

Manual FAT Testing for Consent Cache
Reference: RTC Task 114840, 145533
Reference: Parent RTC Task: 111174

Initial Setup for Manual FAT Testing:

1. Build the com.ibm.ws.security.openidconnect.client-1.0_fat project.
 - a. This should create 2 servers:
 - i. com.ibm.ws.security.openidconnect.client-1.0_fat.op (OpenID Provider server)
 - ii. com.ibm.ws.security.openidconnect.client-1.0_fat.rp (Relying Party server)
 - b. Modify the com.ibm.ws.security.openidconnect.client-1.0_fat.rp server configuration (Relying Party server):

```
<server>
  <include location="imports/oidcClientFeatures.xml"/>
  <include
location="imports/oidcClientBasicConfig.xml"/>
  <include location="imports/goodBasicRegistry.xml"/>
  <include location="imports/goodSSLSettings.xml"/>
  <include location="imports/formlogin_1.xml"/>
  <include location="../fatTestPorts.xml" />
  <webAppSecurity logoutOnHttpSessionExpire="false"
ssoCookieName="OIDC_RP1_sso" />
</server>
```
 - c. Modify the com.ibm.ws.security.openidconnect.client-1.0_fat.op server configuration (OpenID Provider server):

```
<server>
  <include location="imports/oidcServerFeatures.xml"/>
  <include location="imports/goodBasicRegistry.xml"/>
  <include location="imports/goodSSLSettings.xml"/>
  <include location="imports/miscNoSslSettings.xml"/>
  <include location="imports/oauthRoles_1.xml"/>
  <include location="imports/oauthProvider_consent.xml"/>
  <httpEndpoint host="localhost" httpPort="8998"
httpsPort="8999" id="defaultHttpEndpoint"/>
</server>
```
 - d. Start the com.ibm.ws.security.openidconnect.client-1.0_fat.rp (Relying Party) server:
 - i. `<workspace path>\build.image\wlp\bin\server start`
`<workspace`
`path>\build.image\wlp\usr\servers\com.ibm.ws.security.op`
`enidconnect.client-1.0.fat_rp`
 - e. Start the com.ibm.ws.security.openidconnect.client-1.0_fat.op (OpenID Provider) server:
 - i. `<workspace path>\build.image\wlp\bin\server start`
`<workspace`
`path>\build.image\wlp\usr\servers\com.ibm.ws.security.op`
`enidconnect.client-1.0.fat_op`

Manual FAT Testing Scenarios:

2. Test 001 – Test_Consent_Cancel

- a. Access <http://localhost:8946/formlogin/SimpleServlet>.
- b. Specify a user and password that has been declared in the basic user registry in the Relying Party's server configuration, for example, testuser/testuserpwd, when prompted for credentials.

Enter your username and password to login

Username:

Password:

- c. On a successful login, you should see the following consent cache prompt:

Allow client **client01** to access the following data:

☒ openid

☒ profile

- d. Select "Cancel." In the browser, you should see the message, "CWWKS1711E: The request has been denied by the user, or another error occurred that resulted in denial of the request".
- e. The RP server messages.log file should contain the following message for the system administrator, "CWWKS1710E: the OpenID Connect request has been denied by the user, or another error occurred that resulted in denial of the request."

3. Test 002 – Test_Consent_Allow_Once

- a. Access <http://localhost:8946/formlogin/SimpleServlet>.
- b. Specify a user and password that has been declared in the basic user registry in the Relying Party's server configuration, for example, testuser/testuserpwd, when prompted for credentials.

Enter your username and password to login

Username:

Password:

- c. On a successful login, you should see the following consent cache prompt:

Allow client **client01** to access the following data:

☒ openid

☒ profile

Allow, remember my decision

Allow once

Cancel

d. Select "Allow once." This should display the following:

```
ServletName: FormLoginServlet
Request type: GET
getAuthType: FORM
getRemoteUser: testuser
getUserPrincipal: WSPincipal:testuser
getUserPrincipal().getName(): testuser
isUserInRole(Employee): true
isUserInRole(Manager): true
You can customize the isUserInRole call with the follow
paramter: ?role=name
isUserInRole(null): false
Getting cookies
cookie: WASReqURLoidc value:
https://localhost:8946/formlogin/SimpleServlet
cookie: WASOidcStateKey value: KMOVs2fy4yh9i8oxtbLF
cookie: JSESSIONID value: 00004K-RTRbVR2MR0BSyBCU00kT:cb5673b2-
9204-464a-ad4b-22877ce01b75
cookie: WAS_n585206240 value:
EVNT9RiGhS55bdsxEQDAKrrOdMDBKGODnJh9AUR6+jObDnmffTb00n9m4txjjluJ
aTQiUGYKTKt2GAuewWQevwfZFo8tCffuORz1+GFot1X1lo9Q+2RdKkwcPIenAErV
TijH3KJ50Wl3t1m99zS5zmE5EX3ihToEhJCrz4/Kilb2fZtOpI3Z4ZniqyoeW009
UxiRciwp9Wjlm196U+2El/PW+b2k3TPYt5Jw45FREISQWN3TLyVHo/Jhbu/nFzNj
s004TWqnUndYP6Tgo34Gv2ar94NWbxGiHnO6POYAi3YRzY5aSX8fjXEm12f6Uk7q
cookie: WASOidcCode value:
rO0ABXNyABNqYXZhLnV0aWwuSGFzaHRhYmx1E7sPJ5FK5LgDAAJGAAPsb2FkRmFj
dG9ySQAjdGhyZXNob2xkeHA/QAAAAAACHcIAAAACwAAAAAJ0AARjb2RldAAeSHhB
MFNsd2VDbGhGY083UVJVVmsyYWh1VDEzWEVudAAFc3RhdGV0ABRxcGlS2kbzbhH
dXAzUUd0MndSZXg=
getRequestURL: https://localhost:8946/formlogin/SimpleServlet
MY callerSubject:
Subject:
    Principal: WSPincipal:testuser
    Public Credential:
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275,
refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q
, scope=openid profile, token_type=Bearer,
access_token=Q8cxcDwCQGZVvm2UglQ6G6Ej5U9jr2eGaWX7Uqxj,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Oj
g5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGxlIiwiaWF0IjoxNDEyMj
c2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjU3OSwiYXVkIjoib2Rld
xpZW50MDEiLCJyZWVsbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdH
l0YW11Ijoib2VzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZ1SS1KT1U0RmJkdW
pBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}
    Public Credential:
com.ibm.ws.security.credentials.wscred.internal.WSCredentialImpl
```

```
@54235423, realmName=BasicRealm, securityName=testuser, realmSecurityName=BasicRealm/testuser, uniqueSecurityName=testuser, primaryGroupId=null, accessId=user:BasicRealm/testuser, groupIds=[]
```

```
Private Credential:
```

```
IDToken:iss=http://localhost:8940/oidc/endpoint/OidcConfigSample, client_id=client01, sub=testuser, aud=client01, exp=1412283579, iat=1412276379, at_hash=oczVPg-VuI-JOU4FbdujAQ, iss=http://localhost:8940/oidc/endpoint/OidcConfigSample
```

```
Private Credential:
```

```
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275, refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q, scope=openid profile, token_type=Bearer, access_token=Q8cxcDwCQGZVvm2UglQ6G6Ej5U9jr2eGaWX7Uqxj, id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGxlIiwiaWF0IjoxNDEyMjc2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkiJoiY2xpZW50MDEiLCJyZWZsbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW11IjoiaGVzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZlSS1KT1U0RmJkdWpBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}
```

```
Private Credential:
```

```
com.ibm.ws.security.token.internal.SingleSignonTokenImpl@221d221d
```

```
break 1
```

```
callerCredential One:
```

```
com.ibm.ws.security.credentials.wscred.internal.WSCredentialImpl@54235423, realmName=BasicRealm, securityName=testuser, realmSecurityName=BasicRealm/testuser, uniqueSecurityName=testuser, primaryGroupId=null, accessId=user:BasicRealm/testuser, groupIds=[]
```

```
priv cred: []
```

```
priv cred size: 0
```

```
default priv cred:
```

```
[IDToken:iss=http://localhost:8940/oidc/endpoint/OidcConfigSample, client_id=client01, sub=testuser, aud=client01, exp=1412283579, iat=1412276379, at_hash=oczVPg-VuI-JOU4FbdujAQ, iss=http://localhost:8940/oidc/endpoint/OidcConfigSample, {com.ibm.wsspi.security.cred.cacheKey=testuser1980218275, refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q, scope=openid profile, token_type=Bearer, access_token=Q8cxcDwCQGZVvm2UglQ6G6Ej5U9jr2eGaWX7Uqxj, id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGxlIiwiaWF0IjoxNDEyMjc2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkiJoiY2xpZW50MDEiLCJyZWZsbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW11IjoiaGVzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZlSS1KT1U0RmJkdWpBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}, com.ibm.ws.security.token.internal.SingleSignonTokenImpl@221d221d]
```

```
default priv cred size: 3
```

```
callerToken One: []
```

```
break 2
```

```
RunAs subject: Subject:
```

```
Principal: WSPrincipal:testuser
```

```
Public Credential:
```

```
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275, refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q, scope=openid profile, token_type=Bearer,
```

```
access_token=Q8cxcDwCQGZVvm2Ug1Q6G6Ej5U9jr2eGaWX7Uqxj,  
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGxlIiwiaWF0IjoxNDEyMjc2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkiJoiY2xpZW50MDEiLCJyZWZsbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW11IjoidGVzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZ1SS1KT1U0RmJkdWpBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}
```

Public Credential:

```
com.ibm.ws.security.credentials.wscred.internal.WSCredentialImpl  
@54235423, realmName=BasicRealm, securityName=testuser, realmSecurityName=BasicRealm/testuser, uniqueSecurityName=testuser, primaryGroupId=null, accessId=user:BasicRealm/testuser, groupIds=[]
```

Private Credential:

```
IDToken:iss=http://localhost:8940/oidc/endpoint/OidcConfigSample  
, client_id=client01, sub=testuser, aud=client01,  
exp=1412283579, iat=1412276379, at_hash=oczVPg-VuI-JOU4FbdujAQ,  
iss=http://localhost:8940/oidc/endpoint/OidcConfigSample
```

Private Credential:

```
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275,  
refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q  
, scope=openid profile, token_type=Bearer,  
access_token=Q8cxcDwCQGZVvm2Ug1Q6G6Ej5U9jr2eGaWX7Uqxj,  
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGxlIiwiaWF0IjoxNDEyMjc2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkiJoiY2xpZW50MDEiLCJyZWZsbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW11IjoidGVzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZ1SS1KT1U0RmJkdWpBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}
```

Private Credential:

```
com.ibm.ws.security.token.internal.SingleSignonTokenImpl@221d221d
```

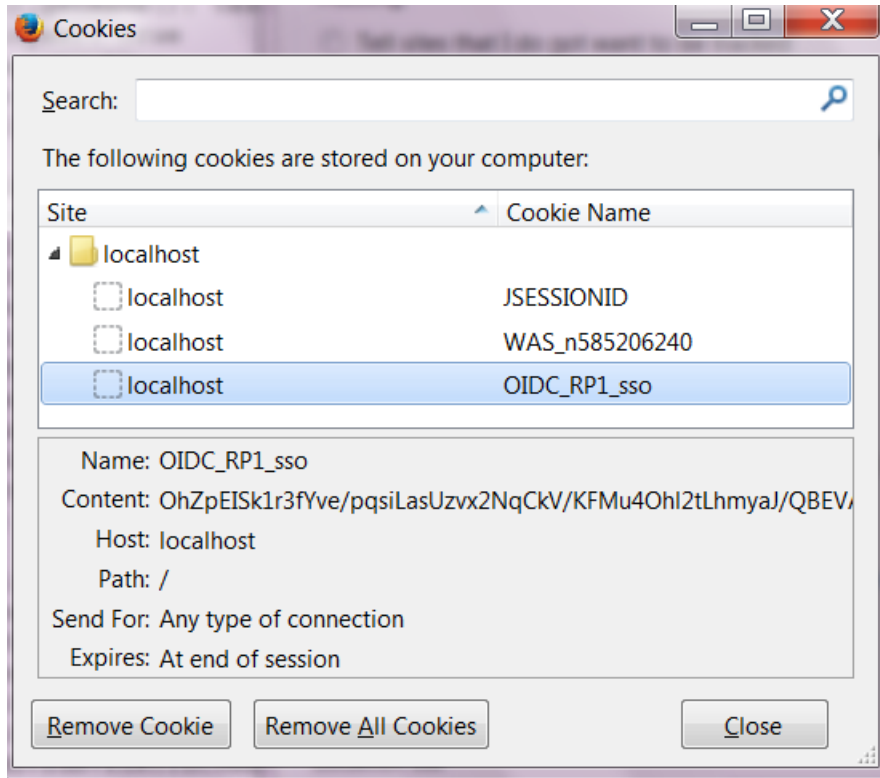
NoClassDefFoundError for SubjectManager:

java.lang.NoClassDefFoundError:

com.ibm.ws.security.authentication.utility.SubjectHelper

(Note the NoClassDefFoundError is expected)

- e. From the Firefox browser, remove the RP SSO cookie. Select Tools, select Options, and then select Privacy. From the History box, click to “remove individual cookies.” Expand the entry under localhost and scroll down to select the cookie named OIDC1_RP_SSO. Select this line and press “Remove Cookie.” Then press Close. Finally press OK.



- f. Access <http://localhost:8946/formlogin/SimpleServlet>.
- g. As expected, the login prompt is not displayed again because the OP cookie remembers that the login has been completed previously. You should see the following consent cache prompt again as you only elected to allow access once:

Allow client **client01** to access the following data:

☒ openid

☒ profile

4. Test 003 - Test Consent Allow And Remember

- a. Access <http://localhost:8946/formlogin/SimpleServlet>.
- b. Specify a user and password that has been declared in the basic user registry in the Relying Party's server configuration, for example, testuser/testuserpwd, when prompted for credentials.

Enter your username and password to login

Username:

Password:

- c. On a successful login, you should see the following consent cache prompt:

Allow client **client01** to access the following data:

☒ openid

☒ profile

- d. Select "Allow, remember my decision." This should display the following:

```
ServletName: FormLoginServlet
Request type: GET
getAuthType: FORM
getRemoteUser: testuser
getUserPrincipal: WSPincipal:testuser
getUserPrincipal().getName(): testuser
isUserInRole(Employee): true
isUserInRole(Manager): true
You can customize the isUserInRole call with the follow
paramter: ?role=name
isUserInRole(null): false
Getting cookies
cookie: WASReqURLOidc value:
https://localhost:8946/formlogin/SimpleServlet
cookie: WASOidcStateKey value: KMOVVs2fy4yh9i8oxtbLF
cookie: JSESSIONID value: 00004K-RTRbVR2MR0BsyBCU00kT:cb5673b2-
9204-464a-ad4b-22877ce01b75
cookie: WAS_n585206240 value:
EVNT9RiGhS55bdsxEQDAKrrOdMDBKGODnJh9AUR6+jObDnmffTb00n9m4txjjluJ
aTQiUGYKTKt2GAuewWQevwfZFo8tCffuORz1+GFot1X1lo9Q+2RdKkwcPIenAErV
Tijh3KJ50Wl3t1m99zS5zmE5EX3ihToEhJCrz4/Kilb2fZtOpI3Z4ZniqyoeW009
UxiRciwp9Wjlm196U+2El/PW+b2k3TPYt5Jw45FREISQWN3TLYvHo/Jhbu/nFzNj
sO04TWqnUndYP6Tgo34Gv2ar94NWbxGiHnO6POYAi3YRzY5aSX8fjXEm12f6Uk7q
cookie: WASOidcCode value:
rO0ABXNyABNqYXZhLnV0aWwuSGFzaHRhYmx1E7sPJSFK5LgDAAJGApsb2FkRmFj
dG9ySQAjdGhyZXNob2xkeHA/QAAAAAACHcIAAAACwAAAAJ0AARjb2RldAAeSHhB
MFNsd2VDbGhGY083UVJVmsyYWh1VDEzWEVudAAFc3RhdGV0ABRxcGlps2kwzbzhH
dXAzUUd0MndSZXg=
getRequestURL: https://localhost:8946/formlogin/SimpleServlet
MY callerSubject:
Subject:
    Principal: WSPincipal:testuser
    Public Credential:
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275,
```

```
refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q
, scope=openid profile, token_type=Bearer,
access_token=Q8cxcDwCQGZVvm2UglQ6G6Ej5U9jr2eGaWX7Uqxj,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGx1IiwiaWF0IjoxNDEyMjc2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkiJoiY2xpZW50MDEiLCJyZWFSbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW11IjoibGVzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZlSS1KT1U0RmJkdWpBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}
```

Public Credential:

```
com.ibm.ws.security.credentials.wscred.internal.WSCredentialImpl
@54235423, realmName=BasicRealm, securityName=testuser, realmSecuri
tyName=BasicRealm/testuser, uniqueSecurityName=testuser, primaryGr
oupId=null, accessId=user:BasicRealm/testuser, groupIds=[]
```

Private Credential:

```
IDToken:iss=http://localhost:8940/oidc/endpoint/OidcConfigSample
, client_id=client01, sub=testuser, aud=client01,
exp=1412283579, iat=1412276379, at_hash=oczVPg-VuI-JOU4FbdujAQ,
iss=http://localhost:8940/oidc/endpoint/OidcConfigSample
```

Private Credential:

```
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275,
refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q
, scope=openid profile, token_type=Bearer,
access_token=Q8cxcDwCQGZVvm2UglQ6G6Ej5U9jr2eGaWX7Uqxj,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGx1IiwiaWF0IjoxNDEyMjc2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkiJoiY2xpZW50MDEiLCJyZWFSbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW11IjoibGVzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZlSS1KT1U0RmJkdWpBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}
```

Private Credential:

```
com.ibm.ws.security.token.internal.SingleSignonTokenImpl@221d221
d
```

break 1

callerCredential One:

```
com.ibm.ws.security.credentials.wscred.internal.WSCredentialImpl
@54235423, realmName=BasicRealm, securityName=testuser, realmSecuri
tyName=BasicRealm/testuser, uniqueSecurityName=testuser, primaryGr
oupId=null, accessId=user:BasicRealm/testuser, groupIds=[]
```

priv cred: []

priv cred size: 0

default priv cred:

```
[IDToken:iss=http://localhost:8940/oidc/endpoint/OidcConfigSampl
e, client_id=client01, sub=testuser, aud=client01,
exp=1412283579, iat=1412276379, at_hash=oczVPg-VuI-JOU4FbdujAQ,
iss=http://localhost:8940/oidc/endpoint/OidcConfigSample,
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275,
refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q
, scope=openid profile, token_type=Bearer,
access_token=Q8cxcDwCQGZVvm2UglQ6G6Ej5U9jr2eGaWX7Uqxj,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGx1IiwiaWF0IjoxNDEyMjc2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkiJoiY2xpZW50MDEiLCJyZWFSbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW11IjoibGVzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZlSS1KT1U0RmJkdWpBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs},
```



```

com.ibm.ws.security.token.internal.SingleSignonTokenImpl@221d221
d]
default priv cred size: 3
callerToken One: []
break 2
RunAs subject: Subject:
    Principal: WSPPrincipal:testuser
    Public Credential:
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275,
refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q
, scope=openid profile, token_type=Bearer,
access_token=Q8cxcDwCQGZVvm2UglQ6G6Ej5U9jr2eGaWX7Uqxj,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Oj
g5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGx1IiwiaWF0IjoxNDEyMj
c2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkJoiY2
xpZW50MDEiLCJyZWFSbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdH
l0YW11IjoiaGVzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZlSS1KT1U0RmJkdW
pBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}
    Public Credential:
com.ibm.ws.security.credentials.wscred.internal.WSCredentialImpl
@54235423, realmName=BasicRealm, securityName=testuser, realmSecuri
tyName=BasicRealm/testuser, uniqueSecurityName=testuser, primaryGr
oupId=null, accessId=user:BasicRealm/testuser, groupIds=[]
    Private Credential:
IDToken:iss=http://localhost:8940/oidc/endpoint/OidcConfigSample
, client_id=client01, sub=testuser, aud=client01,
exp=1412283579, iat=1412276379, at_hash=oczVPg-VuI-JOU4FbdujAQ,
iss=http://localhost:8940/oidc/endpoint/OidcConfigSample
    Private Credential:
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275,
refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q
, scope=openid profile, token_type=Bearer,
access_token=Q8cxcDwCQGZVvm2UglQ6G6Ej5U9jr2eGaWX7Uqxj,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Oj
g5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGx1IiwiaWF0IjoxNDEyMj
c2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkJoiY2
xpZW50MDEiLCJyZWFSbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdH
l0YW11IjoiaGVzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZlSS1KT1U0RmJkdW
pBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}
    Private Credential:
com.ibm.ws.security.token.internal.SingleSignonTokenImpl@221d221
d

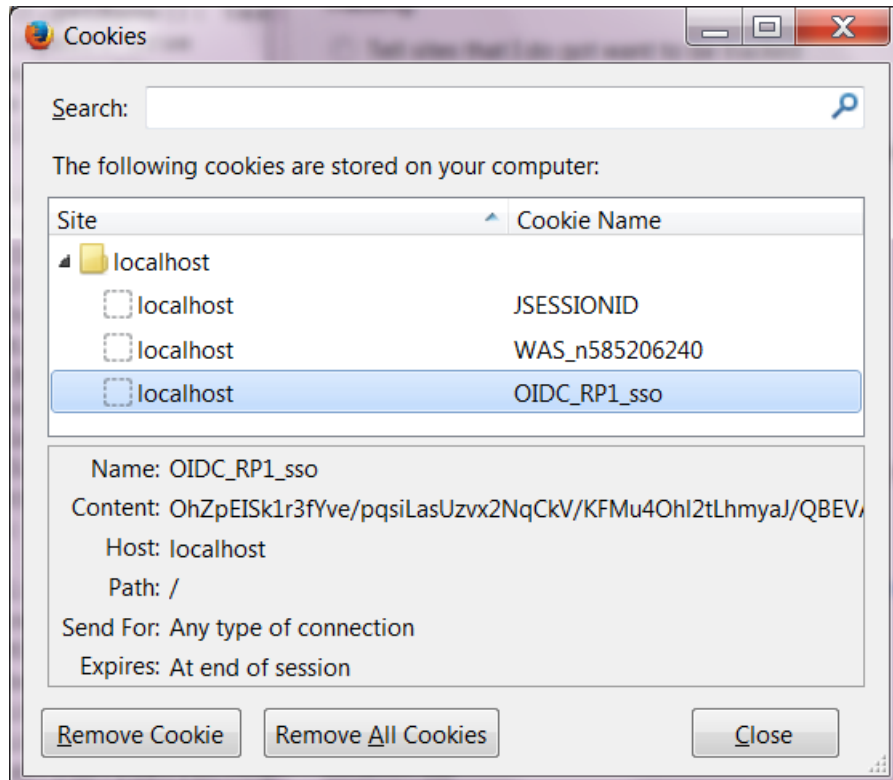
```

```

NoClassDefFoundError for SubjectManager:
java.lang.NoClassDefFoundError:
com.ibm.ws.security.authentication.utility.SubjectHel
per
(Note the NoClassDefFoundError is expected)

```

- e. From the Firefox browser, remove the RP SSO cookie. Select Tools, select Options, and then select Privacy. From the History box, click to “remove individual cookies.” Expand the entry under localhost and scroll down to select the cookie named OIDC1_RP_SSO. Select this line and press “Remove Cookie.” Then press Close. Finally press OK.



- f. Access <http://localhost:8946/formlogin/SimpleServlet>.
- g. You will not see the login form displayed again because the OP SSO cookie is still present. The consent prompt is not displayed again because you selected to “Allow, remember my decision.” You should see the servlet output displayed as follows:

```

ServletName: FormLoginServlet
ServletName: FormLoginServlet
Request type: GET
getAuthType: FORM
getRemoteUser: testuser
getUserPrincipal: WSPincipal:testuser
getUserPrincipal().getName(): testuser
isUserInRole(Employee): true
isUserInRole(Manager): true
You can customize the isUserInRole call with the follow
paramter: ?role=name
isUserInRole(null): false
Getting cookies
cookie: WASReqURLoidc value:
https://localhost:8946/formlogin/SimpleServlet
cookie: WASOidcStateKey value: KVVVs2fy4yh9i8oxtbLF
cookie: JSESSIONID value: 00004K-RTRbVR2MR0BsyBCU00kT:cb5673b2-
9204-464a-ad4b-22877ce01b75
cookie: WAS_n585206240 value:
EVNT9RiGhS55bdsxEQDAKrrOdMDBKGODnJh9AUR6+jObDnmffTb00n9m4txjjluJ

```

aTQiUGYKTKt2GAuewWQevwfZFo8tCffuORz1+GFot1X1lo9Q+2RdKkwcPIenAeRV
TijH3KJ50Wl3t1m99zS5zmE5EX3ihToEhJCrz4/Kilb2fztOpI3Z4ZniqyoeW009
UxiRciwp9Wjlm196U+2El/PW+b2k3TPYt5Jw45FREISQWN3TLyVHo/Jhbu/nFzNj
s004TWqnUndYP6Tgo34Gv2ar94NWbxGiHnO6POYAi3YRzY5aSX8fjXEm12f6Uk7q
cookie: WASOidcCode value:
r00ABXNyABNqYXZhLnV0aWwuSGFzaHRhYmxlE7sPJSFK5LgDAAJGApsb2FkRmFj
dG9ySQAjdGhyZXNob2xkeHA/QAAAAAACHcIAAAACwAAAAJ0AARjb2RldAAeSHhB
MFNsd2VDbGhGY083UVJVmsyYWhlVDEzWEVudAAFc3RhdGV0ABRxcGlps2kwzbzhH
dXAzUUd0MndSZXg=
getRequestURL: https://localhost:8946/formlogin/SimpleServlet
MY callerSubject:
Subject:

Principal: WSPrincipal:testuser

Public Credential:

```
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275,
refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q
, scope=openid profile, token_type=Bearer,
access_token=Q8cxcDwCQGZVvm2UglQ6G6Ej5U9jr2eGaWX7Uqxj,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Ojg5ND
Avb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGxliiwiaWF0IjoxNDEyMjc2Mzc5
LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkiJoiY2xpZW50MDEi
LCJyZWFSbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW11Ijoia
GVzdHVzZXIiLCJhdF90eXNoIjoib2N6VlBnLVZlSS1KT1U0RmJkdWpBUSJ9.52PTOb
p2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}
```

Public Credential:

```
com.ibm.ws.security.credentials.wscred.internal.WSCredentialImpl
@54235423, realmName=BasicRealm, securityName=testuser, realmSecuri
tyName=BasicRealm/testuser, uniqueSecurityName=testuser, primaryGr
oupId=null, accessId=user:BasicRealm/testuser, groupIds=[]
```

Private Credential:

```
IDToken:iss=http://localhost:8940/oidc/endpoint/OidcConfigSample
, client_id=client01, sub=testuser, aud=client01,
exp=1412283579, iat=1412276379, at_hash=oczVPg-VuI-JOU4FbdujAQ,
iss=http://localhost:8940/oidc/endpoint/OidcConfigSample
```

Private Credential:

```
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275,
refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q
, scope=openid profile, token_type=Bearer,
access_token=Q8cxcDwCQGZVvm2UglQ6G6Ej5U9jr2eGaWX7Uqxj,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Ojg5ND
Avb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGxliiwiaWF0IjoxNDEyMjc2Mzc5
LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkiJoiY2xpZW50MDEi
LCJyZWFSbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW11Ijoia
GVzdHVzZXIiLCJhdF90eXNoIjoib2N6VlBnLVZlSS1KT1U0RmJkdWpBUSJ9.52PTOb
p2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}
```

Private Credential:

```
com.ibm.ws.security.token.internal.SingleSignonTokenImpl@221d221
d
```

break 1

callerCredential One:

```
com.ibm.ws.security.credentials.wscred.internal.WSCredentialImpl
@54235423, realmName=BasicRealm, securityName=testuser, realmSecuri
tyName=BasicRealm/testuser, uniqueSecurityName=testuser, primaryGr
oupId=null, accessId=user:BasicRealm/testuser, groupIds=[]
```

priv cred: []

priv cred size: 0

```
default priv cred:
[IDToken:iss=http://localhost:8940/oidc/endpoint/OidcConfigSample, client_id=client01, sub=testuser, aud=client01,
exp=1412283579, iat=1412276379, at_hash=oczVPg-VuI-JOU4FbdujAQ,
iss=http://localhost:8940/oidc/endpoint/OidcConfigSample,
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275,
refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q
, scope=openid profile, token_type=Bearer,
access_token=Q8cxcDwCQGZVvm2Ug1Q6G6Ej5U9jr2eGaWX7Uqxj,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGx1IiwiaWF0IjoxNDEyMjc2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkiJoiY2xpZW50MDEiLCJyZWZsbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdH10YW11IjoiaGVzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZ1SS1KT1U0RmJkdWpBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs},
com.ibm.ws.security.token.internal.SingleSignonTokenImpl@221d221d]
default priv cred size: 3
callerToken One: []
break 2
RunAs subject: Subject:
Principal: WSPrincipal:testuser
Public Credential:
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275,
refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q
, scope=openid profile, token_type=Bearer,
access_token=Q8cxcDwCQGZVvm2Ug1Q6G6Ej5U9jr2eGaWX7Uqxj,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGx1IiwiaWF0IjoxNDEyMjc2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkiJoiY2xpZW50MDEiLCJyZWZsbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdH10YW11IjoiaGVzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZ1SS1KT1U0RmJkdWpBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}
Public Credential:
com.ibm.ws.security.credentials.wscred.internal.WSCredentialImpl@54235423, realmName=BasicRealm, securityName=testuser, realmSecurityName=BasicRealm/testuser, uniqueSecurityName=testuser, primaryGroupId=null, accessId=user:BasicRealm/testuser, groupIds=[]
Private Credential:
IDToken:iss=http://localhost:8940/oidc/endpoint/OidcConfigSample, client_id=client01, sub=testuser, aud=client01,
exp=1412283579, iat=1412276379, at_hash=oczVPg-VuI-JOU4FbdujAQ,
iss=http://localhost:8940/oidc/endpoint/OidcConfigSample
Private Credential:
{com.ibm.wsspi.security.cred.cacheKey=testuser1980218275,
refresh_token=bZFWWLa28yhyd01qFDJEw0AXdCz4YFZ5ihPlJvAsPnntY9mF7q
, scope=openid profile, token_type=Bearer,
access_token=Q8cxcDwCQGZVvm2Ug1Q6G6Ej5U9jr2eGaWX7Uqxj,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2FtcGx1IiwiaWF0IjoxNDEyMjc2Mzc5LCJzdWIiOiJ0ZXN0dXNlciIsImV4cCI6MTQxMjI4MzU3OSwiYXVkiJoiY2xpZW50MDEiLCJyZWZsbU5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdH10YW11IjoiaGVzdHVzZXIiLCJhdF9oYXNoIjoib2N6VlBnLVZ1SS1KT1U0RmJkdWpBUSJ9.52PTObp2jmZEh0qKSB5lVPXkty_WmZhG6hJuyiPHBHs}
Private Credential:
com.ibm.ws.security.token.internal.SingleSignonTokenImpl@221d221d
```

```
NoClassDefFoundError for SubjectManager:
java.lang.NoClassDefFoundError:
com.ibm.ws.security.authentication.utility.SubjectHel
per
```

(Note the NoClassDefFoundError is expected)

5. Test 004 – Test_Deselect_Profile_Allow_Once

- Access <http://localhost:8946/formlogin/SimpleServlet>.
- Specify a user and password that has been declared in the basic user registry in the Relying Party's server configuration, for example, testuser/testuserpwd, when prompted for credentials.

Enter your username and password to login

Username:

Password:

- On a successful login, you should see the following consent cache prompt:

Allow client **client01 to access the following data:**

☒ openid

☐ profile

- Deselect “profile” as shown above. Select “Allow once.” This should display the following (note, in both refreshTokens the scope should ONLY contain “openid”)

```
ServletName: FormLoginServlet
ServletName: FormLoginServlet
Request type: GET
getAuthType: FORM
getRemoteUser: testuser
getUserPrincipal: WSPrincipal:testuser
getUserPrincipal().getName(): testuser
isUserInRole(Employee): true
isUserInRole(Manager): true
You can customize the isUserInRole call with the
follow paramter: ?role=name
isUserInRole(null): false
Getting cookies
cookie: WASReqURLOidc value:
https://localhost:8946/formlogin/SimpleServlet
cookie: WASOidcStateKey value: iBG2MSTcRmckr7mi78dy
cookie: JSESSIONID value:
0000NJ6bPvjPcM74Wd9rPY94iWe:cb5673b2-9204-464a-ad4b-
22877ce01b75
```

```
cookie: WAS_n585206240 value:
KhBrE3wiwmdlgNfJ8O0nigoyjU+nPE3EnZQnn9kCcp//j6l2RL8Yo
5EO1bvRKLbix+H0C0gHWzevJXl0SjbTI8jg9Nj7L+tffikf5ZMdgE
bfA90hqvV0CGLh8qYY1Wsg4aad6q+TiVnuJzHHHW037Pf+6FQAfhM
+kcU/InGeD2wH7CSJb9hBmH2ROHOjE2VcCJ0pLHYHMGzqpAqBHoox
+VZh4jSNhrTpnsCSa690SgTXx8ZJbiocX4onVu+ZRWEXuUM7MU7rg
7QpB2AwIPhkexJYOFgWz3cVph0iOQZ2WDYjk+PFaqk3gRjj37spbF
8n
cookie: WASOidcCode value:
rO0ABXNyABNqYXZLnV0aWwuSGFzaHRhYmx1E7sPJSFK5LgDAAJGA
Apsb2FkRmFjdG9ySQAjdGhyZXNob2xkeHA/QAAAAAACHCIAAAACw
AAAAJ0AARjb2RldAAeQ0Zrb1kzaHZZSmFMV1lEU2N1OXVFNFlVaWh
SMjJ0dAAFc3RhdGV0ABRlejNvRFNCblhkQWhEMlJtUDZ4MXg=
getRequestURL:
https://localhost:8946/formlogin/SimpleServlet
MY callerSubject:
Subject:
    Principal: WSPincipal:testuser
    Public Credential:
{com.ibm.wsspi.security.cred.cacheKey=testuser1150247
713,
refresh_token=3yMeuozZr4aglj1yyKYV1Z0BXtrqdH6DCsiOYRa
lyTUijB82nX, scope=openid, token_type=Bearer,
access_token=s6A7ftIDt8xkMYiVJss9PqlARVaPHH6mOPTIcUdz
,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9
jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2Ft
cGx1IiwiaWF0IjoxNDEyMjYxMjYxMjYxMjYxMjYxMjYxMjYxMjYx
mV4cCI6MTQxMjYxMjYxMjYxMjYxMjYxMjYxMjYxMjYxMjYxMjYx
5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW1lIjo
idGVzdHVzZXIiLCJhdF9oYXNoIjoid0ZuVnJES29MN29tX0Y3Y1hI
VmhvZyJ9.Ed2TM5_Gj9jpkzoKUFgyBbQxyMHfFxTph7apLeopHLg}
    Public Credential:
com.ibm.ws.security.credentials.wscred.internal.WSCre
dentialImpl@3100310, realmName=BasicRealm, securityName
=testuser, realmSecurityName=BasicRealm/testuser, uniqu
eSecurityName=testuser, primaryGroupId=null, accessId=u
ser:BasicRealm/testuser, groupIds=[]
    Private Credential:
IDToken:iss=http://localhost:8940/oidc/endpoint/OidcC
onfigSample, client_id=client01, sub=testuser,
aud=client01, exp=1412277575, iat=1412270375,
at_hash=wFnVrDKoL7om_F7bXHVhog,
iss=http://localhost:8940/oidc/endpoint/OidcConfigSam
ple

    Private Credential:
{com.ibm.wsspi.security.cred.cacheKey=testuser1150247
713,
refresh_token=3yMeuozZr4aglj1yyKYV1Z0BXtrqdH6DCsiOYRa
lyTUijB82nX, scope=openid, token_type=Bearer,
access_token=s6A7ftIDt8xkMYiVJss9PqlARVaPHH6mOPTIcUdz
,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9
jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2Ft
cGx1IiwiaWF0IjoxNDEyMjYxMjYxMjYxMjYxMjYxMjYxMjYxMjYx
mV4cCI6MTQxMjYxMjYxMjYxMjYxMjYxMjYxMjYxMjYxMjYxMjYx
5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW1lIjo
idGVzdHVzZXIiLCJhdF9oYXNoIjoid0ZuVnJES29MN29tX0Y3Y1hI
VmhvZyJ9.Ed2TM5_Gj9jpkzoKUFgyBbQxyMHfFxTph7apLeopHLg}
```

```
5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHlOYW1lIjo
idGVzdHVzZXIiLCJhdF9oYXNoIjoid0ZuVnJES29MN29tX0Y3YlhI
VmhvZyJ9.Ed2TM5_Gj9jpkpzoKUFgyBbQxyMHfFxTph7apLeopHLg}
```

Private Credential:

```
com.ibm.ws.security.token.internal.SingleSignonTokenI
mpl@a2b0a2b
```

break 1

callerCredential One:

```
com.ibm.ws.security.credentials.wscred.internal.WSCre
dentialImpl@3100310, realmName=BasicRealm, securityName
=testuser, realmSecurityName=BasicRealm/testuser, uniqu
eSecurityName=testuser, primaryGroupId=null, accessId=u
ser:BasicRealm/testuser, groupIds=[]
```

priv cred: []

priv cred size: 0

default priv cred:

```
[IDToken:iss=http://localhost:8940/oidc/endpoint/Oidc
ConfigSample, client_id=client01, sub=testuser,
aud=client01, exp=1412277575, iat=1412270375,
at_hash=wFnVrDKoL7om_F7bXHVhog,
iss=http://localhost:8940/oidc/endpoint/OidcConfigSam
ple,
```

```
{com.ibm.wsspi.security.cred.cacheKey=testuser1150247
713,
```

```
refresh_token=3yMeuozZr4aglj1yyKYV1Z0BXtrqdH6DCsiOYRa
lyTUijB82nX, scope=openid, token_type=Bearer,
access_token=s6A7ftIDt8xkMYiVJss9Pq1ARVaPHH6mOPTIcUdz
```

```
,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9
jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2Ft
cGxlIiwiaWF0IjoxNDEyMjc1LCJzdWIiOiJ0ZXN0dXNlciIsI
mV4cCI6MTQxMjI3NzU3NSwiYXVkJoiY2xpZW50MDEiLCJyZWZsbU
5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHlOYW1lIjo
idGVzdHVzZXIiLCJhdF9oYXNoIjoid0ZuVnJES29MN29tX0Y3YlhI
VmhvZyJ9.Ed2TM5_Gj9jpkpzoKUFgyBbQxyMHfFxTph7apLeopHLg}
```

```
,
com.ibm.ws.security.token.internal.SingleSignonTokenI
mpl@a2b0a2b]
```

default priv cred size: 3

callerToken One: []

break 2

RunAs subject: Subject:

Principal: WSPincipal:testuser

Public Credential:

```
{com.ibm.wsspi.security.cred.cacheKey=testuser1150247
713,
```

```
refresh_token=3yMeuozZr4aglj1yyKYV1Z0BXtrqdH6DCsiOYRa
lyTUijB82nX, scope=openid, token_type=Bearer,
access_token=s6A7ftIDt8xkMYiVJss9Pq1ARVaPHH6mOPTIcUdz
```

```
,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9
jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2Ft
cGxlIiwiaWF0IjoxNDEyMjc1LCJzdWIiOiJ0ZXN0dXNlciIsI
mV4cCI6MTQxMjI3NzU3NSwiYXVkJoiY2xpZW50MDEiLCJyZWZsbU
5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHlOYW1lIjo
```

```
idGVzdHVzZXIiLCJhdF9oYXNoIjoid0ZuVnJES29MN29tX0Y3YlhI
VmhvZyJ9.Ed2TM5_Gj9jpkpzoKUFgyBbQxyMHfFxTph7apLeopHLg}
```

Public Credential:

```
com.ibm.ws.security.credentials.wscred.internal.WSCred
entialImpl@3100310, realmName=BasicRealm, securityName
=testuser, realmSecurityName=BasicRealm/testuser, uniqu
eSecurityName=testuser, primaryGroupId=null, accessId=u
ser:BasicRealm/testuser, groupIds=[]
```

Private Credential:

```
IDToken:iss=http://localhost:8940/oidc/endpoint/OidcC
onfigSample, client_id=client01, sub=testuser,
aud=client01, exp=1412277575, iat=1412270375,
at_hash=wFnVrDKoL7om_F7bXHVhog,
iss=http://localhost:8940/oidc/endpoint/OidcConfigSam
ple
```

Private Credential:

```
{com.ibm.wsspi.security.cred.cacheKey=testuser1150247
713,
refresh_token=3yMeuozZr4agljlyyKYV1Z0BXtrqdH6DCsiOYRa
lyTUijB82nX, scope=openid, token_type=Bearer,
access_token=s6A7ftIDt8xkMYiVJss9Pq1ARVaPHH6mOPTIcUdz
,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9
jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2Ft
cGx1IiwiaWF0IjoxNDEyMjYyOTYyOTYyOTYyOTYyOTYyOTYyOTYy
mV4cCI6MTQxMjYyOTYyOTYyOTYyOTYyOTYyOTYyOTYyOTYyOTYy
5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YXW1Ijo
idGVzdHVzZXIiLCJhdF9oYXNoIjoid0ZuVnJES29MN29tX0Y3YlhI
VmhvZyJ9.Ed2TM5_Gj9jpkpzoKUFgyBbQxyMHfFxTph7apLeopHLg}
```

Private Credential:

```
com.ibm.ws.security.token.internal.SingleSignonTokenI
mpl@a2b0a2b
```

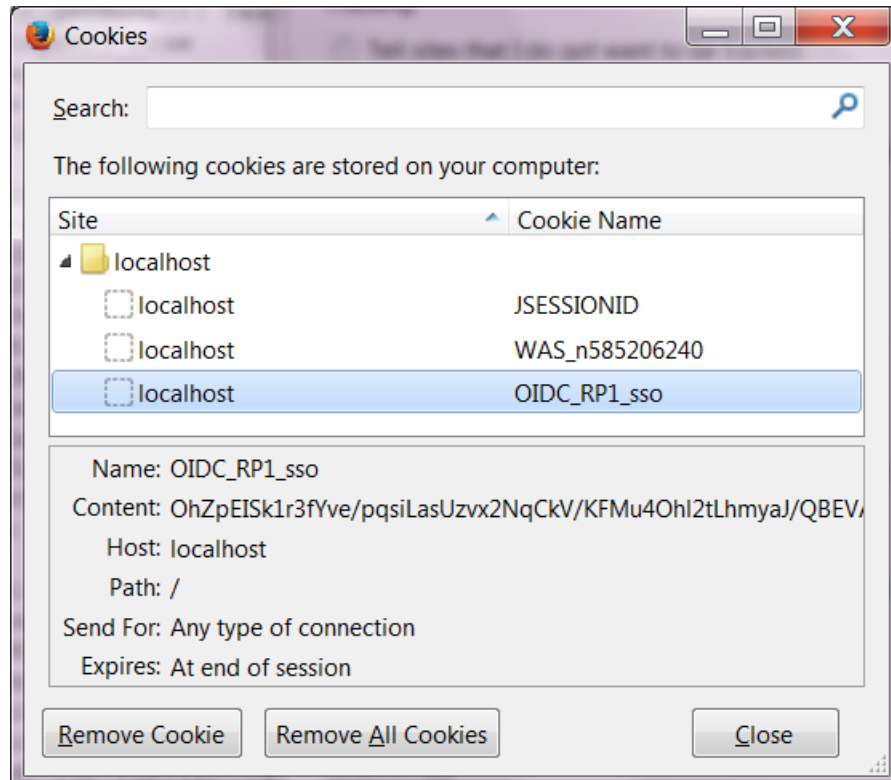
NoClassDefFoundError for SubjectManager:

java.lang.NoClassDefFoundError:

```
com/ibm/ws/security/authentication/utility/SubjectHel
per
```

(Note the NoClassDefFoundError is expected)

- e. From the Firefox browser, remove the RP SSO cookie. Select Tools, select Options, and then select Privacy. From the History box, click to “remove individual cookies.” Expand the entry under localhost and scroll down to select the cookie named OI1C1_RP_SSO. Select this line and press “Remove Cookie.” Then press Close. Finally press OK.



- f. Access <http://localhost:8946/formlogin/SimpleServlet>.
- g. The login prompt should not be displayed because the OP SSO cookie is still valid and the OP remembers the login was successful. You should see the following consent cache prompt, since you selected Allow once and that did not allow the consent form selection to be cached.

Allow client **client01** to access the following data:

☒ openid

☒ profile

Allow, remember my decision

Allow once

Cancel

6. Test 005 – Test Deselect_Profile_Allow_and_Remember

- a. Access <http://localhost:8946/formlogin/SimpleServlet>.
- b. Specify a user and password that has been declared in the basic user registry in the Relying Party's server configuration, for example, testuser/testuserpwd, when prompted for credentials.

Enter your username and password to login

Username:

Password:

- c. On a successful login, you should see the following consent cache prompt:

Allow client **client01** to access the following data:

☒ openid

☐ profile

- d. Deselect “profile” as shown above. Select “Allow, remember my decision.” This should display the following (Note: both refresh tokens should contain a scope value that only includes “openid”):

```
ServletName: FormLoginServlet
Request type: GET
getAuthType: FORM
getRemoteUser: testuser
getUserPrincipal: WSPincipal:testuser
getUserPrincipal().getName(): testuser
isUserInRole(Employee): true
isUserInRole(Manager): true
You can customize the isUserInRole call with the
follow paramter: ?role=name
isUserInRole(null): false
Getting cookies
cookie: WASReqURLoidc value:
https://localhost:8946/formlogin/SimpleServlet
cookie: WASOidcStateKey value: iBG2MSTcRmckr7mi78dy
cookie: JSESSIONID value:
0000NJ6bPvjPcM74Wd9rPY94iWe:cb5673b2-9204-464a-ad4b-
22877ce01b75
cookie: WAS_n585206240 value:
KhBrE3wiwmdlgNfJ8O0nigoyjU+nPE3EnZQnn9kCcp//j6l2RL8Yo
5EO1bvRKLbix+H0C0gHWzevJXl0SjbTI8jg9Nj7L+tfikf5ZMdge
bfA90hqvV0CGLh8qYYlWsg4aad6q+TiVnuJzHHHW037Pf+6FQAfhM
+kcU/InGeD2wH7CSJb9hBmH2ROHOjE2VcCJ0pLHYHMgZqpAqBHoox
+VZh4jSNhrTpnsCSa690SgTXx8ZJbiocX4onVu+ZRWEXuUM7MU7rg
7QpB2AwIPhkexJYOFgWz3cVph0iOQZ2WDYjk+PFAqk3gRjj37spbf
8n
cookie: WASOidcCode value:
rO0ABXNyABNqYXZhLnV0aWwuSGFzaHRhYmxle7sPJ5FK5LgDAAJGA
Apsb2FkRmFjdG9ySQAjGhyZXNob2xkeHA/QAAAAAACHcIAAAACw
AAAAJ0AARjb2RldAAEQ0Zrb1kzaHZZSmFMV11EU2N1OXVFNf1VaWh
SMjJ0dAAFc3RhdGV0ABRlejNvRFNCblhkQWhEM1JtUDZ4MXg=
getRequestURL:
https://localhost:8946/formlogin/SimpleServlet
```

```

MY callerSubject:
Subject:
    Principal: WSPrincipal:testuser
    Public Credential:
{com.ibm.wsspi.security.cred.cacheKey=testuser1150247
713,
refresh_token=3yMeuozZr4aglj1yyKYV1Z0BXtrqdH6DCsiOYRa
lyTUijB82nX, scope=openid, token_type=Bearer,
access_token=s6A7ftIDt8xkMYiVJss9PqlARVaPHH6mOPTIcUdz
,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9
jYWxob3N0Ojg5NDAvb2lkYy91bmRwb2ludC9PaWRjQ29uZmlnU2Ft
cGxlIiwiaWF0IjoxNDEyMjcwMzc1LCJzdWIiOiJ0ZXN0dXNlciIsI
mV4cCI6MTQxMjI3NzU3NSwiYXVkJoiY2xpZW50MDEiLCJyZWZsbU
5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW1lIjo
idGVzdHVzZXIiLCJhdF9oYXNoIjoid0ZuVnJES29MN29tX0Y3Y1hI
VmhvZyJ9.Ed2TM5_Gj9jKpzoKUFgyBbQxyMHfFxTph7apLeopHLg}
    Public Credential:
com.ibm.ws.security.credentials.wscred.internal.WSCre
dentialImpl@3100310, realmName=BasicRealm, securityName
=testuser, realmSecurityName=BasicRealm/testuser, uniqu
eSecurityName=testuser, primaryGroupId=null, accessId=u
ser:BasicRealm/testuser, groupIds=[]
    Private Credential:
IDToken:iss=http://localhost:8940/oidc/endpoint/OidcC
onfigSample, client_id=client01, sub=testuser,
aud=client01, exp=1412277575, iat=1412270375,
at_hash=wFnVrDKoL7om_F7bXHVhog,
iss=http://localhost:8940/oidc/endpoint/OidcConfigSam
ple

    Private Credential:
{com.ibm.wsspi.security.cred.cacheKey=testuser1150247
713,
refresh_token=3yMeuozZr4aglj1yyKYV1Z0BXtrqdH6DCsiOYRa
lyTUijB82nX, scope=openid, token_type=Bearer,
access_token=s6A7ftIDt8xkMYiVJss9PqlARVaPHH6mOPTIcUdz
,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9
jYWxob3N0Ojg5NDAvb2lkYy91bmRwb2ludC9PaWRjQ29uZmlnU2Ft
cGxlIiwiaWF0IjoxNDEyMjcwMzc1LCJzdWIiOiJ0ZXN0dXNlciIsI
mV4cCI6MTQxMjI3NzU3NSwiYXVkJoiY2xpZW50MDEiLCJyZWZsbU
5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW1lIjo
idGVzdHVzZXIiLCJhdF9oYXNoIjoid0ZuVnJES29MN29tX0Y3Y1hI
VmhvZyJ9.Ed2TM5_Gj9jKpzoKUFgyBbQxyMHfFxTph7apLeopHLg}
    Private Credential:
com.ibm.ws.security.token.internal.SingleSignonTokenI
mpl@a2b0a2b

break 1
callerCredential One:
com.ibm.ws.security.credentials.wscred.internal.WSCre
dentialImpl@3100310, realmName=BasicRealm, securityName
=testuser, realmSecurityName=BasicRealm/testuser, uniqu
eSecurityName=testuser, primaryGroupId=null, accessId=u
ser:BasicRealm/testuser, groupIds=[]
priv cred: []

```

```
priv cred size: 0
default priv cred:
[IDToken:iss=http://localhost:8940/oidc/endpoint/Oidc
ConfigSample, client_id=client01, sub=testuser,
aud=client01, exp=1412277575, iat=1412270375,
at_hash=wFnVrDKoL7om_F7bXHVhog,
iss=http://localhost:8940/oidc/endpoint/OidcConfigSam
ple,
{com.ibm.wsspi.security.cred.cacheKey=testuser1150247
713,
refresh_token=3yMeuozZr4aglj1yyKYV1Z0BXtrqdH6DCsiOYRa
lyTUijB82nX, scope=openid, token_type=Bearer,
access_token=s6A7ftIDt8xkMYiVJss9Pq1ARVaPHH6mOPTIcUdz
,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9
jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2Ft
cGxlIiwiaWF0IjoxNDEyMjcwMzc1LCJzdWIiOiJ0ZXN0dXNlciIsI
mV4cCI6MTQxMjI3NzU3NSwiYXVkJjoiY2xpZW50MDEiLCJyZWZsbU
5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHlOYW1lIjo
idGVzdHVzZXIiLCJhdF9oYXNoIjoid0ZuVnJES29MN29tX0Y3Y1hI
VmhvZyJ9.Ed2TM5_Gj9jpkpzoKUFgyBbQxyMHfFxTph7apLeopHLg}
,
com.ibm.ws.security.token.internal.SingleSignonTokenI
mpl@a2b0a2b]
default priv cred size: 3
callerToken One: []
break 2
RunAs subject: Subject:
Principal: WSPincipal:testuser
Public Credential:
{com.ibm.wsspi.security.cred.cacheKey=testuser1150247
713,
refresh_token=3yMeuozZr4aglj1yyKYV1Z0BXtrqdH6DCsiOYRa
lyTUijB82nX, scope=openid, token_type=Bearer,
access_token=s6A7ftIDt8xkMYiVJss9Pq1ARVaPHH6mOPTIcUdz
,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9
jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2Ft
cGxlIiwiaWF0IjoxNDEyMjcwMzc1LCJzdWIiOiJ0ZXN0dXNlciIsI
mV4cCI6MTQxMjI3NzU3NSwiYXVkJjoiY2xpZW50MDEiLCJyZWZsbU
5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHlOYW1lIjo
idGVzdHVzZXIiLCJhdF9oYXNoIjoid0ZuVnJES29MN29tX0Y3Y1hI
VmhvZyJ9.Ed2TM5_Gj9jpkpzoKUFgyBbQxyMHfFxTph7apLeopHLg}
Public Credential:
com.ibm.ws.security.credentials.wscred.internal.WSCre
dentialImpl@3100310, realmName=BasicRealm, securityName
=testuser, realmSecurityName=BasicRealm/testuser, uniqu
eSecurityName=testuser, primaryGroupId=null, accessId=u
ser:BasicRealm/testuser, groupIds=[]
Private Credential:
IDToken:iss=http://localhost:8940/oidc/endpoint/OidcC
onfigSample, client_id=client01, sub=testuser,
aud=client01, exp=1412277575, iat=1412270375,
at_hash=wFnVrDKoL7om_F7bXHVhog,
iss=http://localhost:8940/oidc/endpoint/OidcConfigSam
ple
```

```

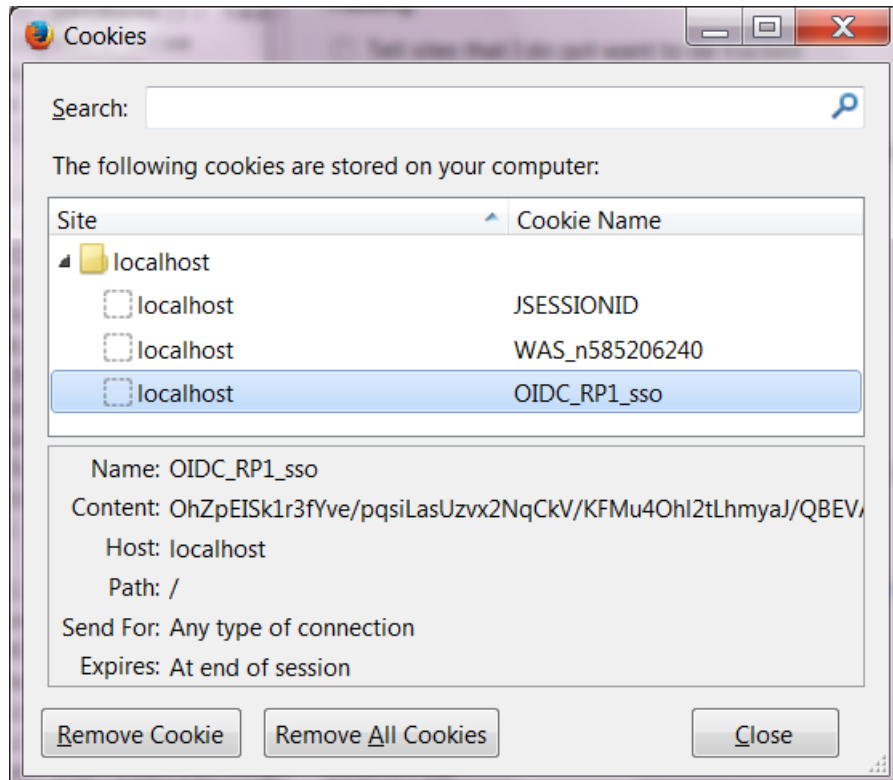
Private Credential:
{com.ibm.wsspi.security.cred.cacheKey=testuser1150247
713,
refresh_token=3yMeuozZr4aglj1yyKYV1Z0BXtrqdH6DCsiOYRa
lyTUijB82nX, scope=openid, token_type=Bearer,
access_token=s6A7ftIDt8xkMYiVJss9PqlARVaPHH6mOPTIcUdz
,
id_token=eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vbG9
jYWxob3N0Ojg5NDAvb2lkYy9lbmRwb2ludC9PaWRjQ29uZmlnU2Ft
cGxlIiwiaWF0IjoxNDEyMjcwMzc1LCJzdWIiOiJ0ZXN0dXNlciIsI
mV4cCI6MTQxMjI3NzU3NSwiYXVkiJoiY2xpZW50MDEiLCJyZWFSbU
5hbWUiOiJCYXNpY1JlYWxtIiwidW5pcXVlU2VjdXJpdHl0YW1lIjo
idGVzdHVzZXIiLCJhdF9oYXNoIjoid0ZuVnJES29MN29tX0Y3Y1hI
VmhvZyJ9.Ed2TM5_Gj9jpkpzoKUFgyBbQxyMHfFxTph7apLeopHLg}
Private Credential:
com.ibm.ws.security.token.internal.SingleSignonTokenI
mpl@a2b0a2b

NoClassDefFoundError for SubjectManager:
java.lang.NoClassDefFoundError:
com/ibm/ws/security/authentication/utility/SubjectHel
per

```

(Note the NoClassDefFoundError is expected)

- e. From the Firefox browser, remove the RP SSO cookie. Select Tools, select Options, and then select Privacy. From the History box, click to “remove individual cookies.” Expand the entry under localhost and scroll down to select the cookie named OIDC1_RP_SSO. Select this line and press “Remove Cookie.” Then press Close. Finally press OK.



- f. Access <http://localhost:8946/formlogin/SimpleServlet>.
- g. The login prompt should not be displayed because the OP SSO cookie is still valid and the OP remembers the login was successful.
- h. You should see the following consent cache prompt with both openid and profile checked. The openid scopes previously allowed are remembered from the last selection with "Allow, remember my decision". Since profile was deselected, and the new request contains both openid and profile scopes, you are asked again about both scopes (the remembered scope of openid and the profile scope).

Allow client **client01** to access the following data:

☒ openid

☒ profile