Openid-connect to SAML interoperability

Introduction

OpenID-Connect has a clear design suitable for both frontend and backend.

SAML has a clear design for the frontend, but the backend usage is harder as the security in SAML cannot be placed at transport layer. Instead, in must be placed at document level. Additionally, it requires intensive use of cryptographic algorithms for signature and encryption.

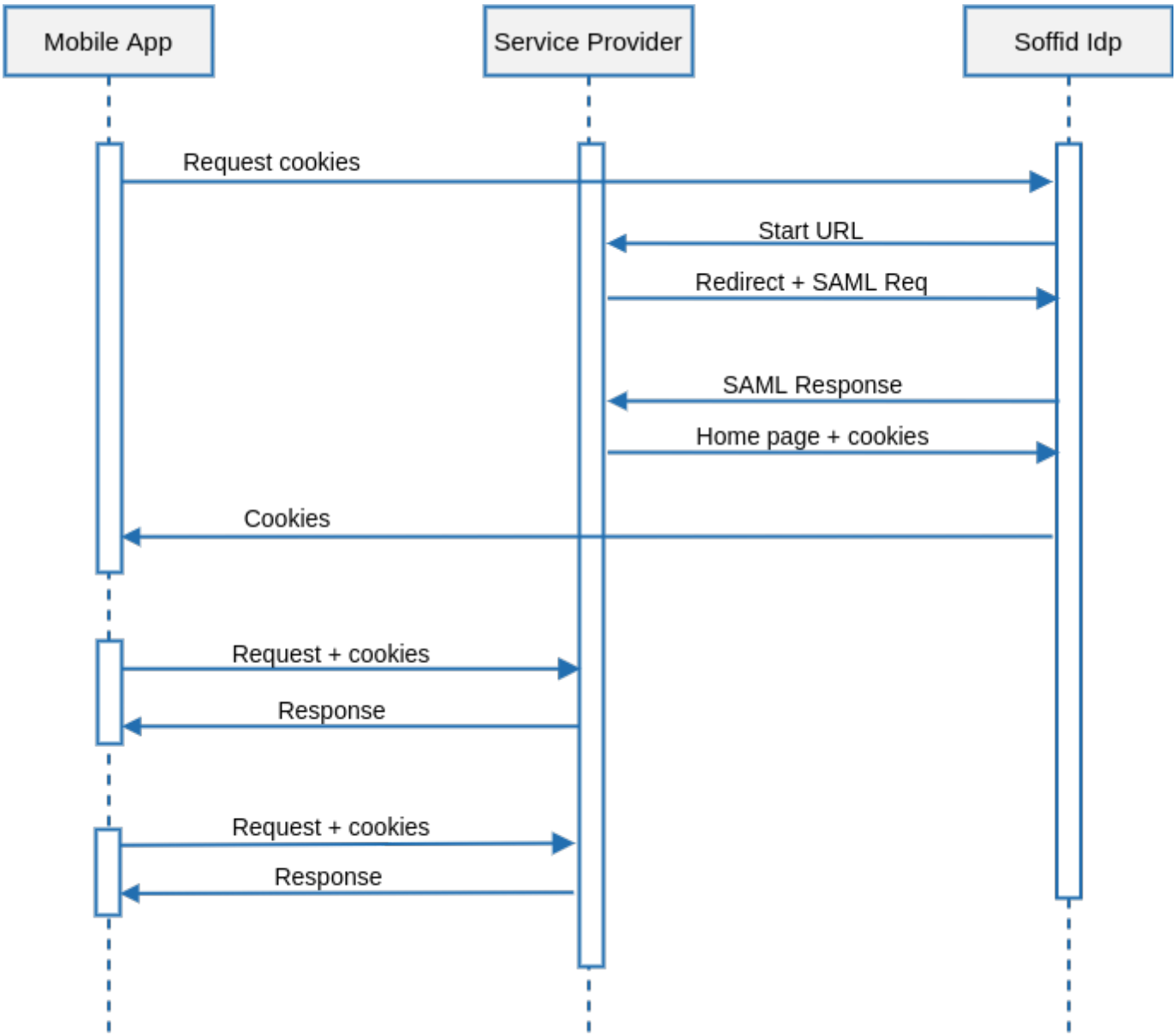
That’s why some applications put a SAML frontend protection for both the frontend and relay on the session cookies generated by the fronted for backend access.

The problem arises when one service provider needs to invoke some services from a SAML enabled application that does not support or implement WS-Security.

To solve it, **Soffid Identity Provide**r provides a service to get the session cookies required to access to a SAML application.

Data flow

The rest service **/userinfo/impersonate?url=….** will do the job, and will return the cookies to use to act upon the target application impersonating the current user.


Mobile App
Service Provider
Soffid Idp
Request cookies
Start URL
Redirect + SAML Req
SAML Response
Home page + cookies
Cookies
Request + cookies
Response
Request + cookies
Response

Request

```
POST https://<YOUR_SERVER>:2443/userinfo/impersonate?url=http://targetapplication/
Accept: application/json
Content-type: application/x-www-form-urlencoded
Authorization: Basic dGVzdDp0ZXN0
[
    {
       "path":"/",
       "domain":"samltest.id",
       "name":"_shibsession_64656661756c7468747470733a2f2f73616d6c746573742e69642f73616d6c2f7370",
       "value":"_fa49874951dd05c18a0f68642c0736e9"
    },
   {
      "path":"/",
      "domain":"samltest.id",

"name":"_opensaml_req_ss%3Amem%3A88b0af3e1ff47c911257490bc1a5749dfda1670948a563cec2fdf9e8a799f2c4",
      "value":""
   }
]
```

Parameters

- **URL**: is the access URL for the target application.
- **Authorization**: contains the oauth token.

Response

The response contains the list of cookies to send to the target application.


```
[
    {
       "path":"/",
       "domain":"samltest.id",
       "name":"_shibsession_64656661756c7468747470733a2f2f73616d6c746573742e69642f73616d6c2f7370",
       "value":"_fa49874951dd05c18a0f68642c0736e9"
    },
   {
      "path":"/",
      "domain":"samltest.id",

"name":"_opensaml_req_ss%3Amem%3A88b0af3e1ff47c911257490bc1a5749dfda1670948a563cec2fdf9e8a799f2c4",
      "value":""
   }
]
```


Request

Once the application has got the list of cookies, it can invoke the target application URL

```
POST https://targetapplication/api/service1
Accept: application/json
Content-type: application/json
Cookie: cookie1=value1
```

> As security measures, the impersonation profile must be enabled, and the source application must be entitled to use it against the target application

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