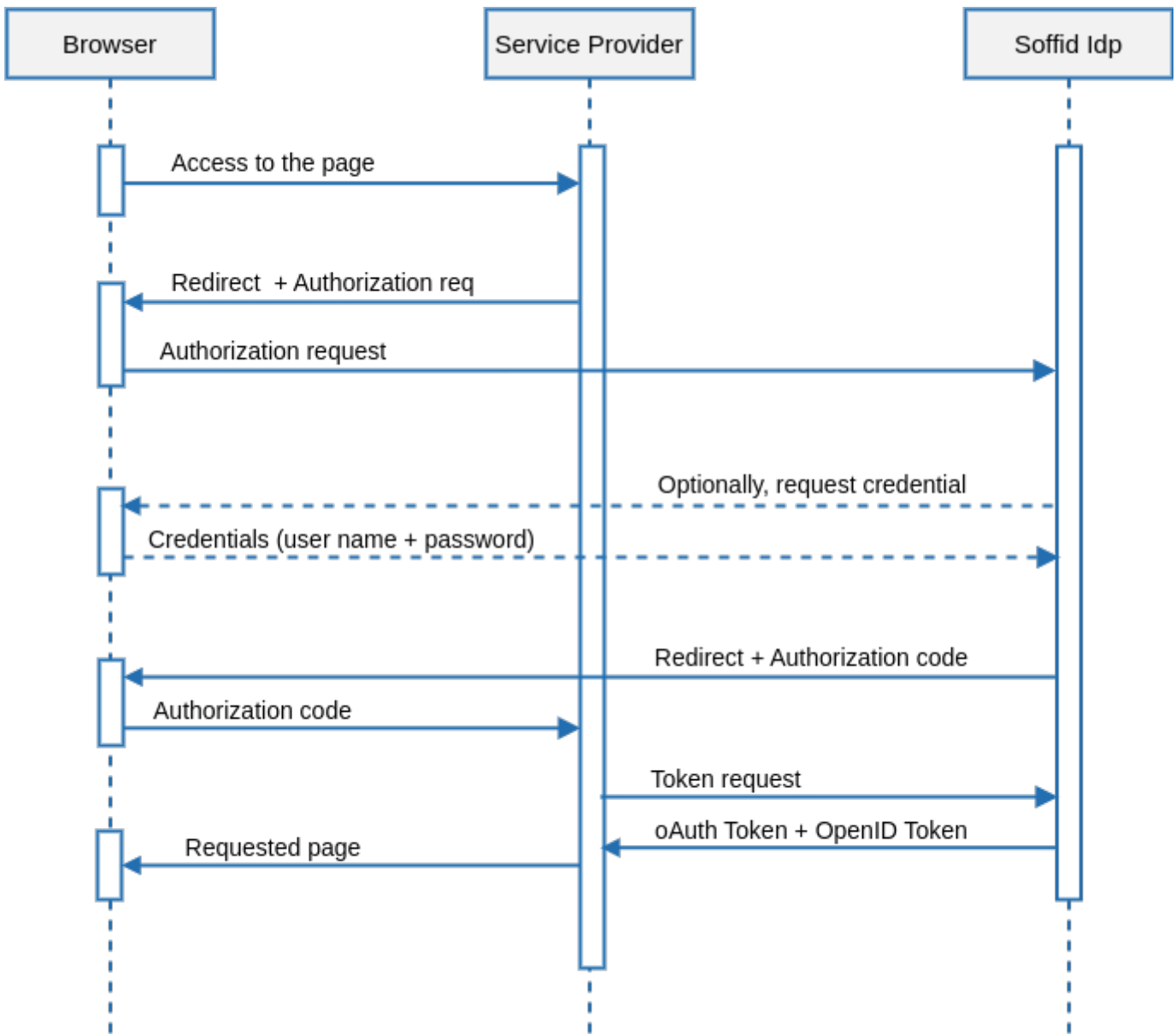

OpenID-Connect architecture

Introduction

OpenID is based on the well known protocol. It is easier to implement and deploy, as it does not require digital signature or encryption. The drawback is that it is significantly less secure. For example, the single logout protocol is not finished yet.

Single Log-in

The usual log-in process follows the next UML diagram:



Description

1. User's browser tries to get a web page from the service providers
2. . The service provider wants to authenticate the user identity. To get this, redirects the user to the identity provider, including the returning URL.
3. The authorization request is received by the identity provider. At this point, the identity provider verifies it is issued by an authorized service provider.

Next, the identity providers checks if the user browser does have an active SSO session. In such a case, skip to step 6.

4. The identity providers ask for credentials to the user.

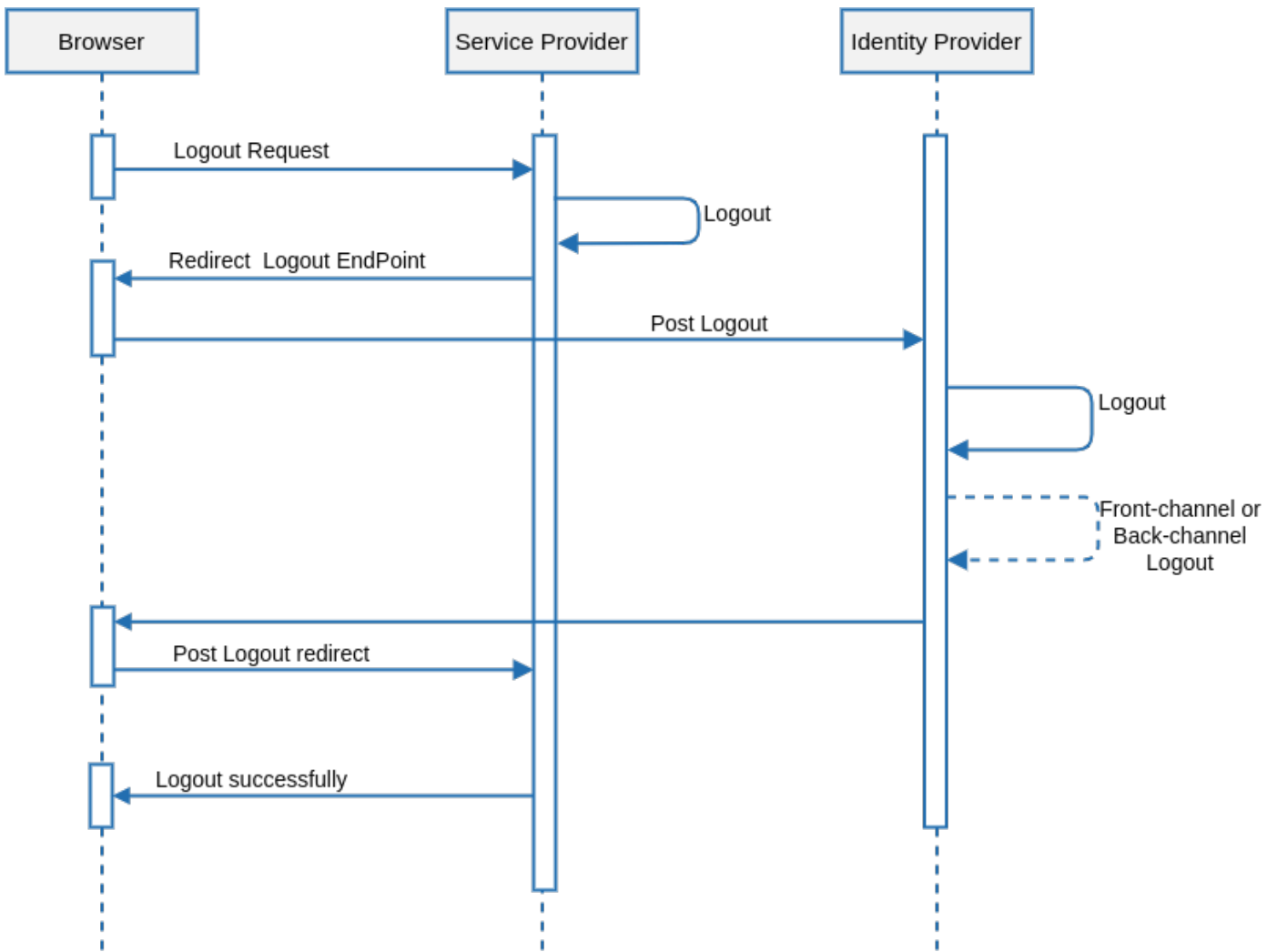
5. The user enters its credentials. At this time, the identity provider verifies the user name and password are correct, and creates a new SSO session.
6. The identity provider redirects the user to the service provider, sending an authorization code.
7. The service provider connects to the identity provider, using its client id and client secret, as well as the authorization code.
8. The identity provider verifies the authorization code and generates two tokens: the oAuth token and the OpenID token. The Auth token is a bare token that can be used by the service provider to perform additional requests.

The Openid token contains some user attributes. The included attributes and its value can vary depending on the service provider that will receive it. This token can be signed using JWT standard.

9. The service provider receives the both tokens, parsing the JSON document contained in the JWT OpenID token.

Single Log-out

One generic logout process diagram:



Description

1. The user requests to log out the application.
2. Logout in the Service Provider, for instance, delete cookies.
3. Redirect to the Identity Provider logout endpoint
4. Logout in the Identity Provider, for instance, delete cookies.
5. The Identity Provider can trigger logout from other Service Providers using Front-channel or Back-channel.
6. The Identity Provider redirects to the Service Provider EndPoint
7. The Service Provider returns successfully logout