

OWASP Portland Chapter

Welcome to OWASP Portland's monthly chapter meeting!



Twitter: @PortlandOWASP

Website: pdxowasp.org

Meetup: https://www.meetup.com/OWASP-Portland-Chapter/

Slack: owasp.slack.com #chapter-pdx



Next Chapter Meeting: Aug

Graph Theory for Security

Presented by Timothy Morgan

August 13th 2019 from 6–8pm

Hosted by: Simple 120 SE Clay St, Floor 2

Follow the Portland OWASP Meetup, Twitter, or email list for further details!



Project Focus: Amass

In-depth DNS Enumeration and Network Mapping!

Information Gathering Techniques Used

DNS, Scraping, Certificates, APIs, Web Archives

https://www.owasp.org/index.php/OWASP_Amass_Project

https://github.com/OWASP/Amass



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 Chapter or Project You Care About

https://www.owasp.org/index.php/Membership



THE EASY (AND SECURE!) WAY TO BUILD JAVASCRIPT WEB APPS WITH OAUTH 2 & OIDC



Introduction

- Jake Feasel
- Developer Experience lead engineer at ForgeRock

- AppAuthHelper: https://www.npmjs.com/package/appauthhelper
- Wrapper for AppAuth for JS to assist with the full OAuth2 / OIDC token life-cycle.

OIDCSessionCheck: https://www.npmjs.com/package/oidcsessioncheck

JavaScript library to assist with binding sessions between an OIDC OP and RP



Context

- JavaScript or "Single Page" applications
- OAuth 2 client / OIDC relying party
- REST calls to Resource Server Endpoints
- Client app driven by the resource owner





Best Current Practices

Important security concerns for web clients



Which Grant to Use: Implicit or Authorization Code?

. https://tools.ietf.org/html/draft-ietf-oauth-security-topics-12#section-3.1.2

 The implicit grant (response type "token") ... [is] vulnerable to access token leakage and access token replay...

• [C]lients SHOULD NOT use the implicit grant (response type "token")...

Clients SHOULD instead use the response type "code" (aka authorization code grant type)



PKCE for non-Mobile?

https://tools.ietf.org/html/draft-ietf-oauth-security-topics-12#section-3.1.1

 Clients utilizing the authorization grant type MUST use PKCE [RFC7636] in order to (with the help of the authorization server) detect and prevent attempts to inject (replay) authorization codes into the authorization response.

 Note: although PKCE so far was recommended as a mechanism to protect native apps, this advice applies to all kinds of OAuth clients, including web applications.



Renewing tokens

```
• HTTP/1.1 401 Unauthorized
```

```
    WWW-Authenticate: Bearer realm="example",
```

```
error="invalid_token",
```

error_description="The access token expired"





Use a Refresh Token?

- Server side Clients Use These
- Why Not Front-End Apps?

- Refresh Tokens Live For a Long Time
- Less Is More
- You May Not Need It



Silent Authz Code Grant in iFrames

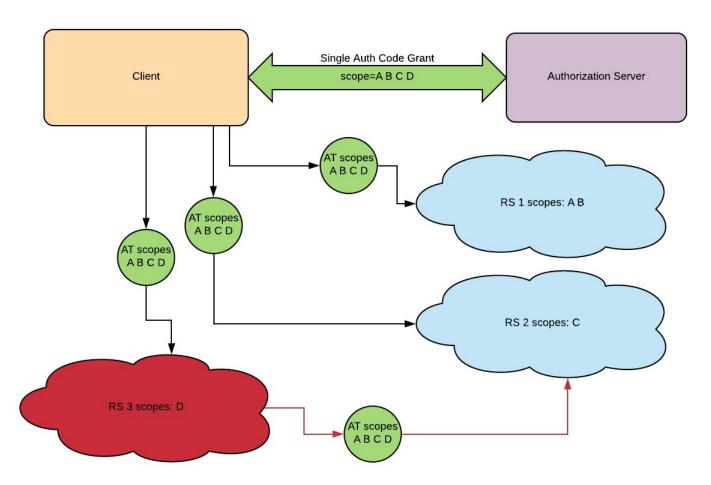
- Established session in the AS
- Scope consent has to have been saved
- Access token lifetime shorter than the AS session lifetime.
- Access-token-bearing requests in the same browser as the AS session cookie.
- Include prompt=none in the call to the authorization endpoint

Make the request in a hidden iFrame



Access Token Leakage

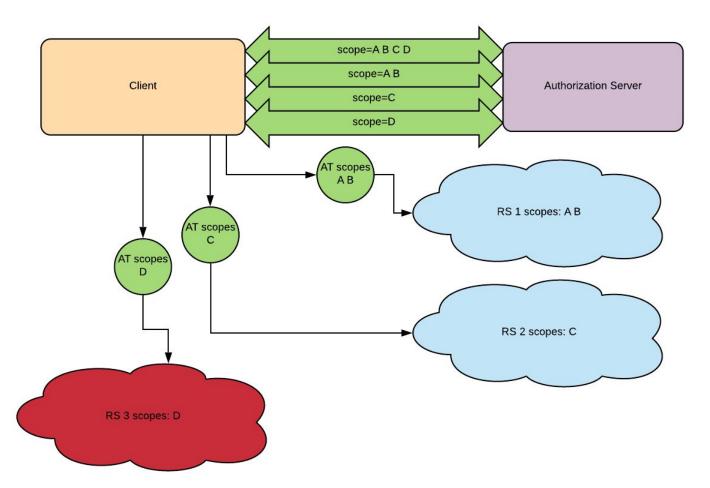
. https://tools.ietf.org/html/draft-ietf-oauth-security-topics-12#section-4.8







Counter-measure for token leakage







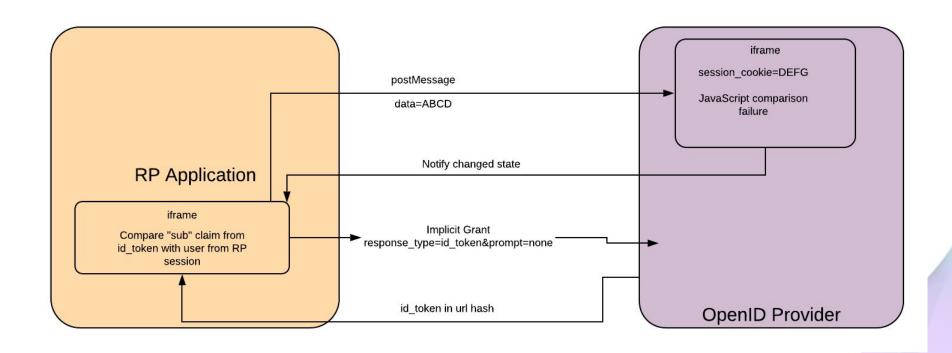
IDP-Initiated Logout

https://openid.net/specs/openid-connect-session-1_0.html

To do so, it is possible to repeat the Authentication Request with prompt=none. However, this causes network traffic and this is problematic on the mobile devices that are becoming increasingly popular. Therefore, once the session is established with the Authentication Request and Response, it is desirable to be able to check the login status at the OP without causing network traffic by polling a hidden OP iframe from an RP iframe with an origin restricted postMessage as follows....



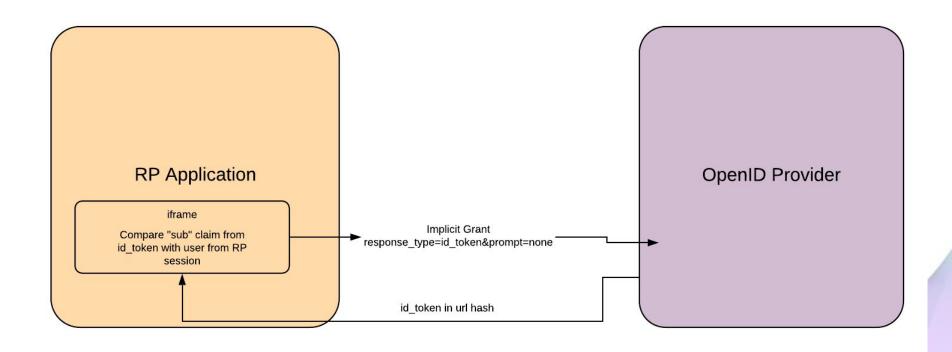
OIDC Spec Session Monitoring Proposal







OIDC Session Monitoring Simplified









Libraries to make it easy

Tools you can use today



OIDCSessionCheck

https://www.npmjs.com/package/oidcsession var sessionCheck = new SessionCheck({ clientId: "myClientId", opUrl: "https://login.sample.forgeops.com/oauth2/authorize", subject: claims.sub, invalidSessionHandler: function () { logout(); cooldownPeriod: 5 }); // check with every captured event document.addEventListener("click", function () { sessionCheck.triggerSessionCheck(); }); document.addEventListener("keypress", function () { sessionCheck.triggerSessionCheck();

AppAuth



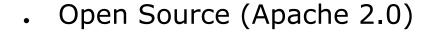
AppAuth

Native App SDK for OAuth 2.0 and OpenID Connect implementing modern best practices

AppAuth for Android

AppAuth for iOS and macOS

AppAuth for JS



- Backed by Google
- PKCE
- JS version is generic (not just for browser apps)





AppAuthHelper

https://www.npmjs.com/package/appauthhelper

```
AppAuthHelper.init({
    clientId: "appAuthClient",
    authorizationEndpoint: "https://default.iam.example.com/am/oauth2/authorize",
    tokenEndpoint: "https://default.iam.example.com/am/oauth2/access token",
    revocationEndpoint: "https://default.iam.example.com/am/oauth2/token/revoke",
    endSessionEndpoint: "https://default.iam.example.com/am/oauth2/endSession",
    resourceServers: {
        "https://default.iam.example.com/am/oauth2/userinfo": "profile",
        "https://default.iam.example.com/rs": "custom scope1 custom scope2"
    tokensAvailableHandler: function (claims) {
        // Start making RS requests
        // fetch("https://default.iam.example.com/am/oauth2/userinfo").then(...)
AppAuthHelper.getTokens();
```



RS requests are easy, right?

```
var deferred = $.ajax({
    url: "https://rs.example.com/me",
    headers: {
        "Authorization": "Bearer " + getAccessToken()
    }
}
```



What about expired tokens?

```
var deferred = $.Deferred(),
  requestDetails = function (token) {
     return {
       url: "https://rs.example.com/me",
       headers: {
          "Authorization": "Bearer " + getAccessToken()
$.ajax(requestDetails()).then(deferred.resolve, function (jqXHR) {
  if (getAuthHeaderError(jqXHR) === "invalid_token") {
     refreshAccessToken().then(function () {
       $.ajax(requestDetails())
          .then(deferred.resolve, deferred.reject);
     }, deferred.reject);
  } else {
     deferred.reject(jqXHR);
```

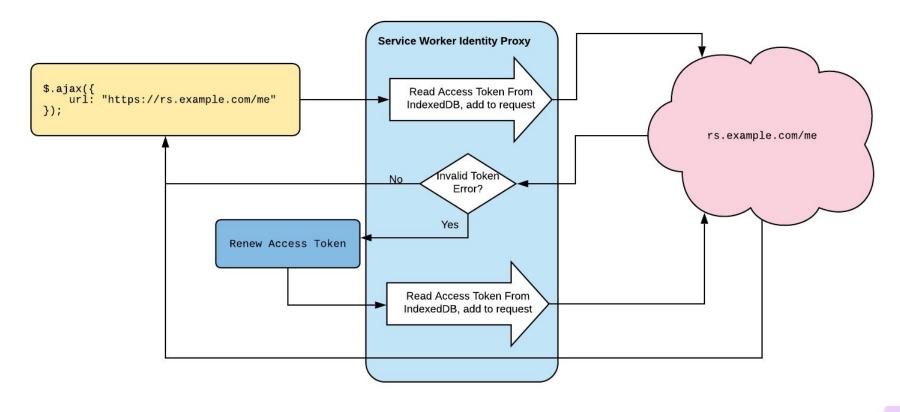
What if it wasn't your problem?

```
var deferred = $.ajax({url: "https://rs.example.com/me"});
```





Service Worker as an Identity Proxy





```
resourceServers: {
    "https://default.iam.example.com/am/oauth2/userinfo": "profile email",
    "https://default.iam.example.com/me": "custom_scope1 custom_scope2"
},
```



Service Worker Code Sample

```
self.addEventListener("fetch", (event) => {
   if (self.appAuthConfig &&
        typeof self.appAuthConfig.resourceServers === "object" &&
       Object.keys(self.appAuthConfig.resourceServers).length) {
        var resourceServer = Object.keys(self.appAuthConfig.resourceServers)
            .filter((rs) => event.request.url.indexOf(rs) === 0)[0];
       if (resourceServer) {
            event.respondWith(new Promise((resolve, reject) => {
               self.addAccessTokenToRequest(event.request, resourceServer)
                    .then((rsRequest) => fetch(rsRequest))
                    .then((resp) => {
                        if (!resp.ok && self.getAuthHeaderDetails(resp.headers)["error"] === "invalid token") {
                            let promise = self.waitForRenewedToken(resourceServer)
                                .then(() => self.addAccessTokenToRequest(event.request, resourceServer))
                                .then((freshRSRequest) => fetch(freshRSRequest));
                            self.messageChannel.postMessage({
                                "message": "renewTokens",
                                "resourceServer": resourceServer
                            return promise;
                            return resp;
                    .then(resolve, reject);
```







Demo

Walk-through of an example application



```
tokensAvailableHandler: function (claims) {
     Promise.all([
            fetch("https://rs.sample.forgeops.com/openidm/info/login").then((resp) => resp.json())
      ]).then((responses) => {
            document.getElementById('userDetails').innerText = JSON.stringify({
                  "info/login": responses[0]
                                                                         "info/login": {
            }, null, 4);
                                                                             id": "login",
                                                                            "authenticationId": "user.0",
     });
                                                                            "authorization": {
                                                                                "component": "managed/user",
                                                                                "authLogin": false,
                                                                                "adminUser": "openig",
                                                                                "roles": [
                                                                                    "internal/role/openidm-authorized"
                                                                                "ipAddress": "192.168.99.1",
                                                                                "authenticationId": "openig",
                                                                                "id": "c39ab2bc-346d-48e1-883e-7171af12567e",
                                                                                "moduleId": "STATIC USER"
                                                                                   Filter URLs
                                                                                                                            All HTML CSS JS XHR
                                                                                                        File
                                                                             Method
                                                                                       Domain
                                                                   Status
                                                                                       localhost:8888
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                                                                             GET
                                                                                       Ocalhost:8888
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                                                                                                        appAuthHelperFetchTokensBundle.js
                                                                                       login.sample.forgeo... authorize?redirect_uri=http://localhost:8888/appAuthHelperRedi...
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                                                                             GET
                                                                                       login.sample.forgeo... access_token
                                                                   200
                                                                            POST
                                                                                       rs.sample.forgeops.... login
                                                                             GET
```

rs sample forgeons login





□	URLs						II All HTML CSS JS XHR Fonts Images Media WS Other
Sta Me Do	File	Cause	Туј	Tra	S	0 ms	Headers Cookies Params Response Timings Stack
30∙ G ⊕ l	/	docu	h	cached	2.1	1 ms	▼ Filter request parameters
30. G ⊕l	appAuthHelperB	script	js	cached	72	1 ms	▼ Query string
40 G ⊕1	favicon.ico	img	х	cached	01		redirect_uri: http://localhost:8888/appAuthHelperRedirect.html client_id: appAuthClient
20 G ⊕1	appAuthHelperR	subd	h	cached	1		response_type: code
20 G ⊕1	appAuthHelperF	script	js	cached	01	iva va va va	state: QrBVmglamY
30: G 🖺 l	authorize?redire	subd		621 B	01	27 ms	scope: openid profile openid prompt: none
20 G ⊕ l	appAuthHelperR	subd	h	1.58	1.:	1 ms	code_challenge: 6J_pYxU6Y-YJULwBLuDg9nOoWJxC0DqP4A8PGV578P0
20 G ⊕ l	appAuthHelperF	script	js	cached	01		code_challenge_method: 5256
20 P 🖴 l	access_token	fetch	j	1.46	1.7	38 ms	
30: G ⋒ l	authorize?redire	subd		621 B	01	12 ms	
20 G ⊕I	appAuthHelperR	subd	h	1.58	1	1 ms	
20 G ⊕l	appAuthHelperF	script	js	cached	01		
20 P ≜ l	access_token	fetch	j	1.40	1.	27 ms	
20 G △ r	login	fetch	j	903 B	29	135 ms	s ·
20 G r	login	fetch	j	servi	29		



Request URL: https://login.sample.forgeops.com/oauth2/authorize?redirect_uri=http://localhost:8888/appAuthHelperReresponse_type=code&state=QrBVmgIamY&scope=openid profile openid&prompt=none&code_challenge=6J_pYxU6Y-YJULwBLuDg!code challenge method=S256

Request method: GET

Remote address: 192.168.99.100:443

Status code: 302 Found ②

Version: HTTP/2.0

Referrer Policy: no-referrer-when-downgrade

Filter headers

▼ Response headers (621 B)

HTTP/2.0 302 Found server: nginx/1.15.9

date: Thu, 20 Jun 2019 20:32:53 GMT

content-length: 0

location: http://localhost:8888/appAuthHelperRedirect.html?code=zqJL4s7mf9kvPrbr qZHl4Sv7Yk&iss=https%3A%2F%2F

x-frame-options: SAMEORIGIN

pragma: no-cache

cache-control: no-store accept-ranges: bytes

vary: Accept-Charset, Accept-Encoding, Accept-Language, Accept

access-control-allow-origin: *

access-control-allow-methods: PUT,GET,POST,HEAD,PATCH,DELETE access-control-allow-headers: authorization,x-requested-with

X-Firefox-Spdy: h2

Request headers (855 B)

Host: login.sample.forgeops.com

User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:67.0) Gecko/20100101 Firefox/67.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate, br Referer: http://localhost:8888/

Connection: keep-alive

Cookie: route=59372b3ea79657fbe7c765171526fdef07a57509; amlbcookie=01; iPlanetDirectoryPro=Qamslikf2RkZoZIVAPe

Upgrade-Insecure-Requests: 1





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20	G	⊕t	appAuthHelperR	subd	h	cached	1.:			redirect_uri:
20	G	⊕ι	appAuthHelperF	script	js	cached	01			code: zqJL4
30:	G	△ l	authorize?redire	subd		621 B	01	27 ms		code_verifie
20	G	⊕լ	appAuthHelperR	subd	h	1.58	1	1 ms		
20	G	⊕	appAuthHelperF	script	js	cached	01			
201	P	<u>a</u> i	access_token	fetch	j	1.46	1	38 ms		
30:	G	△ t	authorize?redire	subd		621 B	01	12 ms		
20	G	⊕լ	appAuthHelperR	subd	h	1.58	1.:	1 ms		
20	G	⊕լ	appAuthHelperF	script	js	cached	01			
20	P	△ l	access_token	fetch	j	1.40	1.	27 ms		
20	G	△ r	login	fetch	j	903 B	29	135 ms		
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₩ Fo	rm data					
	7.257	authorization	_code			

appAuthClient

ri: http://localhost:8888/appAuthHelperRedirect.html

_4s7mf9kvPrbr_qZHl4Sv7Yk

Fier: 7HDNRVYjLAsvID6LEdtTX8it61uWqWv9jFliXtBUYYcK7xF 9YGyPFrDts5T0cDjEllgNXYi

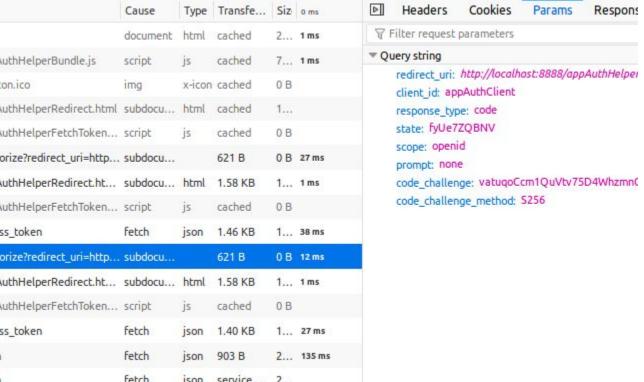


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30	G	⊕ι	/	docu	h	cached	2,1 1 ms	V	Filter properti	es						
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20	G	⊕ι	appAuthHelperR	subd	h	cached	1		id_token: eyJ0eXAiOiJKV1QiLCJraWQiOiJ3VTNpZklJYUxPVUFSZVJCL0ZHNmVNMVAx							
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30	G	△ l	authorize?redire	subd		621 B	0 27 ms	mlkX3Rva2VuliwiZ2l2ZW5fbmFtZSI6IkFhY2NmliwiYXVkljoiYXBwQXV0aENsa WczMFEiLCJhY3IiOilwIiwib3JnLmZvcmdlcm9jay5vcGVuaWRjb25uZWN0Lm9v aW1lljoxNTYxMDYyMzAxLCJuYW1lljoiQWFjY2YqQW1hcilsInJlYWxtljoiLyIsIn						m9w		
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304	GET	⊕local	1	document	html	cached	2	1 ms	▼ Filter request parameters
304	GET	⊕local	appAuthHelperBundle.js	script	js	cached	7	1 ms	▼ Query string
404	GET	⊕local	favicon.ico	img	x-icon	cached	0 B		redirect_uri: http://localho client id: appAuthClient
200	GET	⊕local	appAuthHelperRedirect.html	subdocu	html	cached	1		response_type: code
200	GET	⊕local	appAuthHelperFetchToken	script	js	cached	0 B		state: fyUe7ZQBNV
302	GET	△ login	authorize?redirect_uri=http	subdocu		621 B	0 B	27 ms	scope: openid prompt: none
200	GET	⊕ local	appAuthHelperRedirect.ht	subdocu	html	1.58 KB	1	1 ms	code_challenge: vatuqoCo
200	GET	⊕local	appAuthHelperFetchToken	script	js	cached	0 B		code_challenge_method: \$
200	POST	a login	access_token	fetch	json	1.46 KB	1	38 ms	
302	GET	login	authorize?redirect_uri=http	subdocu		621 B	0 B	12 ms	
200	GET	⊕ local	appAuthHelperRedirect.ht	subdocu	html	1.58 KB	1	1 ms	
200	GET	⊕local	appAuthHelperFetchToken	script	js	cached	0 B		
200	POST	■ login	access_token	fetch	json	1.40 KB	1	27 ms	
200	GET	☐ rs.sa	login	fetch	json	903 B	2	135 ms	
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304	GET	⊕ local	/	document	html	cached	2	1 ms	∀ Filter properties						
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404	GET	⊕local	favicon.ico	img	x-icon	cached	0 B		access_token: e1ue6sWk82QQNHid7ZOCcTedT_w scope: openid						
200	GET	⊕ local	appAuthHelperRedirect.html	subdocu	html	cached	1		id_token: eyJ0eXAiOiJKV1QiLCJraWQiOiJ3VTNpZkIJYUxPVUFSZVJ/ YjU0Q1BCb2NMVXIqdyIsInN1YiI6InVzZXIuMCIsImF1ZGl0VH MjU4liwiaXNzIjoiaHR0cHM6Ly9sb2dpbi5zYW1wbGUuZm9y/ QXV0aENsaWVudCIsImNfaGFzaCI6IlNxcF9DUTFfOHlkbnRn wcyI6IjRURkthRm8ya1VsTldMc0dSdThnMk52WGl1cyIsInNfa						
200	GET	⊕ local	appAuthHelperFetchToken	script	js	cached	0 B								
302	GET	■ login	authorize?redirect_uri=http	subdocu		621 B	0 B	27 ms							
[200]	GET	⊕local	appAuthHelperRedirect.ht	subdocu	html	1.58 KB	1	1 ms	9RWF82ZmRvZmciLCJhenAiOiJhcHBBdXRoQ2xpZW50IiwiY InRva2VuVHlwZSI6IkpXVFRva2VuIiwiaWF0IjoxNTYxMDYyN G1AXR7Qu0cgqajjjD5F3jc32lVb0o8LqUaAeoNGFP68Tkd1e0						
200	GET	⊕local	appAuthHelperFetchToken	script	js	cached	0 B		aU79e1F6f29t4BdKhrCruNUN95oMzr6pMHCU88DDVSsSLNMZt\ WGTbVTDCDxcZKhVudMVbZxNmlhEVdVwA4jJu7- f4xWHStemu						
200	POST	■ login	access_token	fetch	json	1.46 KB	1	38 ms	token_type: Bearer						
302	GET	■ login	authorize?redirect_uri=http	subdocu		621 B	0 B	12 ms	expires_in: 3599						
200	GET	⊕local	appAuthHelperRedirect.ht	subdocu	html	1.58 KB	1	1 ms	Response payload						
200	GET	⊕local	appAuthHelperFetchToken	script	js	cached	0 B		<pre>1 {"access_token":"elue6sWk82QQNHid7Z0CcTedT_w","sco</pre>						
200	POST	login	access_token	fetch	json	1.40 KB	1	27 ms							
200	GET	ns.sa	login	fetch	json	903 B	2	135 ms							
200	GET	rs.sa	login	fetch	json	service	2								

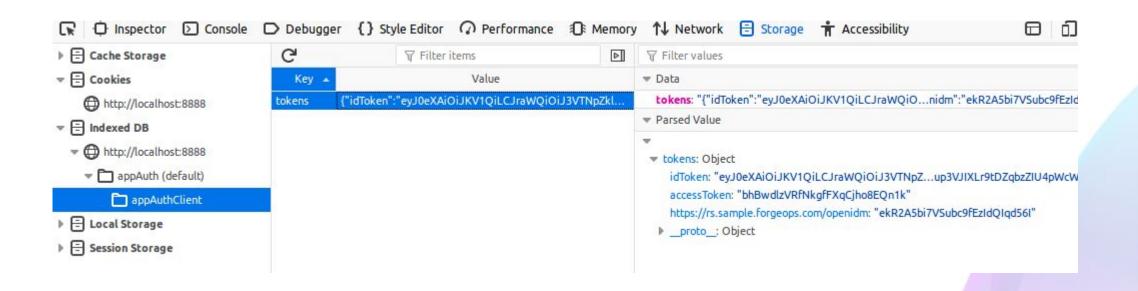




St	М	Domain	File	Cause	Type	Transfe	Siz	0 п	ms	Headers Cookies Params Response Timings Security
304	GET	⊕local	/	document	html	cached	2	1 m	ns	Request URL: https://rs.sample.forgeops.com/openidm/info/login Request method: GET
304	GET	⊕local	appAuthHelperBundle.js	script	js	cached	7	1 m	ns	Remote address: 192.168.99.100:443
404	GET	⊕local	favicon.ico	img	x-icon	cached	0 B			Status code: 200 OK ②
200	GET	⊕local	appAuthHelperRedirect.html	subdocu	html	cached	1			Version: HTTP/2.0
200	GET	⊕local	appAuthHelperFetchToken	script	js	cached	0 B			Referrer Policy: no-referrer-when-downgrade
302	GET	■ login	authorize?redirect_uri=http	subdocu		621 B	0 B	27	ms	₩ Filter headers
200	GET	⊕ local	appAuthHelperRedirect.ht	subdocu	html	1.58 KB	1	1 m	ns	Response headers (681 B)
200	GET	⊕local	appAuthHelperFetchToken	script	js	cached	0 B			Request headers (377 B)
200	POST	■ login	access_token	fetch	json	1.46 KB	1	38	ms	② Accept: */* ② Accept-Encoding: gzip, deflate, br
302	GET	△ login	authorize?redirect_uri=http	subdocu		621 B	0 B	12	ms	② Accept-Language: en-US,en;q=0.5
200	GET	⊕ local	appAuthHelperRedirect.ht	subdocu	html	1.58 KB	1	1 m	ns	Authorization: Bearer e1ue6sWk82QQNHid7ZOCcTedT_w Connection: keep-alive
200	GET	⊕ local	appAuthHelperFetchToken	script	js	cached	0 B			② Host: rs.sample.forgeops.com
-	POST	△ login	access_token	fetch	json	1.40 KB	1	27	ms	Origin: http://localhost:8888
200		ars.sa		fetch	json	903 B	2	135	5 ms	Referer: http://localhost:8888/ User-Agent: Mozilla/5.0 (X11; Ubuntu; Linu) Gecko/20100101 Firefox/67.0
200		rs.sa	The state of the s	fetch	ison	service	2		200	O Sel-Agent Mozita) 3.0 (ATT) Obdito, Elio) George 100101 The lox/01.0









Request URL: https://rs.sample.forgeops.com/openidm/info/login

Request method: GET

Remote address: 192.168.99.100:443 Status code: 401 Unauthorized ②

Version: HTTP/2.0

Referrer Policy: no-referrer-when-downgrade

₩ Filter headers

▼ Response headers (697 B)

Raw h

Edi

HTTP/2.0 401 Unauthorized server: nginx/1.15.9

date: Thu, 20 Jun 2019 21:00:23 GMT

content-length: 0

set-cookie: INGRESSCOOKIE=f9714211a5c6084e034bbcb6bcd3b981; Path=/; Secure; HttpOnly

www-authenticate: Bearer realm="OpenIG",error description="The access token provided is expired, revoked, malformed, or invalid for other reasons.",error="invalid token"





Û	V	Filter	URLs
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Status	Method	Domain	File	Headers Cookies Params Response Timings				
304	GET	⊕ localhost:8888	/	₩ Filter properties				
304	GET	⊕ localhost:8888	appAuthHelperBundle.js	▼ JSON				
404	GET	⊕ localhost:8888	favicon.ico	access_token: ekR2A5bi7VSubc9fEzIdQIqd56I				
200	GET	⊕ localhost:8888	appAuthHelperRedirect.html	scope: openid id_token: eyJ0eXAiOiJKV1QiLCJraWQiOiJ3VTNpZkIJYUxPVUF: 0VHJhY2tpbmdJZCI6IjRjOTk2Yjg2LTQyOWEtNDE5Mi0 va2VuliwiYXVkIjoiYXBwQXV0aENsaWVudCIsImNfaGF:				
401	GET	rs.sample.forgeops.com	login					
200	GET	⊕ localhost:8888	appAuthHelperFetchTokensBundle.js	cF9jS1g0SVowNCIsInNfa xEZzQ4M3VYd2ciLCJhenAiOiJhcHBBdXRoQ2xpZW50				
302	GET	login.sample.forgeops.com	authorize?redirect_uri=http://localhost:8888/a	DIzfQ.Ka16xGX8AXg_HXl5IpmogxGBF7eQOQenvInX Ue2gCj6SncyQabD0u17vRu9HXZwetmyhTRfx_5jMZJ				
200	GET	⊕ localhost:8888	appAuthHelperRedirect.html?code=tE8zYjIZ1x	yLzZt_9up3VJIXLr9tDZqbzZIU4pWcWMA_li5Gg token_type: Bearer				
[200]	GET	⊕ localhost:8888	appAuthHelperFetchTokensBundle.js	expires_in: 1				
200	POST	a login.sample.forgeops.com	access_token	▼ Response payload				
200	GET	ars.sample.forgeops.com	login	<pre>1 {"access_token":"ekR2A5bi7VSubc9fEzIdQIqd56</pre>				
200	GET	rs.sample.forgeops.com	login					





Status	Method	Domain	File	Headers Cookies Params Response Timings Security						
304	GET	⊕ localhost:8888	/	Request URL: https://rs.sample.forgeops.com/openidm/info/login Request method: GET						
304	GET	⊕localhost:8888	appAuthHelperBundle.js	Remote address: 192.168.99.100:443						
404)	GET	⊕ localhost:8888	favicon.ico	Status code: 200 OK ② Version: HTTP/2.0 Referrer Policy: no-referrer-when-downgrade						
200	GET	⊕localhost:8888	appAuthHelperRedirect.html							
401	GET	ars.sample.forgeops.com	login							
200	GET	⊕ localhost:8888	appAuthHelperFetchTokensBundle.js	₩ Filter headers						
302	GET	login.sample.forgeops.com	authorize?redirect_uri=http://localhost:8888/a	Response headers (681 B)						
200	GET	⊕ localhost:8888	appAuthHelperRedirect.html?code=tE8zYjIZ1x							
200	GET	⊕ localhost:8888	appAuthHelperFetchTokensBundle.js	② Accept: */* ② Accept-Encoding: gzip, deflate, br						
200	POST	☐ login.sample.forgeops.com	access_token	Accept-Language: en-US,en;q=0.5						
200	GET	ars.sample.forgeops.com	login	② Authorization: Bearer ekR2A5bi7VSubc9fEzIdQIqd56I						
200	GET	rs.sample.forgeops.com	login	② Cache-Control: max-age=0 ② Connection: keep-alive						
				② Host: rs.sample.forgeops.com						
				① Origin: http://localhost:8888						
				? Referer: http://localhost:8888/						
			User-Agent: Mozilla/5.0 (X11; Ubuntu; Linu) Gecko/20100101 Firefox/67.0							





- AppAuthHelper: https://www.npmjs.com/package/appauthhelper
- Wrapper for AppAuth for JS to assist with the full OAuth2 / OIDC token life-cycle.

- OIDCSessionCheck: https://www.npmjs.com/package/oidcsessioncheck
- JavaScript library to assist with binding sessions between an OIDC OP and RP

- Twitter: @jakefeasel
- https://github.com/jakefeasel

https://www.linkedin.com/in/jake-feasel/



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