

Oauth Issue Summary

Long story short

According to documentation at <http://docs.smarthealthit.org/authorization/>, the oauth flow works as expected on app-server (fhir-starter).

The problems appears on growth-chart app.

The "authorize" request include the launch identifier and the app is correctly authorized.

Despite this, when the access token is requested, the response doesn't contains the "patient" parameter.

Because of that the growth-chart app cannot retrieves the patient data from api-server, therefore throws an error.

It is unknown the reason why the "patient" parameter is not defined.

Below there's a complete dump of the communication between applications.

It start from the first "authorize" app-server request and finish with the "access-token" response to the growth-chart app.

App server

1st authorize request

GET /openid-connect-server/authorize HTTP/1.1

Host: ec2-35-162-90-131.us-west-2.compute.amazonaws.com:8080

Referer: <http://ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080/fhir-starter/>

Query Parameters:

client_id : fhir_starter

response_type : code

scope : smart/orchestrate_launch user/*.*

redirect_uri : <http://ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080/fhir-starter/>

state : 4228bab2-0bb2-72ef-78a7-a02dfea2a24b

aud : <http://ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080/api-server>

1st authorize response

HTTP/1.1 302 Found

Location: <http://ec2-35-162-90-131.us-west-2.compute.amazonaws.com:8080/openid-connect-server/login>

After login...

2nd authorize request

POST /openid-connect-server/authorize HTTP/1.1

Host: ec2-35-162-90-131.us-west-2.compute.amazonaws.com:8080

Referer: http://ec2-35-162-90-131.us-west-2.compute.amazonaws.com:8080/openid-connect-server/authorize?client_id=fhir_starter&response_type=code&scope=smart%2Forchestrate_launch%20

token_type : "Bearer"

Patient select request

GET /api-server/Patient/613876 HTTP/1.1

Host: ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080

Accept: application/json

X-Requested-With: XMLHttpRequest

Authorization: Bearer eyJhbGciOiJSUzI1NiJ9.eyJleHAiOjE0ODM0ODU5OTIsImF1ZCI6W...

Content-Type: application/json

Referer: <http://ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080/fhir-starter/>

Patient select response

HTTP/1.1 200 OK

Content-Type: application/json+fhir;charset=utf-8

Body:

<patient resource>

Select app and launch

GET /growth-chart/launch.html HTTP/1.1

Host: ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080

Referer: <http://ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080/fhir-starter/launch.html?Tkvpd9Dka4Rstut11CWkcgW2BiePh3w1>

Query Parameters:

iss : <http://ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080/api-server>

launch : 29

Growth Chart App

Authorize request

GET /openid-connect-server/authorize HTTP/1.1

Host: ec2-35-162-90-131.us-west-2.compute.amazonaws.com:8080

Referer: <http://ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080/growth-chart/launch.html?iss=http%3A%2F%2Fec2-35-164-199-202.us-west-2.compute.amazonaws.com%3A8080%2Fapi-server&launch=29>

Cookie: JSESSIONID=00C8CB1023B233E2D548A0C2F3607936

Query Parameters:

client_id : growth_chart

response_type : code

scope : patient/*.read launch

redirect_uri : <http://ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080/growth-chart/>

state : 27f414e8-b4aa-af7f-4b90-1d5b99f5ddc0

aud : <http://ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080/api-server>

launch : 29

Authorize response

HTTP/1.1 200 OK

Token request

POST /openid-connect-server/token HTTP/1.1

Host: ec2-35-162-90-131.us-west-2.compute.amazonaws.com:8080

Accept: application/json, text/javascript, */*; q=0.01

Referer: <http://ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080/growth-chart/>

code : 2rEPgS

grant_type : authorization_code

redirect_uri : <http://ec2-35-164-199-202.us-west-2.compute.amazonaws.com:8080/growth-chart/>

client_id : growth_chart

Token response

HTTP/1.1 200 OK

Body:

access_token : eyJhbGciOiJIUzI1NiJ9.eyJleHAiOjE0ODM1NzI0NjQsImF1ZCI6WyJncm...

expires_in : 3599

scope : launch patient/*.read

token_type : Bearer