



Configuration of the mod_auth_openidc Apache Module for use with CA SSO

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Document Properties

Attribute	Value
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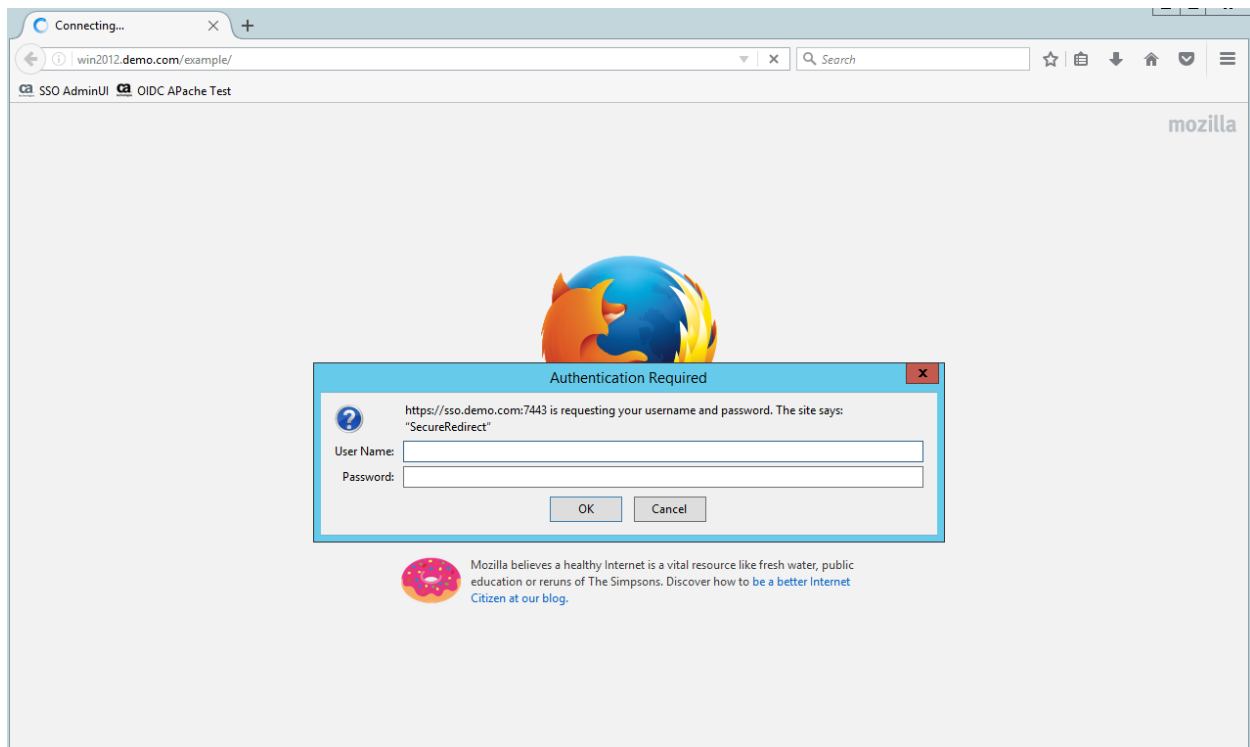
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Useful Reference Links

- <https://docops.ca.com/ca-single-sign-on/12-7/EN/configuring/use-ca-single-sign-on-as-openid-connect-provider/configure-ca-single-sign-on-as-openid-connect-provider>
- https://github.com/pingidentity/mod_auth_openidc/
- https://github.com/pingidentity/mod_auth_openidc/wiki
- https://github.com/pingidentity/mod_auth_openidc/releases

Demonstration



Authentication Required

?

https://sso.demo.com:7443 is requesting your username and password. The site says: "SecureRedirect"

User Name:

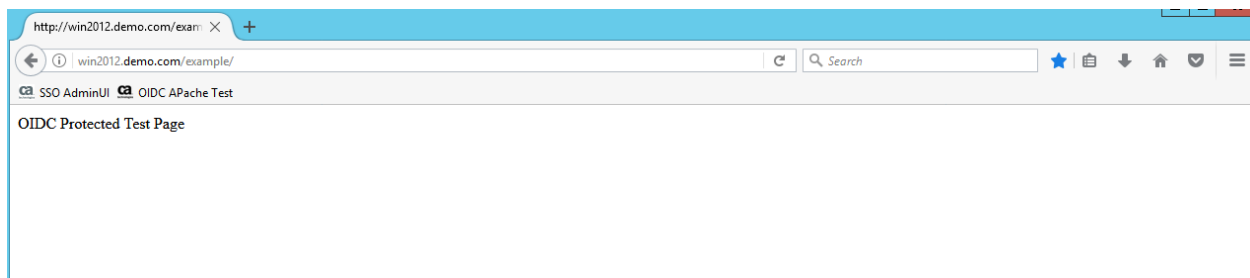
jacksaunders

Password:

●●●●●●●●

OK

Cancel

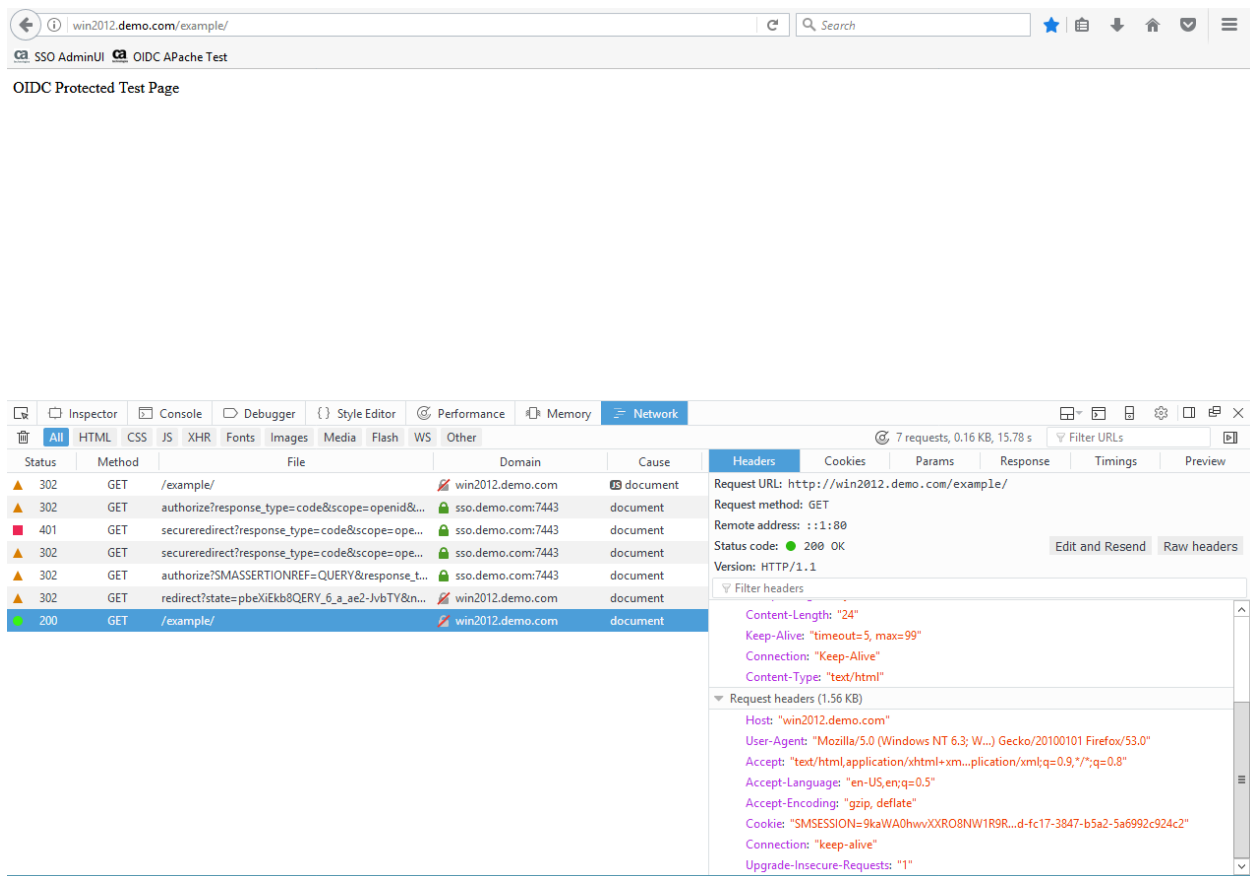


Header Page Dump

HTTP_ACCEPT_ENCODING	gzip, deflate
HTTP_ACCEPT_LANGUAGE	en-US,en;q=0.5
HTTP_CONNECTION	keep-alive
HTTP_COOKIE	SMSESSION=cBPYGCgBIXA0ArDheP/EWAX6RSUeWmUclKmdxcvDQxGWpTXEiGBAFfCdq0Gis9DnsNMQZwb3jr2AGtQNT2CtT1/cxzL8rUTVQeV4ZBB8FvD5cyA+gEfy6yyVjkCNY9KX078xHpwlm+h+q9ZDRgRKkDokmTouaw1YLGsxd5GKguLL6gNvXczL5It+YxowhtqdSgR5mGhN+U/7bx3kx24ecD3a4LYrW2rUfsl1JmKuhMkjcM3hSrpJ6RTvBNs67I9NfrZIZk51uV6faL8EAFgkpl5ZzjVmycV7HxO TYjvbfGwrxGSvMIE+3uk9ezIV7W8lbTrrJ1yB7P2EgwCkIArW1cB17xTp7E1Mn+GSX2wBjuXvBGLanKPUErBo7Yv01CXPwDJvIOCVOuJuaXAsLsPxc+iXww75s70Y+WGUY4iKfAV054gUek4X3KF6wqUtdGvNUJIAKd9Gj1flp0uUsgpXiqno2z2jIBtuagqTUGlv8xfqG+Gln/maLrt691xig2bm6QIZ8nFAo4y5ZIRexJpsoQwvL46NH44SKP0bFNfeqWcnsWBrrmdBhYTuGPwMjPEV+XKKy9AaMa00sWSo50+Rylo+b3KRXPpSVN UYVxtd5GvLDe9ysnKz/mluk9PrUalP6HQNr65IGUnglp5 /jnYRj8z2hGW2XMNkaP2NhcZBcNMBfemmkw474M8zrpBhaF2DOpyYVqVxZ6pturOA0c3aEIPA4xd8tEKMUGkYPPS7IVNW8BDip2nqq98u7pTRdBYSy/GipmirNwayDaOMQyPXzFBjaC2M5LddTy+Hsc5mB /F5QkUgWMIF3Hawm6TW94AaApXWpL4UODkYNLaygHbtgqvowoc9Oh2wWQU4P55guHxsp8lqzU7VrfWQvnaISWzDluXlpo3h5uAzcAlmC5WYCqVDWcXMeYnCc3u9nAlwuyU/c+dt6xOH2gdnabXqC1Aav9A mod_auth_openssl_session=3e97d53-4f1e-944b-80ff-a327577ab8ff
HTTP_HOST	win2012.demo.com
HTTP_REFERER	http://win2012.demo.com/example/
HTTP_UPGRADE_INSECURE_REQUESTS	1
HTTP_USER_AGENT	Mozilla/5.0 (Windows NT 6.3; WOW64; rv:53.0) Gecko/20100101 Firefox/53.0
OIDC_ACCESS_TOKEN	ZrIMTQ3NDM4mU5Y00ZjAwLTlkNWQmZU5ZjBzZDRzMzAyLVdZVWpJME1oSG5YY2hVK3MSRTRJM0hyZXNQYz0=
OIDC_ACCESS_TOKEN_EXPIRES	1496169821
OIDC_CLAIM_AUD	0004837a-2758-1927-816a-6283c0a84a7f
OIDC_CLAIM_AUTH_TIME	1496169522
OIDC_CLAIM_EMAIL	jack.saunders@ca.com
OIDC_CLAIM_EXP	1496169822
OIDC_CLAIM_IAT	1496169522
OIDC_CLAIM_JSS	https://sso.demo.com:7443
OIDC_CLAIM_NONCE	0SeuKrbQNX7S-d-cXMPdDVKNHTCkxa2VMLLE2MOhdQ
OIDC_CLAIM_SUB	nid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder

Browser Network Trace

Note! CA SMSESSION cookie is generated after open standards based JWT token validation is successful.



Lab Environment Details

OIDC Authorization Provider Host

RHEL7.x running CA SSO 12.7
 CA SSO Access Gateway 12.7
 Session Server / Store - ** Required for OIDC Support**
 Host address = <https://sso.demo.com:7443>

OIDC Client Host

Windows 2012 Server
 Apache 2.4
 mod_auth_openidc – 2.2.0 release
 Host address = <http://win2012.demo.com>

Authorization Provider Configuration

Create signing certificate for CA SSO IDP – sso.demo.com

Run below command to convert CA SSO Access Gateway SSL certificate to PKCS format

```
openssl pkcs12 -export -out sso.demo.com.pfx -inkey /opt/CA/secure-proxy/SSL/keys/sso.demo.com.key -in /opt/CA/secure-proxy/SSL/certs/sso.demo.com.crt
```

Imported the certificate using the adminui.

The screenshot shows the 'Trusted Certificates and Private Keys' section of the admin interface. On the left is a navigation menu with 'Infrastructure' expanded, showing 'X509 Certificate Management' and its sub-items. The main area has a header with instructions on how to import, create, or delete certificates. Below this is a 'Filter Certificates and Private Keys' section with a search bar. The 'Certificate and Private Key List' table shows one entry: a 'Private Key and Certificate' issued to 'sso.demo.com' by 'sso.demo.com', which is not expired and has a FIPS status of 'Yes'. A legend at the bottom explains the status icons: red for expired, green for not expired, and yellow for expiring soon.

Action	Alias	Type	Signing Status	Issued To	Issuer	Revoked?	Expiration Date	FIPS Status	Dependencies
Action	1	Private Key and Certificate	Self-Signed	sso.demo.com	sso.demo.com	No	May 23, 2027 01:58 PM EDT	Yes	Show

The screenshot shows the 'Authorization Provider' configuration page. It includes a breadcrumb 'View Authorization Providers > Modify Authorization Provider'. The 'Provider Name' field is set to 'CASSO-OP'. Below it is a 'Description' field. The 'Authentication and Authorization' section contains two panes: 'Available Directories' with 'AD-win2012' and 'Selected Directories' with 'CA Directory'. Arrows between the panes allow moving directories. A 'User Directories' label is present. A legend indicates that red asterisks denote required fields.

The screenshot shows the ODBC configuration section. It includes a 'Search Specification' field. The 'Authorization Server Base URL' is 'https://sso.demo.com:7443'. The 'Authentication URL' is 'https://sso.demo.com:7443/affwebservices/secure/securedirect'. The 'Use Secure Authentication URL' checkbox is checked. The 'Authorization Code Expiry Time' is set to '1' minute.

Signing and Encryption

[Import](#) [Generate](#)

* Signing Certificate Alias:

Expires on: May 23, 2027 01:58 PM EDT

* Signing Algorithm:

- ☒ Sign ID Token
☐ Sign User Information

Encryption Certificate Alias:

Encryption Key ID:

Encryption Algorithm:

Encryption Method:

- ☐ Encrypt ID Token
☐ Encrypt User Information

Mappings

Claims Mapping

Claim Name		User Attribute		Add
Claim Name	User Attribute	Action		
email	mail	Edit	Delete	

Scope Mapping

Scope Name		Claim Names		Add
Scope Name	Claim Names	Action		
email	email	Edit	Delete	

OIDC Client Configuration

[View Clients](#) > Modify Client Apache-OIDC

* = Required

* Client Name:

Description:

Client ID: 000d837a-2758-1927-816a-6283c0a84a7f

Client Secret: [Show](#)

☐ Regenerate

Logo URL:

☒ Disable User Consent

User Consent Form:

```
[05/26/2017][09:21:16.516][09:21:16][4099][139745116010240][SmMessage.cpp:557][CSmMessage::ParseAgentMessage][s13/r439][secureproxy-01]#####jacksaunders[Receive request attribute 210, data size is 12]#####[05/26/2017][09:21:16.516][09:21:16][4099][139745116010240][Sm_Auth_Message.cpp:780][CSm_Auth_Message::AuthenticateUser][9356dcbb-88821138-76fa9231-27133c85-0b193bc8-8e][secureproxy-01]/affwbeservices/secure/secureredirect?response_type=code&scope=openid&client_id=000d837a-2758-1927-816a-6283c0a84a78&state=ovg7f04htab1Xf8UBPq7THf5SfBM&redirect_url=http%3a%2f%2fwin012.demo.com%2fExample%2fredirect&nonce=LSjXdfBzUjajx5k4a0a20SF3TmCfif2JmCVv6Zc_w&SPOROTALURL=S9M2s2BcMHmqmJ3UX4UhVkm64RdCnVyns73py2kGqFDCfvc3e40dKAsrhGU0ntu1mDRX0qz52fVbELURNg93mjl7LdUkjhq52bhM3OCRoVBlzQTbho52Fkrs3vLdCr5oA[jacksaunders][SecureRedirect][OIDC Auth Url]#####[Authenticating user.].#####[5][0][Basic]#####jacksaunders]]][06-00005ba9-30f7-1927-816a-6283c0a84a7f]#####[05/26/2017][09:21:16.516][09:21:16][4099][139745116010240][SmDsDir.cpp:272][CSmDsDir::IsValidUsername]#####[User = 'jacksaunders']][Start of call IsValidUsername.#####[05/26/2017][09:21:16.516][09:21:16][4099][139745116010240][SmDsDir.cpp:425][CSmDsDir::Search]#####[Advanced search, Root='ou=policystore,o=siteminder',Filter='(uid=jacksaunders)']][Start of call Search.#####
```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```

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38 52 67 73 4b 46 3d 62 65 44 51 3d]0000000000
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[illegible]

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[05/26/2017][09:24:51.317][09:24:51][4099][139745124402944][Sm_Az_Message.cpp:828][Csm_Az_Message::FormatAttribute][s10/r235][oidcp:CASSO-OP][jacksaunders][oidcp:CASSO-OP_aj][oidcp:CASSO-OP]00000000000000000000[V,.....][Send response attribute 154, data size is 8]000000000000[unLadIdHuSelYj+PjmAfULR8PnXqXhhNQFFAlaropAznKONQuiqP7IP4I+8u5ziqAFCCHejdtNOCNQYDOzDOK5wzKwNPM8G1EVJbJzWxjvulV+Z+8ttmVxvtc9ef5YqnQAVSa+MewmY1VbRp69V9gbTjWKR+c6PE6ddc2eVjDMhMbMuAikAt/IG/0OMF1G+fbReKqA5zRdXHeOtG0075t0HpoEn5d1Ual/PQuaf1hIEPVxz10kIPhZNAvnjsI9VzNDiArRrYABYbyd1oLR+K2RCrEm9wkBJ5gNzX0UyuzNK/CNH/de4dgy2U2ip24dEFu1aKnnkCV1PyYUtwfJwO15WlleUtfYaqybTHfK2NuHOpNelIVRGomz0hN68PCzClb6Wpr1qh5YsYxJXGADP2iCH3Qog1zMOX/vDLLo29oklGUA7TD+MYclwUBiLLP5hYXEc8vcFgfA==][oid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder]000000000000[AuthorizeEx][59 28 2c a3 00 00 00 00]0000000000
[05/26/2017][09:24:51.317][09:24:51][4099][139745124402944][Sm_Az_Message.cpp:828][Csm_Az_Message::FormatAttribute][s10/r235][oidcp:CASSO-OP][jacksaunders][oidcp:CASSO-OP_aj][oidcp:CASSO-OP]00000000000000000000[V,.....][Send response attribute 155, data size is 8]000000000000[unLadIdHuSelYj+PjmAfULR8PnXqXhhNQFFAlaropAznKONQuiqP7IP4I+8u5ziqAFCCHejdtNOCNQYDOzDOK5wzKwNPM8G1EVJbJzWxjvulV+Z+8ttmVxvtc9ef5YqnQAVSa+MewmY1VbRp69V9gbTjWKR+c6PE6ddc2eVjDMhMbMuAikAt/IG/0OMF1G+fbReKqA5zRdXHeOtG0075t0HpoEn5d1Ual/PQuaf1hIEPVxz10kIPhZNAvnjsI9VzNDiArRrYABYbyd1oLR+K2RCrEm9wkBJ5gNzX0UyuzNK/CNH/de4dgy2U2ip24dEFu1aKnnkCV1PyYUtwfJwO15WlleUtfYaqybTHfK2NuHOpNelIVRGomz0hN68PCzClb6Wpr1qh5YsYxJXGADP2iCH3Qog1zMOX/vDLLo29oklGUA7TD+MYclwUBiLLP5hYXEc8vcFgfA==][oid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder]000000000000[AuthorizeEx][59 28 2c a3 00 00 00 00]0000000000
[05/26/2017][09:24:51.317][09:24:51][4099][139745124402944][Sm_Az_Message.cpp:828][Csm_Az_Message::FormatAttribute][s10/r235][oidcp:CASSO-OP][jacksaunders][oidcp:CASSO-OP_aj][oidcp:CASSO-OP]00000000000000000000[V,.....][Send response attribute 225, data size is 8]000000000000[unLadIdHuSelYj+PjmAfULR8PnXqXhhNQFFAlaropAznKONQuiqP7IP4I+8u5ziqAFCCHejdtNOCNQYDOzDOK5wzKwNPM8G1EVJbJzWxjvulV+Z+8ttmVxvtc9ef5YqnQAVSa+MewmY1VbRp69V9gbTjWKR+c6PE6ddc2eVjDMhMbMuAikAt/IG/0OMF1G+fbReKqA5zRdXHeOtG0075t0HpoEn5d1Ual/PQuaf1hIEPVxz10kIPhZNAvnjsI9VzNDiArRrYABYbyd1oLR+K2RCrEm9wkBJ5gNzX0UyuzNK/CNH/de4dgy2U2ip24dEFu1aKnnkCV1PyYUtwfJwO15WlleUtfYaqybTHfK2NuHOpNelIVRGomz0hN68PCzClb6Wpr1qh5YsYxJXGADP2iCH3Qog1zMOX/vDLLo29oklGUA7TD+MYclwUBiLLP5hYXEc8vcFgfA==][oid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder]000000000000[AuthorizeEx][00 00 1c 20 00 00 00 00]0000000000
[05/26/2017][09:24:51.317][09:24:51][4099][139745124402944][Sm_Az_Message.cpp:828][Csm_Az_Message::FormatAttribute][s10/r235][oidcp:CASSO-OP][jacksaunders][oidcp:CASSO-OP_aj][oidcp:CASSO-OP]00000000000000000000[V,.....][Send response attribute 226, data size is 8]000000000000[unLadIdHuSelYj+PjmAfULR8PnXqXhhNQFFAlaropAznKONQuiqP7IP4I+8u5ziqAFCCHejdtNOCNQYDOzDOK5wzKwNPM8G1EVJbJzWxjvulV+Z+8ttmVxvtc9ef5YqnQAVSa+MewmY1VbRp69V9gbTjWKR+c6PE6ddc2eVjDMhMbMuAikAt/IG/0OMF1G+fbReKqA5zRdXHeOtG0075t0HpoEn5d1Ual/PQuaf1hIEPVxz10kIPhZNAvnjsI9VzNDiArRrYABYbyd1oLR+K2RCrEm9wkBJ5gNzX0UyuzNK/CNH/de4dgy2U2ip24dEFu1aKnnkCV1PyYUtwfJwO15WlleUtfYaqybTHfK2NuHOpNelIVRGomz0hN68PCzClb6Wpr1qh5YsYxJXGADP2iCH3Qog1zMOX/vDLLo29oklGUA7TD+MYclwUBiLLP5hYXEc8vcFgfA==][oid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder]000000000000[AuthorizeEx][30 55 49 42 79 38 49 34 52 63 32 58 52 6f 73 4b 48 36 4d 32 6f 65 4a 41 55 3d]0000000000
[05/26/2017][09:24:51.317][09:24:51][4099][139745124402944][Sm_Az_Message.cpp:828][Csm_Az_Message::FormatAttribute][s10/r235][oidcp:CASSO-OP][jacksaunders][oidcp:CASSO-OP_aj][oidcp:CASSO-OP]00000000000000000000[V,.....][Send response attribute 255, data size is 93]000000000000[unLadIdHuSelYj+PjmAfULR8PnXqXhhNQFFAlaropAznKONQuiqP7IP4I+8u5ziqAFCCHejdtNOCNQYDOzDOK5wzKwNPM8G1EVJbJzWxjvulV+Z+8ttmVxvtc9ef5YqnQAVSa+MewmY1VbRp69V9gbTjWKR+c6PE6ddc2eVjDMhMbMuAikAt/IG/0OMF1G+fbReKqA5zRdXHeOtG0075t0HpoEn5d1Ual/PQuaf1hIEPVxz10kIPhZNAvnjsI9VzNDiArRrYABYbyd1oLR+K2RCrEm9wkBJ5gNzX0UyuzNK/CNH/de4dgy2U2ip24dEFu1aKnnkCV1PyYUtwfJwO15WlleUtfYaqybTHfK2NuHOpNelIVRGomz0hN68PCzClb6Wpr1qh5YsYxJXGADP2iCH3Qog1zMOX/vDLLo29oklGUA7TD+MYclwUBiLLP5hYXEc8vcFgfA==][oid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder]000000000000[AuthorizeEx][00 00 1c 20 00 00 00 00]0000000000
[05/26/2017][09:24:51.317][09:24:51][4099][139745124402944][Sm_Az_Message.cpp:828][Csm_Az_Message::FormatAttribute][s10/r235][oidcp:CASSO-OP][jacksaunders][oidcp:CASSO-OP_aj][oidcp:CASSO-OP]00000000000000000000[V,.....][Send response attribute 256, data size is 8]000000000000[unLadIdHuSelYj+PjmAfULR8PnXqXhhNQFFAlaropAznKONQuiqP7IP4I+8u5ziqAFCCHejdtNOCNQYDOzDOK5wzKwNPM8G1EVJbJzWxjvulV+Z+8ttmVxvtc9ef5YqnQAVSa+MewmY1VbRp69V9gbTjWKR+c6PE6ddc2eVjDMhMbMuAikAt/IG/0OMF1G+fbReKqA5zRdXHeOtG0075t0HpoEn5d1Ual/PQuaf1hIEPVxz10kIPhZNAvnjsI9VzNDiArRrYABYbyd1oLR+K2RCrEm9wkBJ5gNzX0UyuzNK/CNH/de4dgy2U2ip24dEFu1aKnnkCV1PyYUtwfJwO15WlleUtfYaqybTHfK2NuHOpNelIVRGomz0hN68PCzClb6Wpr1qh5YsYxJXGADP2iCH3Qog1zMOX/vDLLo29oklGUA7TD+MYclwUBiLLP5hYXEc8vcFgfA==][oid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder]000000000000[AuthorizeEx][00 00 1c 20 00 00 00 00]0000000000
[05/26/2017][09:24:51.317][09:24:51][4099][139745124402944][Sm_Az_Message.cpp:828][Csm_Az_Message::FormatAttribute][s10/r235][oidcp:CASSO-OP][jacksaunders][oidcp:CASSO-OP_aj][oidcp:CASSO-OP]00000000000000000000[V,.....][Send response attribute 257, data size is 8]000000000000[unLadIdHuSelYj+PjmAfULR8PnXqXhhNQFFAlaropAznKONQuiqP7IP4I+8u5ziqAFCCHejdtNOCNQYDOzDOK5wzKwNPM8G1EVJbJzWxjvulV+Z+8ttmVxvtc9ef5YqnQAVSa+MewmY1VbRp69V9gbTjWKR+c6PE6ddc2eVjDMhMbMuAikAt/IG/0OMF1G+fbReKqA5zRdXHeOtG0075t0HpoEn5d1Ual/PQuaf1hIEPVxz10kIPhZNAvnjsI9VzNDiArRrYABYbyd1oLR+K2RCrEm9wkBJ5gNzX0UyuzNK/CNH/de4dgy2U2ip24dEFu1aKnnkCV1PyYUtwfJwO15WlleUtfYaqybTHfK2NuHOpNelIVRGomz0hN68PCzClb6Wpr1qh5YsYxJXGADP2iCH3Qog1zMOX/vDLLo29oklGUA7TD+MYclwUBiLLP5hYXEc8vcFgfA==][oid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder]000000000000[AuthorizeEx][00 00 1c 20 00 00 00 00]0000000000
[05/26/2017][09:24:51.317][09:24:51][4099][139745
```

Log detail getting and setting scoped claims:

```
[05/30/2017][14:37:28.998][14:37:28][49767][140665520289536][FedUserDisambigApi.cpp:1056][FedUserDisambigApi::getUserAttributes]
[mail = jack.saunders@ca.com]
[05/30/2017][14:37:28.998][14:37:28][49767][140665520289536][UserDisambiguator][getUserAttributes]
getUserAttributes Result: {mail=jack.saunders@ca.com}
[05/30/2017][14:37:28.998][14:37:28][49767][140665520289536][IDTokenGenerator.java][getClaims]
ng Claim: email UserAttribute: mail
[05/30/2017][14:37:28.998][14:37:28][49767][140665520289536][IDTokenGenerator.java][getUserClaims]
User claims: {email=jack.saunders@ca.com}
```

Client - Apache

httpd.conf	Comment out CA SSO webagent if present
##### CA SSO Agent ##### #LoadModule sm_module "C:/Program Files/CA/webagent/win64/bin/mod_sm24.dll" #SmInitFile "C:/Apache24/conf/WebAgent.conf" #	
httpd.conf	Add LoadModule statement
LoadModule authz_user_module modules/mod_authz_user.so LoadModule autoindex_module modules/mod_autoindex.so LoadModule cgi_module modules/mod_cgi.so LoadModule env_module modules/mod_env.so LoadModule auth_openidc_module modules/mod_auth_openidc.so	

httpd.conf	Configure Module
OIDCSSLValidateServer Off OIDCProviderIssuer https://sso.demo.com:7443 OIDCClientID 000d837a-2758-1927-816a-6283c0a84a7f OIDCClientSecret kRzBsOC9QJUX+ToLxOUKEPTZHAKwLZmngMyNRov6WsI= OIDCProviderAuthorizationEndpoint https://sso.demo.com:7443/affwebservices/CASSO/oidc/authorize OIDCProviderTokenEndpoint https://sso.demo.com:7443/affwebservices/CASSO/oidc/token OIDCRedirectURI http://win2012.demo.com/example/redirect OIDCCryptoPassphrase SomePassword OIDCProviderTokenEndpointAuth client_secret_post OIDCProviderJwksUri https://sso.demo.com:7443/affwebservices/CASSO/oidc/jwks?AuthorizationProvider=CASSO-OP <Location /example/> AuthType openid-connect Require valid-user </Location>	
Notes	OIDCSSLValidateServer Off – Is needed due to using a self-signed certificate

	OIDCProviderJwksUri – Is required as CA SSO does not generate HMAC signed tokens. As noted further above my signing algorithm is RS256. The OIDCProviderJwksUri provides the client a way to get the public key in order to perform signature validation.
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Apache ErrorLog Reference

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[Fri May 26 09:24:20.385841 2017] [auth_openidc:info] [pid 4208:tid 480] mod_auth_openidc-2.2.0 - init - OpenSSL 1.0.1o 12 Jun 2015, Elliptic Curve (EC)=yes, Galois Counter Mode (GCM)=yes, Redis=no
[Fri May 26 09:24:20.385841 2017] [auth_openidc:debug] [pid 4208:tid 480] shm.c(130): oidc_cache_shm_post_config: initialized shared memory with a cache size (# entries) of: 500, and a max (single) entry size of: 16913
[Fri May 26 09:24:20.385841 2017] [auth_openidc:debug] [pid 4208:tid 480] config.c(1642): oidc_config_check_vhost_config: enter
[Fri May 26 09:24:20.385841 2017] [auth_openidc:warn] [pid 4208:tid 480] oidc_check_config_openid_openidc: the URL scheme (http) of the configured OIDCRedirectURI SHOULD be "https" for security reasons (moreover: some Providers may reject non-HTTPS URLs)
[Fri May 26 09:24:20.401512 2017] [mpm_winnt:notice] [pid 4208:tid 480] AH00455: Apache/2.4.23 (Win64) configured -- resuming normal operations
[Fri May 26 09:24:20.401512 2017] [mpm_winnt:notice] [pid 4208:tid 480] AH00456: Apache Lounge VC14 Server built: Jul 1 2016 11:43:51
[Fri May 26 09:24:20.401512 2017] [core:notice] [pid 4208:tid 480] AH00094: Command line: 'C:\\Apache24\\bin\\httpd.exe -d C:/Apache24'
[Fri May 26 09:24:20.401512 2017] [core:debug] [pid 4208:tid 480] log.c(1543): AH02639: Using SO_REUSEPORT: no (0)
[Fri May 26 09:24:20.401512 2017] [mpm_winnt:notice] [pid 4208:tid 480] AH00418: Parent: Created child process 1464
[Fri May 26 09:24:20.401512 2017] [mpm_winnt:debug] [pid 4208:tid 480] mpm_winnt.c(429): AH00402: Parent: Sent the scoreboard to the child
[Fri May 26 09:24:20.558492 2017] [auth_openidc:info] [pid 1464:tid 412] mod_auth_openidc-2.2.0 - init - OpenSSL 1.0.1o 12 Jun 2015, Elliptic Curve (EC)=yes, Galois Counter Mode (GCM)=yes, Redis=no
[Fri May 26 09:24:20.558492 2017] [auth_openidc:debug] [pid 1464:tid 412] shm.c(130): oidc_cache_shm_post_config: initialized shared memory with a cache size (# entries) of: 500, and a max (single) entry size of: 16913
[Fri May 26 09:24:20.558492 2017] [auth_openidc:debug] [pid 1464:tid 412] config.c(1642): oidc_config_check_vhost_config: enter
[Fri May 26 09:24:20.558492 2017] [auth_openidc:warn] [pid 1464:tid 412] oidc_check_config_openid_openidc: the URL scheme (http) of the configured OIDCRedirectURI SHOULD be "https" for security reasons (moreover: some Providers may reject non-HTTPS URLs)
[Fri May 26 09:24:20.558492 2017] [mpm_winnt:debug] [pid 1464:tid 412] mpm_winnt.c(1718): AH00453: Child process is running
[Fri May 26 09:24:20.558492 2017] [mpm_winnt:debug] [pid 1464:tid 412] mpm_winnt.c(343): AH00391: Child: Retrieved our scoreboard from the parent.
[Fri May 26 09:24:20.558492 2017] [mpm_winnt:debug] [pid 1464:tid 412] mpm_winnt.c(465): AH00403: Child: Waiting for data for listening socket 0.0.0.0:80
[Fri May 26 09:24:20.558492 2017] [mpm_winnt:debug] [pid 4208:tid 480] mpm_winnt.c(512): AH00408: Parent: Duplicating socket 384 (0.0.0.0:80) and sending it to child process 1464
[Fri May 26 09:24:20.558492 2017] [mpm_winnt:debug] [pid 1464:tid 412] mpm_winnt.c(465): AH00403: Child: Waiting for data for listening socket [::]:80
[Fri May 26 09:24:20.558492 2017] [mpm_winnt:debug] [pid 4208:tid 480] mpm_winnt.c(512): AH00408: Parent: Duplicating socket 368 ([::]:80) and sending it to child process 1464
[Fri May 26 09:24:20.558492 2017] [mpm_winnt:debug] [pid 1464:tid 412] mpm_winnt.c(490): AH00407: Child: retrieved 2 listeners from parent
[Fri May 26 09:24:20.558492 2017] [mpm_winnt:debug] [pid 1464:tid 412] child.c(1020): AH00352: Child: Acquired the start mutex.
[Fri May 26 09:24:20.558492 2017] [mpm_winnt:notice] [pid 1464:tid 412] AH00354: Child: Starting 64 worker threads.
[Fri May 26 09:24:20.558492 2017] [mpm_winnt:debug] [pid 4208:tid 480] mpm_winnt.c(531): AH00411: Parent: Sent 2 listeners to child 1464
[Fri May 26 09:24:20.558492 2017] [mpm_winnt:debug] [pid 1464:tid 972] child.c(399): AH00334: Child: Accept thread listening on 0.0.0.0:80 using AcceptFilter data
[Fri May 26 09:24:20.558492 2017] [mpm_winnt:debug] [pid 1464:tid 992] child.c(399): AH00334: Child: Accept thread listening on [::]:80 using AcceptFilter data
[Fri May 26 09:24:36.854841 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57638] AH01626: authorization result of Require valid-user : denied (no authenticated user yet)
[Fri May 26 09:24:36.854841 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57638] AH01626: authorization result of <RequireAny>: denied (no authenticated user yet)
[Fri May 26 09:24:36.854841 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(3166): [client ::1:57638] oidc_check_user_id: incoming request: "/example/(null)", ap_is_initial_req(r)=1
[Fri May 26 09:24:36.854841 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(881): [client ::1:57638] oidc_util_get_cookie: returning "mod_auth_openidc_session" = <null>
[Fri May 26 09:24:36.854841 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1033): [client ::1:57638] oidc_util_request_matches_url: comparing "/example/"=="example/redirect"
[Fri May 26 09:24:36.854841 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(447): [client ::1:57638] oidc_get_current_url: current URL 'http://win2012.demo.com/example/'
[Fri May 26 09:24:36.854841 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(2031): [client ::1:57638] oidc_authenticate_user: enter
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[Fri May 26 09:24:36.854841 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1033): [client ::1:57638] oidc_util_request_matches_url: comparing "/example/"=="example/redirect"

[Fri May 26 09:24:36.854841 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(211): [client ::1:57638] oidc_get_browser_state_hash: enter

[Fri May 26 09:24:36.854841 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1783): [client ::1:57638] oidc_util_create_symmetric_key: key_len=32

[Fri May 26 09:24:36.979840 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1979): [client ::1:57638] oidc_util_hdr_err_out_add: Set-Cookie: mod_auth_openidc_state_AqPV1yMahfMhZfJw-EiceocEKLE=eyJhbGciOiAiZGlhYm9uYyI6ICJBMjU2R0NNIn0..jLQ3NmBx5ggej1UM.YrbvoCLQKJouKqrR9Xm5WbTlnP9aYE9ZhtiRsVMPKjeSnJ1ladLDD9-xP7gSwoctj8RwKWHP0ov9oOxdf1F7xHfT_S93YkrjXBk1UHGUmHauYmOU8jW4TX6ZY8q3RyZltkCINHeG92jpJNRfC-6AVJnNIFGpPUfOZROqIMo8JEBAG0CGCezkBgynDE5-HHZDit-ziddykkfZBQUXn7sxxvHEIPVzulmW0ALF2VXSba34v0hteJHl8TURYIERxbrfcojOEmiGBwdk2j9TqVlFD0Y3lydh5c9zaKvVTWWrYVv6exlZ_vfv21C8QchWqXBio1m0zzi3smlidVXOECC5XCpoUsiQxy11xUZqET_ziaChyka-LhbhXfkR7.8R6l8mAzyY88cRgsU8l_2Q; Path=/; HttpOnly

[Fri May 26 09:24:36.979840 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(415): [client ::1:57638] oidc_proto_authorization_request: enter, issuer=https://sso.demo.com:7443, redirect_uri=http://win2012.demo.com/example/redirect, state=AqPV1yMahfMhZfJw-EiceocEKLE, proto_state={"n":"cmmTYLda7tiYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI","ou":"http://win2012.demo.com/example/","rt":"code","i":"https://sso.demo.com:7443","om":"get","t":"1495805076"}, code_challenge=(null)

[Fri May 26 09:24:36.979840 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1961): [client ::1:57638] oidc_util_hdr_table_set: Location: https://sso.demo.com:7443/affwebservices/CASSO/oidc/authorize?response_type=code&scope=openid&client_id=000d837a-2758-1927-816a-6283c0a84a7f&state=AqPV1yMahfMhZfJw-EiceocEKLE&redirect_uri=http%3A%2F%2Fwin2012.demo.com%2Fexample%2Fredirect&nonce=cmmTYLda7tiYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI

[Fri May 26 09:24:50.777327 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57648] AH01626: authorization result of Require valid-user : denied (no authenticated user yet)

[Fri May 26 09:24:50.777327 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57648] AH01626: authorization result of <RequireAny>: denied (no authenticated user yet)

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(3166): [client ::1:57648] oidc_check_user_id: incoming request: "/example/redirect?state=AqPV1yMahfMhZfJw-EiceocEKLE&nonce=cmmTYLda7tiYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI&code=OGY3ZDE2MjUtOWEzZi00MzhhlTkzNzMtNmNlMGnkMWFI NjdlLWk3anNpZHI3bFhmc3BLVGyOOGdIOEVkcVd6Yz0=", ap_is_initial_req(r)=1

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(881): [client ::1:57648] oidc_util_get_cookie: returning "mod_auth_openidc_session" = <null>

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1033): [client ::1:57648] oidc_util_request_matches_url: comparing "/example/redirect"=="example/redirect"

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(1889): [client ::1:57648] oidc_handle_redirect_authorization_response: enter

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1317): [client ::1:57648] oidc_util_read_form_encoded_params: read: state=AqPV1yMahfMhZfJw-EiceocEKLE

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1317): [client ::1:57648] oidc_util_read_form_encoded_params: read: nonce=cmmTYLda7tiYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1317): [client ::1:57648] oidc_util_read_form_encoded_params: read: code=OGY3ZDE2MjUtOWEzZi00MzhhlTkzNzMtNmNlMGnkMWFI NjdlLWk3anNpZHI3bFhmc3BLVGyOOGdIOEVkcVd6Yz0=

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1323): [client ::1:57648] oidc_util_read_form_encoded_params: parsed: 177 bytes in to 3 elements

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(1719): [client ::1:57648] oidc_handle_authorization_response: enter, response_mode=query

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(1404): [client ::1:57648] oidc_authorization_response_match_state: enter (state=AqPV1yMahfMhZfJw-EiceocEKLE)

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(696): [client ::1:57648] oidc_restore_proto_state: enter

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(204): [client ::1:57648] oidc_util_jwt_verify: enter: JWT header={"alg": "dir", "enc": "A256GCM"}

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1783): [client ::1:57648] oidc_util_create_symmetric_key: key_len=32

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(881): [client ::1:57648] oidc_util_get_cookie: returning "mod_auth_openidc_state_AqPV1yMahfMhZfJw-EiceocEKLE" = "eyJhbGciOiAiZGlhYm9uYyI6ICJBMjU2R0NNIn0..jLQ3NmBx5ggej1UM.YrbvoCLQKJouKqrR9Xm5WbTlnP9aYE9ZhtiRsVMPKjeSnJ1ladLDD9-xP7gSwoctj8RwKWHP0ov9oOxdf1F7xHfT_S93YkrjXBk1UHGUmHauYmOU8jW4TX6ZY8q3RyZltkCINHeG92jpJNRfC-6AVJnNIFGpPUfOZROqIMo8JEBAG0CGCezkBgynDE5-HHZDit-ziddykkfZBQUXn7sxxvHEIPVzulmW0ALF2VXSba34v0hteJHl8TURYIERxbrfcojOEmiGBwdk2j9TqVlFD0Y3lydh5c9zaKvVTWWrYVv6exlZ_vfv21C8QchWqXBio1m0zzi3smlidVXOECC5XCpoUsiQxy11xUZqET_ziaChyka-LhbhXfkR7.8R6l8mAzyY88cRgsU8l_2Q"

[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1979): [client ::1:57648] oidc_util_hdr_err_out_add: Set-Cookie: mod_auth_openidc_state_AqPV1yMahfMhZfJw-EiceocEKLE=; Path=/; Expires=Thu, 01 Jan 1970 00:00:00 GMT; HttpOnly

```
[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(204): [client ::1:57648] oidc_util_jwt_verify: enter
header={"alg": "dir", "enc": "A256GCM"}
[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1783): [client ::1:57648] oidc_util_create_symmetric_key:
key_len=32
[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(211): [client ::1:57648]
oidc_get_browser_state_hash: enter
[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(750): [client ::1:57648]
oidc_restore_proto_state: restored state:
{"ou":"http://win2012.demo.com/example/","n":"cmmTYLda7tYkTCcWvWRNZIEyXWl3CGaYqBlvSDTjQl","om":"get","i":"https://sso.demo.com:7443","rt":"code","t":"1495805076","s":"AqPV1yMahfMhZfJw-EiceocEKLE"}
[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(2672): [client ::1:57648]
oidc_proto_handle_authorization_response_code: enter
[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(2480): [client ::1:57648]
oidc_proto_validate_issuer_client_id: iss and/or client_id matched OK: (null), https://sso.demo.com:7443, (null), 000d837a-2758-1927-816a-6283c0a84a7f
[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(1712): [client ::1:57648] oidc_proto_resolve_code:
enter
[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(1540): [client ::1:57648]
oidc_proto_token_endpoint_request: token_endpoint_auth=client_secret_post
[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(726): [client ::1:57648] oidc_util_http_post_form: post
data="grant_type=authorization_code&code=OGY3ZDE2MjUtOWEzZi00MzhhLTkzNzMtNmIzMGnkMWFInjdLWk3anNpZHI3bFhmc3BLVGyO
OGdIOEVkcVd6Yz0%3D&redirect_uri=http%3A%2F%2Fwin2012.demo.com%2Fexample%2Fredirect&state=AqPV1yMahfMhZfJw-
EiceocEKLE&client_id=000d837a-2758-1927-816a-6283c0a84a7f&client_secret=kRzBsOC9QJUX%2BT0LxOUKEPTZHAKwLZmngMyNRov6Wsl%3D"
[Fri May 26 09:24:50.777327 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(534): [client ::1:57648] oidc_util_http_call:
url=https://sso.demo.com:7443/affwebservices/CASSO/oidc/token,
data=grant_type=authorization_code&code=OGY3ZDE2MjUtOWEzZi00MzhhLTkzNzMtNmIzMGnkMWFInjdLWk3anNpZHI3bFhmc3BLVGyO
OGdIOEVkcVd6Yz0%3D&redirect_uri=http%3A%2F%2Fwin2012.demo.com%2Fexample%2Fredirect&state=AqPV1yMahfMhZfJw-
EiceocEKLE&client_id=000d837a-2758-1927-816a-6283c0a84a7f&client_secret=kRzBsOC9QJUX%2BT0LxOUKEPTZHAKwLZmngMyNRov6Wsl%3D, content_type=application/x-www-form-
urlencoded, basic_auth=(null), bearer_token=(null), ssl_validate_server=0
[Fri May 26 09:24:50.839336 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(670): [client ::1:57648] oidc_util_http_call: HTTP
response code=200
[Fri May 26 09:24:50.839336 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(675): [client ::1:57648] oidc_util_http_call:
response={"access_token":"NzFhMTA4ZmMtYjY0Zi00YWEzLTkxODMtYTl3OGVIMTBmMDNhLVZ0N0ptYjdMTnZlcUNrQ0RYb1YxdWpiSnY0bz
0=","id_token":"eyJraWQiOiIwMDA5YWUzNC0yNWZlTE5MjctODE2YS02MjgzYzBhODRhnN2YlClJhbGciOiJSUzI1NiJ9.eyJzdWIiOiI1aWQ9amFj
a3NhZW5kZXIzLzG91PUFkbWlucyxdT1wb2xpY3lzdG9yZSxvPVNpdGVNaW5kZXIiClJhdWQiOiIwMDA5YWUzNC0yNWZlTE5MjctODE2YS02Mj
gzYzBhODRhnN2YlClJhdXRoX3RpbWUiOiJ0E0TU4MDUwOTESlmlzcyGlmh0dHBzOlwvXC9zc28uZGVtbYj5jb206NzQ0MyIsImV4cCI6MTQ5NTgw
NTM5MSw5iaWF0IjoxNDkxODA1MDkxLzCub25jZS16ImNtbVRZTRHN3RjWUtoQ0N3VndSTlPjRlXjY0kzODdhWFxcBHZTRFRqUUKifQ.iaqNSah5
ShEWFlhd9wJtESD0g1wN2z5h4UT7G-vPH5-
SBvYxYRcT8WEevM3CvmKG52UaNFjlzWxl0N4AAjvUHpCwxpFZmiin8phATJEi9lQzcSWP0Had6xzCdhYgu1UNVISIXpmhJjKcziwEUAoo31xG
QLV0Jxkr-
CTRFf1s04mMQ5U70mbt6C6lTuxQYk4HXzGNN75Tm5cYILMvsNTmNwDkLctGYHTwKvXuZey_MNJVEi5LjE1FPgZceLhlgP_TygluyhJBXS4UWZ0
9QFnsW5DKhifbulnSjZWbld6ETcVJbVY3UvytR4syXGsjKL_e0scYsgw1grQz15VQ","expires_in":300,"token_type":"Bearer"}
[Fri May 26 09:24:50.855248 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(2321): [client ::1:57648]
oidc_proto_validate_code_response: enter
[Fri May 26 09:24:50.855248 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(1444): [client ::1:57648] oidc_proto_parse_idtoken:
enter: id_token header={"kid":"0009ae34-25a3-1927-816a-6283c0a84a7f","alg":"RS256"}
[Fri May 26 09:24:50.855248 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1783): [client ::1:57648] oidc_util_create_symmetric_key:
key_len=32
[Fri May 26 09:24:50.855248 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(1466): [client ::1:57648] oidc_proto_parse_idtoken:
successfully parsed (and possibly decrypted) JWT with header={"kid":"0009ae34-25a3-1927-816a-6283c0a84a7f","alg":"RS256"}, and
payload={"sub":"","uid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder","aud":"","000d837a-2758-1927-816a-6283c0a84a7f","auth_time":1495805091,"iss":"https://sso.demo.com:7443","exp":1495805391,"iat":1495805091,"nonce":"cmmTYLda
7tYkTCcWvWRNZIEyXWl3CGaYqBlvSDTjQl"}
[Fri May 26 09:24:50.855248 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1783): [client ::1:57648] oidc_util_create_symmetric_key:
key_len=44
[Fri May 26 09:24:50.855248 2017] [auth_openidc:debug] [pid 1464:tid 960] metadata.c(619): [client ::1:57648] oidc_metadata_jwks_get:
enter, jwks_uri=https://sso.demo.com:7443/affwebservices/CASSO/oidc/jwks?AuthorizationProvider=CASSO-OP, refresh=0
[Fri May 26 09:24:50.855248 2017] [auth_openidc:debug] [pid 1464:tid 960] common.c(518): [client ::1:57648] oidc_cache_get:
https://sso.demo.com:7443/affwebservices/CASSO/oidc/jwks?AuthorizationProvider=CASSO-OP (decrypt=0)
[Fri May 26 09:24:50.855248 2017] [auth_openidc:debug] [pid 1464:tid 960] shm.c(161): [client ::1:57648] oidc_cache_shm_get: enter,
section="j", key="https://sso.demo.com:7443/affwebservices/CASSO/oidc/jwks?AuthorizationProvider=CASSO-OP"
[Fri May 26 09:24:50.855248 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(534): [client ::1:57648] oidc_util_http_call:
url=https://sso.demo.com:7443/affwebservices/CASSO/oidc/jwks?AuthorizationProvider=CASSO-OP, data=(null), content_type=(null),
basic_auth=(null), bearer_token=(null), ssl_validate_server=0
```

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(670): [client ::1:57648] oidc_util_http_call: HTTP response code=200

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(675): [client ::1:57648] oidc_util_http_call: response={"keys":[{"kty":"RSA","e":"AQAB","use":"sig","kid":"0009ae34-25a3-1927-816a-6283c0a84a7f","n":"nXHw5WZDTAWryU8S-dQQA72ihljfXonBzIJApb45J8B7Q_HQdXiOruFTT6a-9ucTadzHzErXRfEPAX6XAIPOjvR_cc0aF7bBa4kUJcPIVX2v4BdPWYerRSQj3ohmutKoAasAjoyIBX4OINkjB_v5pSX_7TC4NRfhf2len976ri6q0JtuLv1Ps37Y7fVx6LxqEFmpy-zj-_veprSg_Xd-UehN0KHT8Isq_-YBbbkK-sOjoZplZinLMmcabOEElf3GeLuHo6GN76_bjwmyWlloXYe00RdmvLQHc1bSCI7JtXd2sOVC4HC3oTUEDe7He4tWKJffTaOB2VGdcwtrSZRQ"]}]}

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] common.c(556): [client ::1:57648] oidc_cache_set: enter: https://sso.demo.com:7443/affwebservices/CASSO/oidc/jwks?AuthorizationProvider=CASSO-OP=len(441) (encrypt=0)

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] shm.c(219): [client ::1:57648] oidc_cache_shm_set: enter, section="j", key="https://sso.demo.com:7443/affwebservices/CASSO/oidc/jwks?AuthorizationProvider=CASSO-OP", value size=%lu

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(1225): [client ::1:57648] oidc_proto_get_key_from_jwks: search for kid "0009ae34-25a3-1927-816a-6283c0a84a7f" or thumbprint x5t "(null)"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(1287): [client ::1:57648] oidc_proto_get_key_from_jwks: found matching kid: "0009ae34-25a3-1927-816a-6283c0a84a7f" for jwk: {"kty":"RSA","kid":"0009ae34-25a3-1927-816a-6283c0a84a7f","e":"AQAB","n":"nXHw5WZDTAWryU8S-dQQA72ihljfXonBzIJApb45J8B7Q_HQdXiOruFTT6a-9ucTadzHzErXRfEPAX6XAIPOjvR_cc0aF7bBa4kUJcPIVX2v4BdPWYerRSQj3ohmutKoAasAjoyIBX4OINkjB_v5pSX_7TC4NRfhf2len976ri6q0JtuLv1Ps37Y7fVx6LxqEFmpy-zj-_veprSg_Xd-UehN0KHT8Isq_-YBbbkK-sOjoZplZinLMmcabOEElf3GeLuHo6GN76_bjwmyWlloXYe00RdmvLQHc1bSCI7JtXd2sOVC4HC3oTUEDe7He4tWKJffTaOB2VGdcwtrSZRQ"}

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(1356): [client ::1:57648] oidc_proto_get_keys_from_jwks_uri: returning 1 key(s) obtained from the (possibly cached) JWKS URI

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(1401): [client ::1:57648] oidc_proto_jwt_verify: JWT signature verification with algorithm "RS256" was successful

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(1177): [client ::1:57648] oidc_proto_validate_idtoken: enter, jwt.header={"kid":"0009ae34-25a3-1927-816a-6283c0a84a7f","alg":"RS256"},"", jwt.payload={"sub":"uid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder","aud":"000d837a-2758-1927-816a-6283c0a84a7f","auth_time":1495805091,"iss":"https://sso.demo.com:7443","exp":1495805391,"iat":1495805091,"nonce":"cmmTYLda7tYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI"},"", nonce=cmmTYLda7tYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] common.c(518): [client ::1:57648] oidc_cache_get: enter: cmmTYLda7tYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI (decrypt=0)

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] shm.c(161): [client ::1:57648] oidc_cache_shm_get: enter, section="n", key="cmmTYLda7tYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] common.c(556): [client ::1:57648] oidc_cache_set: enter: cmmTYLda7tYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI=len(43) (encrypt=0)

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] shm.c(219): [client ::1:57648] oidc_cache_shm_set: enter, section="n", key="cmmTYLda7tYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI", value size=%lu

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(894): [client ::1:57648] oidc_proto_validate_nonce: nonce "cmmTYLda7tYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI" validated successfully and is now cached for 1210 seconds

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(990): [client ::1:57648] oidc_proto_validate_cnf: enter: policy=optional

[Fri May 26 09:24:50.902359 2017] [auth_openidc:warn] [pid 1464:tid 960] [client ::1:57648] oidc_proto_validate_cnf: no Provided Token Binding ID environment variable found

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] proto.c(1505): [client ::1:57648] oidc_proto_parse_idtoken: valid id_token for user "uid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder" expires: [Fri, 26 May 2017 13:29:51 GMT], in 301 secs from now)

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(1087): [client ::1:57648] oidc_retrieve_claims_from_userinfo_endpoint: enter

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(1092): [client ::1:57648] oidc_retrieve_claims_from_userinfo_endpoint: not retrieving userinfo claims because userinfo_endpoint is not set

[Fri May 26 09:24:50.902359 2017] [auth_openidc:error] [pid 1464:tid 960] [client ::1:57648] oidc_util_decode_json_object: JSON parsing returned an error: wrong arguments ((null))

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(1515): [client ::1:57648] oidc_get_remote_user: set user to "uid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder@sso.demo.com:7443"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(1565): [client ::1:57648] oidc_save_in_session: session management disabled: "check_session_iframe" is not set in provider configuration

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(1006): [client ::1:57648] oidc_store_userinfo_claims: enter

[Fri May 26 09:24:50.902359 2017] [auth_openidc:error] [pid 1464:tid 960] [client ::1:57648] oidc_util_decode_json_object: JSON parsing returned an error: wrong arguments ((null))

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(877): [client ::1:57648] oidc_log_session_expires: session max lifetime: Fri, 26 May 2017 21:24:50 GMT (in 28800 secs from now)

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] common.c(556): [client ::1:57648] oidc_cache_set: enter: 0dfe5f61-b7d0-e4b4f-b36f-2f96e7ea566e=len(1453) (encrypt=0)

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] shm.c(219): [client ::1:57648] oidc_cache_shm_set: enter, section="s", key="0dfe5f61-b7d0-e4b4f-b36f-2f96e7ea566e", value size=%lu

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1979): [client ::1:57648] oidc_util_hdr_err_out_add: Set-Cookie: mod_auth_openidc_session=0dfe5f61-b7d0-eb4f-b36f-2f96e7ea566e; Path=/; HttpOnly

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(1830): [client ::1:57648] oidc_handle_authorization_response: session created and stored, returning to original URL: http://win2012.demo.com/example/, original method: get

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1961): [client ::1:57648] oidc_util_hdr_table_set: Location: http://win2012.demo.com/example/

[Fri May 26 09:24:50.902359 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57648] AH01626: authorization result of Require valid-user : denied (no authenticated user yet)

[Fri May 26 09:24:50.902359 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57648] AH01626: authorization result of <RequireAny>: denied (no authenticated user yet)

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(3166): [client ::1:57648] oidc_check_user_id: incoming request: "/example/(null)", ap_is_initial_req(r)=1

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(881): [client ::1:57648] oidc_util_get_cookie: returning "mod_auth_openidc_session" = "0dfe5f61-b7d0-eb4f-b36f-2f96e7ea566e"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] common.c(518): [client ::1:57648] oidc_cache_get: enter: 0dfe5f61-b7d0-eb4f-b36f-2f96e7ea566e (decrypt=0)

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] shm.c(161): [client ::1:57648] oidc_cache_shm_get: enter, section="s", key="0dfe5f61-b7d0-eb4f-b36f-2f96e7ea566e"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1033): [client ::1:57648] oidc_util_request_matches_url: comparing "/example/"=="example/redirect"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(1319): [client ::1:57648] oidc_handle_existing_session: enter

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(877): [client ::1:57648] oidc_log_session_expires: session max lifetime: Fri, 26 May 2017 21:24:50 GMT (in 28800 secs from now)

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(978): [client ::1:57648] oidc_get_provider_from_session: enter

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(1183): [client ::1:57648] oidc_refresh_claims_from_userinfo_endpoint: userinfo_endpoint=(null), interval=0

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(1223): [client ::1:57648] oidc_copy_tokens_to_request_state: id_token={"sub":"uid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder","aud":"000d837a-2758-1927-816a-6283c0a84a7f","exp":1495805391,"iat":1495805091,"auth_time":1495805091,"iss":"https://sso.demo.com:7443","nonce":"cmmTYLda7tIYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI"} claims=(null)

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1961): [client ::1:57648] oidc_util_hdr_table_set: OIDC_CLAIM_sub: uid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1485): [client ::1:57648] oidc_util_set_app_info: setting environment variable "OIDC_CLAIM_sub: uid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1961): [client ::1:57648] oidc_util_hdr_table_set: OIDC_CLAIM_iat: 1495805091

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1485): [client ::1:57648] oidc_util_set_app_info: setting environment variable "OIDC_CLAIM_iat: 1495805091"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1961): [client ::1:57648] oidc_util_hdr_table_set: OIDC_CLAIM_exp: 1495805391

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1485): [client ::1:57648] oidc_util_set_app_info: setting environment variable "OIDC_CLAIM_exp: 1495805391"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1961): [client ::1:57648] oidc_util_hdr_table_set: OIDC_CLAIM_aud: 000d837a-2758-1927-816a-6283c0a84a7f

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1485): [client ::1:57648] oidc_util_set_app_info: setting environment variable "OIDC_CLAIM_aud: 000d837a-2758-1927-816a-6283c0a84a7f"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1961): [client ::1:57648] oidc_util_hdr_table_set: OIDC_CLAIM_auth_time: 1495805091

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1485): [client ::1:57648] oidc_util_set_app_info: setting environment variable "OIDC_CLAIM_auth_time: 1495805091"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1961): [client ::1:57648] oidc_util_hdr_table_set: OIDC_CLAIM_iss: https://sso.demo.com:7443

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1485): [client ::1:57648] oidc_util_set_app_info: setting environment variable "OIDC_CLAIM_iss: https://sso.demo.com:7443"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1961): [client ::1:57648] oidc_util_hdr_table_set: OIDC_CLAIM_nonce: cmmTYLda7tIYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1485): [client ::1:57648] oidc_util_set_app_info: setting environment variable "OIDC_CLAIM_nonce: cmmTYLda7tIYKtCCwVwRNZIEyXWI3CGaYqBlvSDTjQI"

[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1961): [client ::1:57648] oidc_util_hdr_table_set: OIDC_access_token: NzFhMTA4ZmMtYjY0Zi00YWEzLTkxODMtYTl3OGVIMTBMMDNhlVZON0ptYjdMTnZ1cUNrQ0RYb1YxdWpiSnY0bz0=

```
[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1485): [client ::1:57648] oidc_util_set_app_info: setting environment variable "OIDC_access_token: NzFhMTA4ZmMTYjY0Zi00YWVlZLTkxODMtYTl3OGVlMTBmMDNhLVZ0N0ptYjdMTnZ1cUNrQ0RYb1YxdWpiSnY0bz0="
[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1961): [client ::1:57648] oidc_util_hdr_table_set: OIDC_access_token_expires: 1495805390
[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1485): [client ::1:57648] oidc_util_set_app_info: setting environment variable "OIDC_access_token_expires: 1495805390"
[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(877): [client ::1:57648] oidc_log_session_expires: session inactivity timeout: Fri, 26 May 2017 13:29:50 GMT (in 299 secs from now)
[Fri May 26 09:24:50.902359 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57648] AH01626: authorization result of Require valid-user : granted
[Fri May 26 09:24:50.902359 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57648] AH01626: authorization result of <RequireAny>: granted
[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] config.c(1902): [client ::1:57648] oidc_auth_fixups: overlaying env with 9 elements
[Fri May 26 09:24:50.902359 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57648] AH01626: authorization result of Require valid-user : denied (no authenticated user yet)
[Fri May 26 09:24:50.902359 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57648] AH01626: authorization result of <RequireAny>: denied (no authenticated user yet)
[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(3166): [client ::1:57648] oidc_check_user_id: incoming request: "/example/index.html?(null)", ap_is_initial_req(r)=0
[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] mod_auth_openidc.c(3105): [client ::1:57648] oidc_check_userid_openidc: recycling user 'uid=jacksaunders,ou=Admins,ou=policystore,o=SiteMinder@sso.demo.com:7443' from initial request for sub-request
[Fri May 26 09:24:50.902359 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57648] AH01626: authorization result of Require valid-user : granted
[Fri May 26 09:24:50.902359 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57648] AH01626: authorization result of <RequireAny>: granted
[Fri May 26 09:24:50.902359 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1033): [client ::1:57648] oidc_util_request_matches_url: comparing "/example/"=="example/redirect"
[Fri May 26 09:24:50.949296 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57648] AH01626: authorization result of Require all granted: granted
[Fri May 26 09:24:50.949296 2017] [authz_core:debug] [pid 1464:tid 960] mod_authz_core.c(806): [client ::1:57648] AH01626: authorization result of <RequireAny>: granted
[Fri May 26 09:24:50.949296 2017] [auth_openidc:debug] [pid 1464:tid 960] util.c(1033): [client ::1:57648] oidc_util_request_matches_url: comparing "/favicon.ico"=="example/redirect"
[Fri May 26 09:24:50.949296 2017] [core:info] [pid 1464:tid 960] [client ::1:57648] AH00128: File does not exist: C:/Apache24/htdocs/favicon.ico
```

Troubleshooting

Failed to decrypt error.

Log reference from affwebservices.log:

```
[13236/139718074988288][Fri Jul 07 2017 22:08:43][SecureRedirect.java][ERROR][sm-FedClient-02890] Transaction with ID: fe7cd652-fa39573e-894ca117-e149112c-655d9628-ae4 failed. Reason: SERE_GET_EXCEPTION (, , )
[13236/139718074988288][Fri Jul 07 2017 22:08:43][SecureRedirect.java][ERROR][sm-FedClient-01660] Exception caught in class com.netegrity.affiliateminder.webservices.SecureRedirect, method doGet, message com.netegrity.siteminder.agentcommon.utils.k: Failed to decrypt.. (, )
```

Solution – Enable Secure Authentication

ODBC

Search Specification:

▪ Authorization Server Base URL:

▪ Authentication URL:

 ☒ Use Secure Authentication URL

▪ Authorization Code Expiry Time: Mins

Error trying to get Client Secret

Solution – Install the JRE Unlimited JCE security libraries for the CA Access Gateway