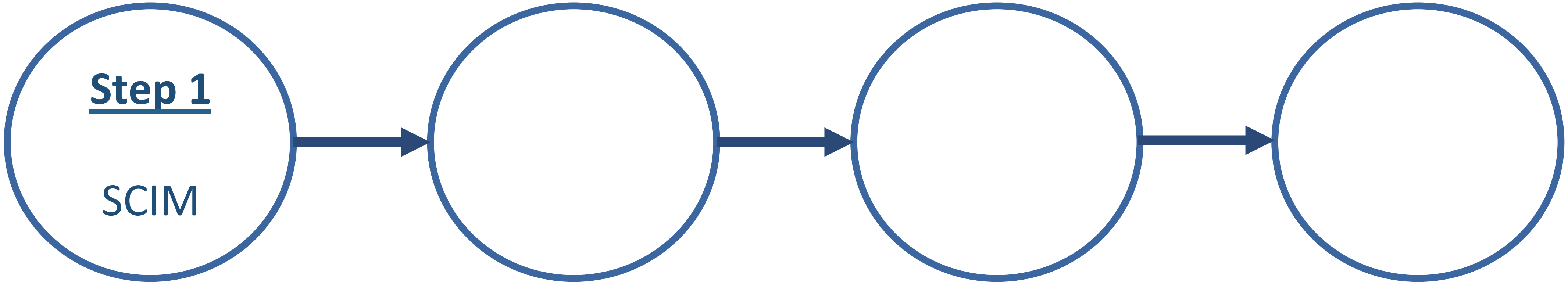
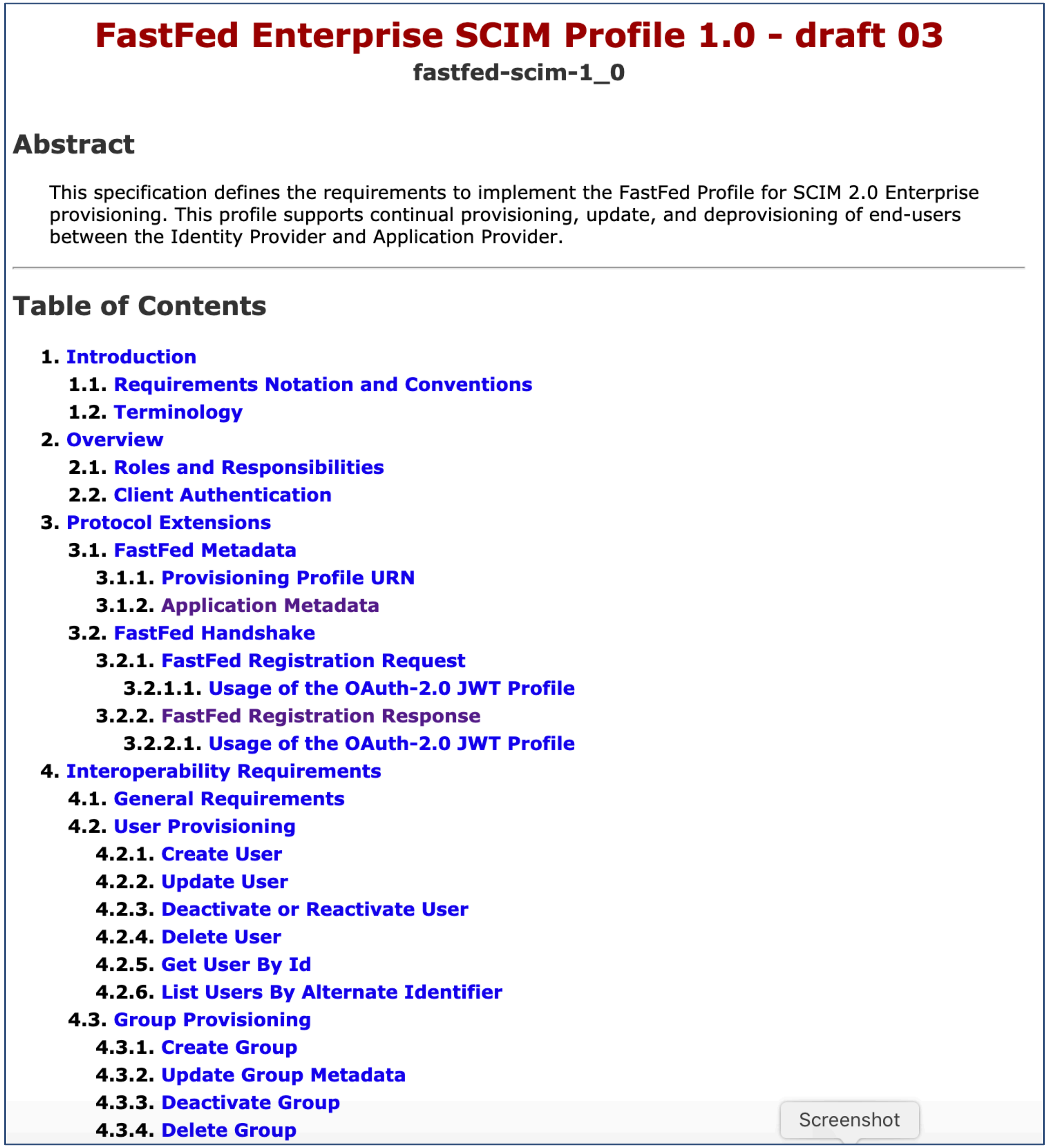


Step 1

SCIM



FastFed Enterprise SCIM Profile 1.0 - draft 03

fastfed-scim-1_0

Abstract

This specification defines the requirements to implement the FastFed Profile for SCIM 2.0 Enterprise provisioning. This profile supports continual provisioning, update, and deprovisioning of end-users between the Identity Provider and Application Provider.

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    - 4.3.3. Deactivate Group
    - 4.3.4. Delete Group

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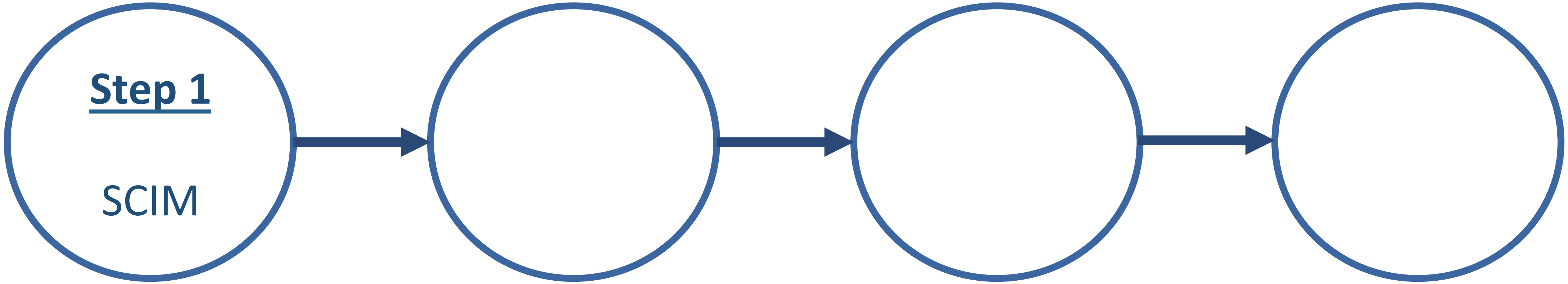

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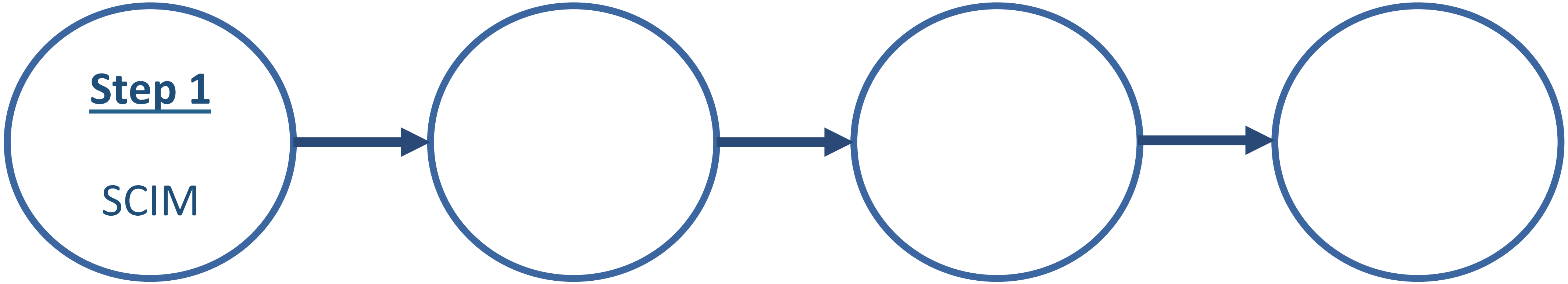

AWS
Azure
Okta
OneLogin
PingOne

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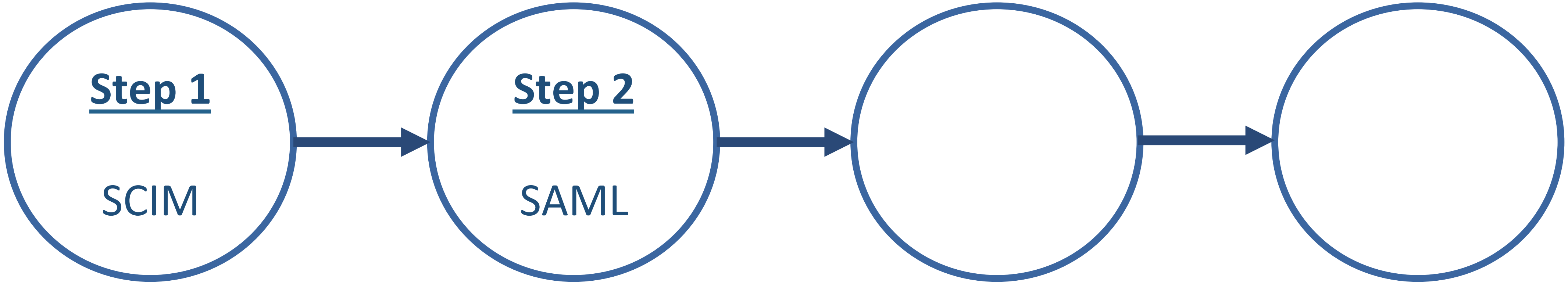

Step 1

SCIM

Step 2

SAML

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Azure
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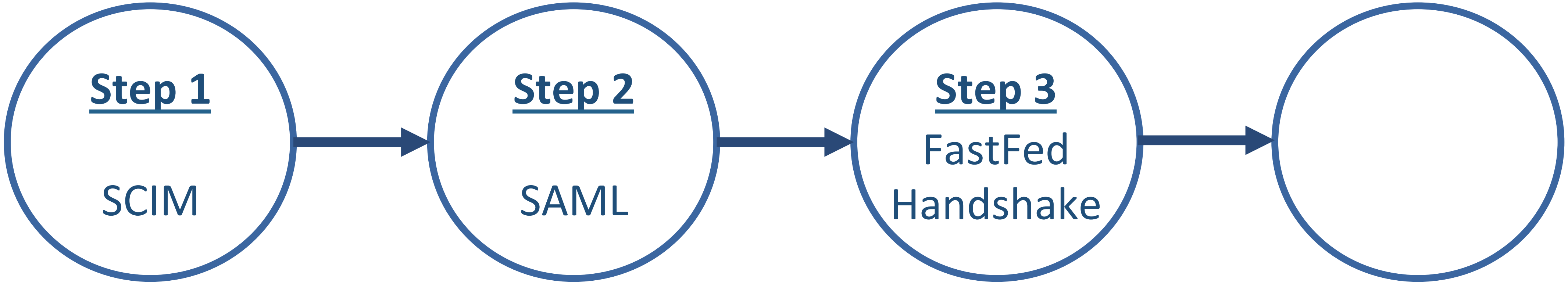

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SAML

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FastFed Handshake

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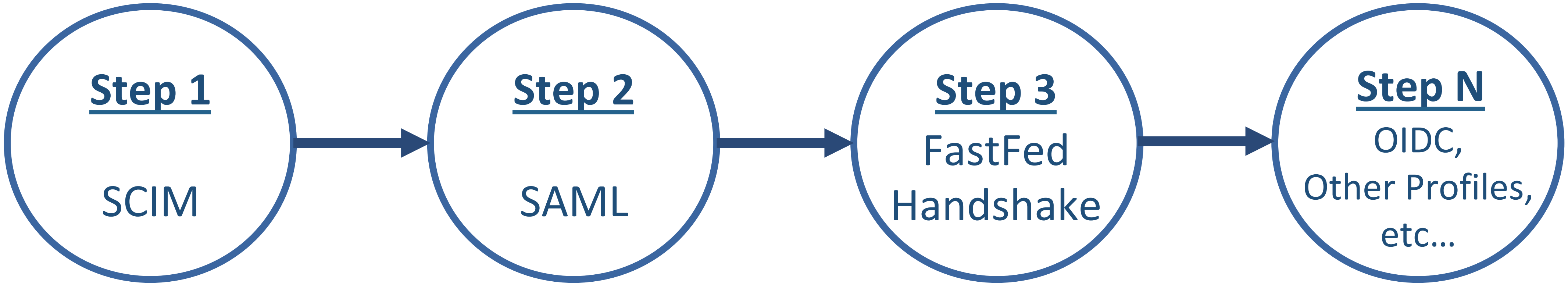


Step 1

SCIM

Step 2

SAML

Step 3

FastFed Handshake

Step N

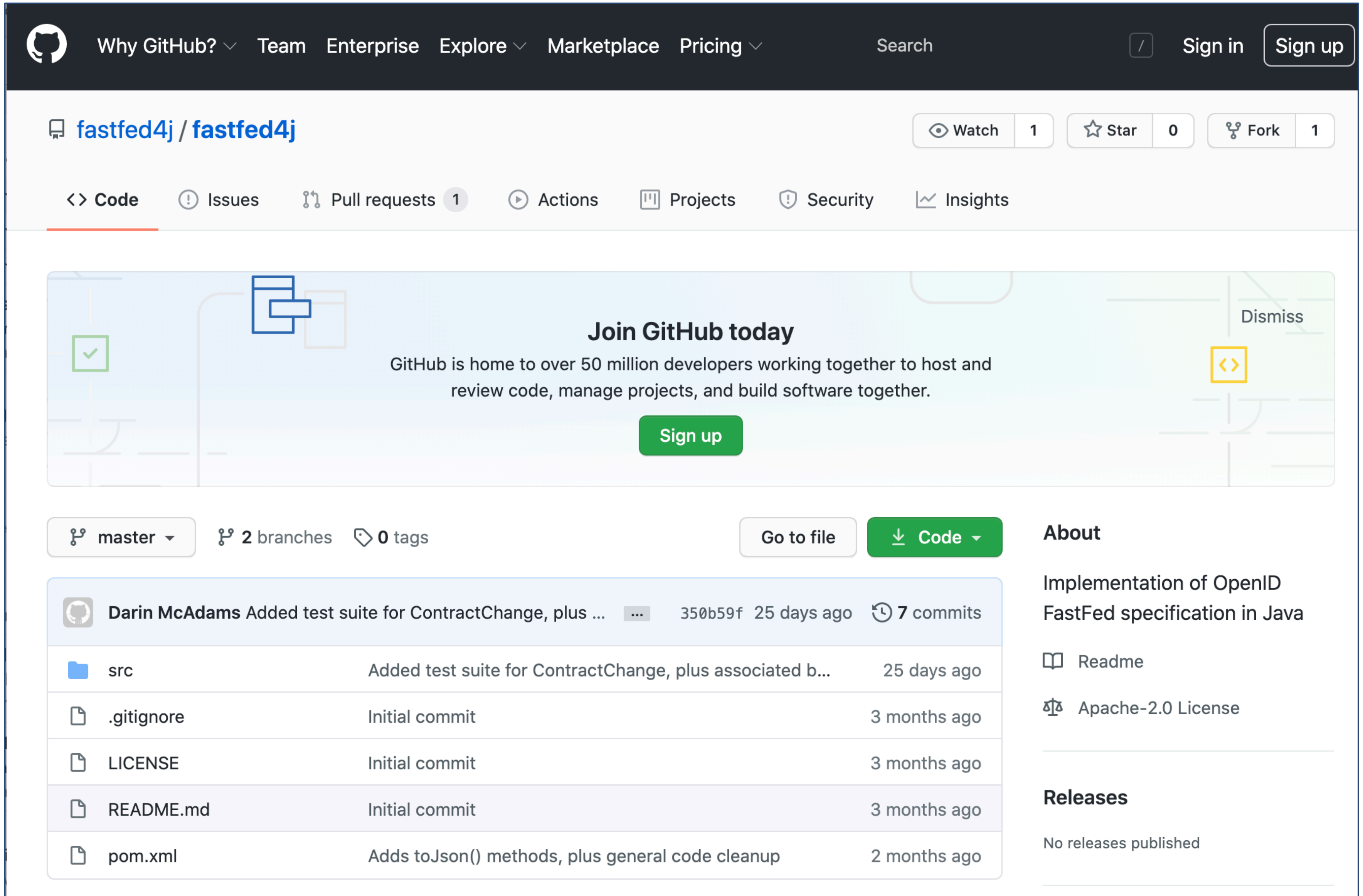
OIDC,
Other Profiles,
etc…

AWS
Azure
Okta
OneLogin
PingOne

Open Source

Open Source

fastfed4j



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pom.xml	Adds toJson() methods, plus general code cleanup	2 months ago

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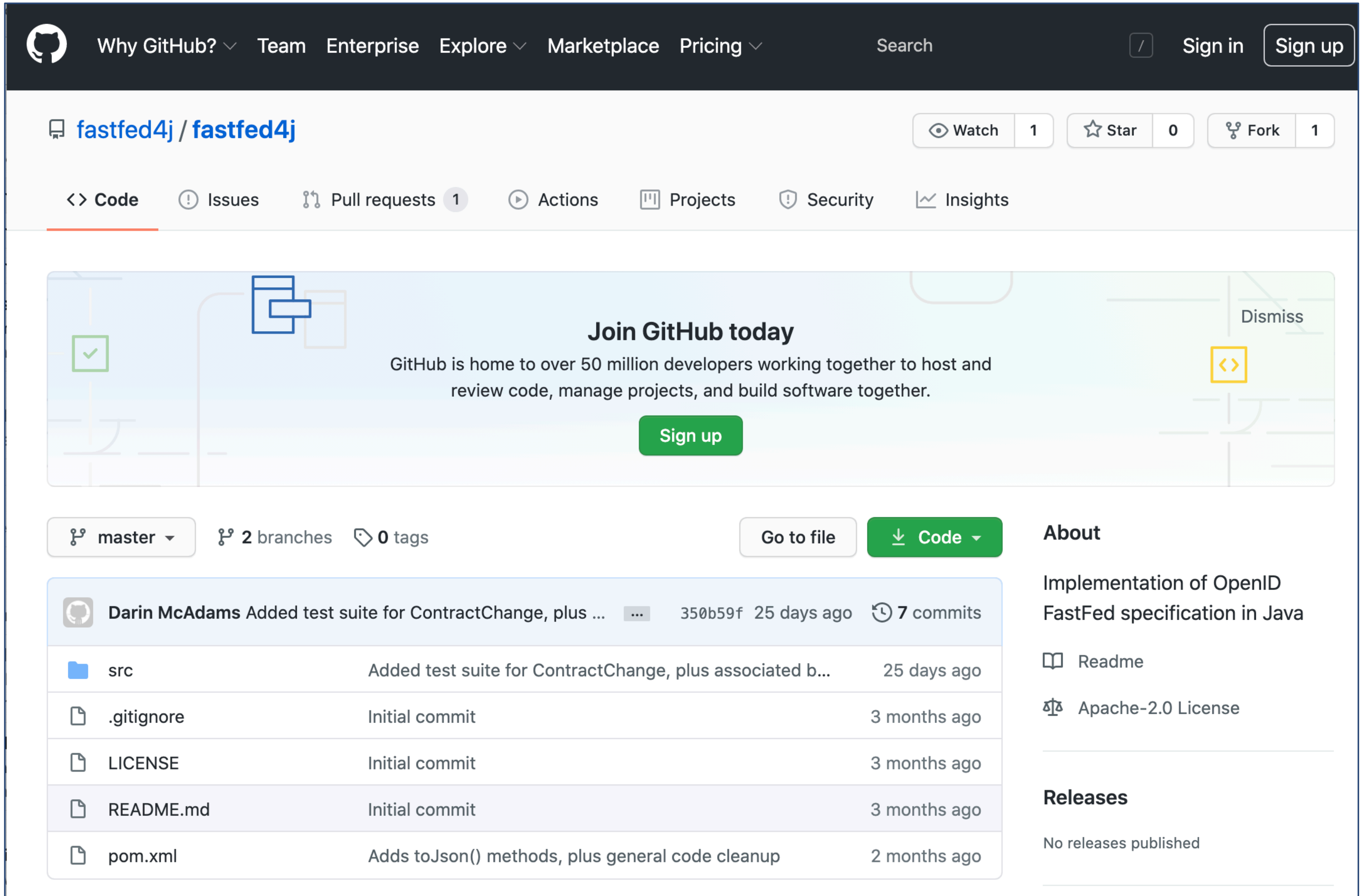
~80% Complete
12K lines of code (so far)



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