As far as you are concern there is no user. Enter OAuth; it is a standard at allows an application to access data that a user holds in a 3rd party application. In order to access the data, the user first have to authenticated into that 3rd party application; once we pass the authentication stage, then we are authorized to access the data. The really nice thing about OAuth is that you never have to reveal your username or password to the application. A use case might be an application would like a user's valid email; one source of this might be from Google. So by using OAuth, the user can authorize Google to release this piece of information to the application. For more details on DAuth watch this video. For the remainder of this blog, we will look at 1. how to use Google's OAuth2 provider for authentication and authorization; we'll look at what are the	Try MongoDB realm for Glassfish (and Payara) bit.ly/1vmgOke 2 years ago Build a Yet Another Weather App with the Angular
1. how to use Google's OAuth2 provider for authentication and authorization; we'll look at what are the information/resources we can release and how to go about doing that 2. how to integrate/use Google's OAuth2 as our authentication mechanism for a web application. Register and Configure Your Application To start using Google as our OAuth2 provider, you'll need first do the following list of things 1. Create a project or service account (in Google) 2. Create a new client id 3. Select the information/resources that your application wishes to use 4. Optionally, configure the consent screen Here is how everything hangs together:	Workshop Kit oneminutedistraction.wordpress.com/2014/10/14/ang 2 years ago ▼ Follow @1MinDistraction All the screencast in one place The One Minute Distraction Channel The Lair of the Jabberwocky Project home
1. An user Fred, attempts to access some restricted resources/page on the JavaEE application. The JavaEE application server determines that Fred need to first login. 2. The web application redirect Fred to Google's login page. Fred proceeds logins to his Google account; if Fred has already login to his account, then he will not need to relogin. 3. After Fred has successfully login, Google OAuth2 provider will display the consent page. The consent page provides details about the web application and more importantly what resources is it trying to access, eg Fred's email and Google+ id, his drive, etc. 4. If Fred consents, Google now redirects the browser back to our web application Now lets look at these steps in greater detail.	 My Posts January 2016 (1) November 2015 (2) July 2015 (1) June 2015 (1)
epresentation in Google's universe. When a user gives permission to our JavaEE application to access his email, the user is actually giving permission to this project. Coogle Developers Console	January 2015 (1) November 2014 (1) October 2014 (1) September 2014 (1) July 2014 (1) June 2014 (1) May 2014 (1) April 2014 (1) March 2014 (1)
In the example above, my project's name is Gatekeeper and the project id is gatekeeper-sg1. Go into the project by clicking on the project's name. On the left hand side, expand 'API & auth' menu item and you should see APIs, Credentials and Consent Screen. To create client id, click on Credentials, followed by clicking on CREATE NEW CLIENT ID. Create Client ID Application type	February 2014 (2) January 2014 (1) September 2013 (1) August 2013 (1) March 2013 (1) January 2013 (1) December 2012 (1) November 2012 (1) October 2012 (1)
Web application Accessed by web browsers over a network. Service account Calls Google APIs on behalf of your application instead of an end-user. Learn more Installed application Runs on a desktop computer or handheld device (like Android or iPhone). Authorized JavaScript origins Cannot contain a wildcard (http://*.example.com) or a path (http://example.com/subdir). http://localhost:8080	September 2012 (3) August 2012 (1) July 2012 (1) May 2012 (1) March 2012 (1) February 2012 (1) January 2012 (2) December 2011 (1) November 2011 (1)
Authorized redirect URI http://localhost:8080/mywebapp/oauth2callback Create Client ID Cancel Decide on the type of application you are developing. In our case its going to be a web application. Next you'll have to configure 2 pieces of additional information associated with Web Application. The Authorized JavaScript is your application's address in this case is the application's domain. Since I'm writing a demo, that will be localhost with the	September 2011 (2) August 2011 (2) May 2011 (1) April 2011 (2) March 2011 (1) February 2011 (1) January 2011 (2) November 2010 (1) October 2010 (2)
continumber. The Authorized redirect URI is the URI that Google will redirect to after the user has successfully login and have given permission for our application to access certain information. Client ID for web application Client ID 230246912437- e7nlkmcdgff00f2jfkrk4ctfis4rdre3.apps.googleusercontent.com Email address 230246912437- e7nlkmcdgff00f2jfkrk4ctfis4rdre3@developer.gserviceaccount.com Client secret BZWSeTaQyAmqieKtzpP53g2U	September 2010 (3) August 2010 (3) July 2010 (3) Posts April 2014 M T W T F S S 1 2 3 4 5 6
Redirect URIs Javascript Origins http://localhost:8080/mywebapp/oauth2callback Download JSON Delete The above shows the newly created client id. We will need the Client ID, Client secret and Redirect URIs later when we write our web application. So the next thing we need to decide is what do we want to access from a user's Google account. Click API under APIs a uth. You will now see a list of all the resources available. For our case, we are only interested in basic information, so we're going to enable Google+ API. Enable all the API that the application will be needing. Note that most of these API have a daily limit (for free use). We'll look at how to use the Google+ API that we have enabled in the next section	angularjs COI cordova dataform java vorpal xep-0004 jabberwocky feature glassfish glassfish-3.1 jabberwocky netheans-7.0 java glassfish-v3 ven-0114 container java ympn
One final, you can customize the consent screen by entering the web application's url, image, T&C, etc under the Consent screen menu. Exploring the API As I've mentioned earlier, Google provide lots of resource that we can access. In our case we are interested in a user's Google+ details. All of these resources are access using REST. Google provides a playground for you to experiment with these API. The playground allows you to Find out what are the resources available eg. under Google+ there are different resources like email, profile, login How to invoke them What is the structure of the returned JSON data	jabber html5 invokedynamic jsr-292 ionicframework jabbe jabber xmpp conversation cdi vorpal jabberwocky jabber xmpp java vorpal glassfish xep-030 disco#info disco#item jabber xmpp netbeans glassfish vorpal jabberwocky screencast java java cdi xmpp client javaee javaee6 javaee7
■ What are the OAuth2 scopes (more on scopes later) namespaces - Step 1 Select & authorize APIs - Congle Play Andred Developer API x 1 - Congle Play Came Sences API x 1 - Congle Play	netbeans jabberwocky glassfishv3 xmpp xep-0114 oauth2 pep pubsub xep-163 xep-115 presentation pubsub revealjs rss scribe servlet smack SSØ vorpal vorpal2 xmpp game multiplayer muc vorpal2 xmpp java client vorpal xmpp java conversation vorpal xmpp java tools netbeans webpofile xep-0030 disco#info disco#items java vorpal glassfish netbeans xep-0114 glassfish xmpp jabber xep-0114 java jabbe framework vorpal xep-0114 java smack whack xep-0115 pep xep-163 java smack XMDØ xmpp conversation vorpal jabberwocky stateful xmpp glassfish xep-0114 jmx jabberwocky xmpp jabber openfire smack java xmpp jabberwocky vorpal
with the user. The URL that you see are the scopes. Make a note of these eg. if the example on the left, I have 3 scopes: https://www.googleapis.com/auth/plus.me, https://www.googleapis.com/auth/userinfo.email and https://www.googleapis.com/auth/userinfo.profile. Once you've selected all the API, click on the Authorize APIs button. This is to authorize playground application (for esting) to access these resources from your Google account. If you're using this the first time, then you'll probably see Playground's consent screen requesting permission to access to API from Step 1 above. Click on Accept to proceed. If you don't then you cannot test those APIs.	glassfish java cdi xmpp java jabber smack service discovery google_talk jabber.org xmpp java smack pubsub disco#item disco#info xmpp java xep-0114 presence vorpal xmpp vorpal conversation muc
Step 1 Select & authorization code for tokens - Step 2 Exchange authorization code for tokens Once you get the Authorization code for tokens Once you get the Authorization code for tokens button, you will get a refresh and an access token which is required to access OAuth protected resources. HTTP/1.1 302 Found Location: https://scounts.google.com/c/cauth/suth/redirecs_uri*https%3A27P27Fdc Location: https://scounts.google.com/c/cauth/suth/redirecs_uri*https%3A27P27Fdc Location: https://scounts.google.com/c/cauth/suth/redirecs_uri*https%3A27P27Fdc Location: https://scounts.google.com/c/cauth/scounts.google.com/com/cauth/scounts.google.com/com/cauth/scounts.google.com/com/cauth/scounts.google.com/com/cauth/scounts.google.com/com/cauth/scounts.google.com/com/cauth/scounts.google.com/com/cauth/scounts.google.com/com/cauth/scounts.google.com/cauth/scounts.google.com/com/cauth/scounts.google.com/com/cauth/scounts.google.com/cauth/scounts.google.com/cauth/scounts.google.com/cauth/scounts.google.com/cauth/scounts.google.com/cauth/scoun	
Once you've consented, you'll be taken to Step 2. Nothing much to do here except to click on Exchange authorization code button which will now take you to Step 3. We are now ready to test the Google+ API. Click on List possible operations button. Depending on what you've request in Step1, you will now be presented with a list of URL that you can call. Personal bris - Acco. Using Obust 20 to A	
Silep 1 Select & authorize APIs Step 2 Exchange authorization code Step 3 Configure request to API Silep 3 Configure request to API Construct your HTIP request by specifier bearing the state of the authorize step player is or was involved in that char a Take-Turn TurnBesedNatches. Returns turn board matches the player is or was involved in that char a Take-Turn TurnBesedNatches. Returns turn board matches the player is or was involved in that char a Take-Turn TurnBesedNatches. Returns turn board matches the player is or was involved in that char a Take-Turn TurnBesedNatches. Returns turn board matches the player is or was involved in that char a Take-Turn TurnBesedNatches. Returns turn board matches the player is or was involved in that char a Take-Turn TurnBesedNatches. Returns turn board matches the player is or was involved in that char a Take-Turn TurnBesedNatches. Returns turn board matches the player tarn. Google API v1 Get Archifes Can activity. Saarch Activities Saarch public activities in the specified cellection for a particular user. Get Commercia. Uset all of the commercia prescribing a user's activity such as making a purchase or to test things of the people in the specified cellection. Return TurnBesedNatches R	
### Apps in News in Jevo in Nettocans by Meve Reviews in ROTTEN TOMATOS. Congle	
Expires IPI, 01 Jan 1990 001001000000000000000000000000000	
From the response, you can see the JSON structure of the resource. So by using the playground, you can find out 1. What is the URI for a particular to get a particular piece of information 2. What is the HTTP method to use 3. What is the JSON structure of the result 4. What are the required scopes (from step 1) Integrating with JavaEE We now have everything we need from the OAuth provider, we will now look at how to add this to our web application. Start by configuring your web application to use form based authentication. You should provide a login page with a button to login via Google.	
<pre><form action="googleplus" method="GET"></form></pre>	
<pre>public class GooglePlusServlet extends HttpServlet { private static final String CLIENT_ID = "client id here"; private static final String CLIENT_SECRET = "client secret here"; @Override protected void doGet(HttpServletRequest req, HttpServletResponse res) throws IOException, ServletException { //Configure ServiceBuilder builder= new ServiceBuilder(); OAuthService service = builder.provider(Google2Api.class) .apiKey(CLIENT_ID)</pre>	
<pre>.apiKey(CLIENT_ID) .apiSecret(CLIENT_SECRET) .callback("http://localhost:8080/mywebapp/oauth2callback") .scope("openid profile email " +</pre>	
SooglePlusServlet is the servlet that will handle the OAuth login.Google has documented the authentication exchange here. I'm however going to using the excellent Scribe library. From the ServiceBuider we lookup Google's OAuth2 Provider class. Once we have the OAuthService, we need to set the client id, the client secret and the URI callback. All these 3 pieces of information must match the project we created earlier. Next comes the scope information; scope is use to indicate to Google what resources are we interested in accessing. In other words what is the scope of this request. The scope in this case must always start with the string openid collowed by a space delimited scope namespaces. The 2 standard namespaces are profile and email. If we just have those 2 namespace, then we are saying that we are interested in the user's profile and email. Google supports	
additional scopes for its services. This is where playground comes in. If you recall, when we were exploring the API, we are also shown the scope. If we want the request to access the user's G+ profile and circles, then add their scope namespaces to the scope () method as shown above. Note: Scribe supports may OAuth providers out of the box. However Google is NOT one of them; the reason is found here. This gist adds support for Google. Add the Google2Api class into your project and you're good to go. After constructing OAuthService, save that in the session cause we'll be using it in the next phase of the authentication. Now its time to forward our request to Google. Get the authorization URL from service.getAuthorizationUrl() and perform a redirect to it. So what is going to happen now is	
 If you are not login to your Google account, you will now be asked to do so. If this is the first time you are using the web application, you will be shown the consent screen. You can now choose to accept or reject. Once you've consented to the request, this permission is saved into the user's account permissions. Google will now perform a callback to the configured callback URL. To handle the callback, we're going to need another servlet @WebServlet(urlPatterns={"/oauth2callback", asyncSupported=true)} public class OAuth2CallbackServlet extends HttpServlet { @Override protected void doGet(HttpServletRequest req, HttpServletResponse resp) 	
throws IOException, ServletException { //Check if the user have rejected String error = req.getParameter("error"); if ((null != error) && ("access_denied".equals(error.trim())) { HttpSession sess = req.getSession(); sess.invalidate(); resp.sendRedirect(req.getContextPath()); return; } //OK the user have consented so lets find out about the user AsyncContext ctx = req.startAsync();	
<pre>ctx.start(new GetUserInfo(req, resp, asyncCtx)); } public class GetUserInfo implements Runnable { private HttpServletRequest req; private HttpServletResponse resp; private AsyncContext asyncCtx; public GetUserInfo(HttpServletRequest req, HttpServletResponse resp, AsyncContext asyncCtx) { this.req = req; this.resp = resp; }</pre>	
<pre>this.asyncCtx = asyncCtx; } @Override public void run() { HttpSession sess = req.getSession(); OAuthService serivce = (OAuthService) sess.getAttribute("oauth2Service"); //Get the all important authorization code String code = req.getParameter("code"); //Construct the access token Token token = service.getAccessToken(null, new Verifier(code));</pre>	
<pre>//Save the token for the duration of the session sess.setAttribute("token", token); //Perform a proxy login try { req.login("fred", "fredfred"); } catch (ServletException e) { //Handle error - should not happen } //Now do something with it - get the user's G+ profile OAuthRequest oReq = new OAuthRequest(Verb.GET, "https://www.googleapis.com/oauth2/v2/userinfo");</pre>	
<pre>service.signRequest(token, oReq); Response oResp = oReq.send(); //Read the result JsonReader reader = Json.createReader(new ByteArrayInputStream(</pre>	
The callback is routed to this servlet; we check if the user have rejected the request. If not we proceed to get the user's details. I'm using an async servlet here because we'll be making request out to Google for the user's info and we do not want to hold on to the request processing thread. If the user have consented to the request, then get the code from the query string. This is the most important parameter. Using the code we construct the access token. For every request to Google, we will need the access token to use the token to sign it. Constructing a new token is quite straight forward. You can also refresh an old token by passing in the token as the first parameter in getAccessToken(). Once you have gotten your token, save it in the	
We are now ready to get the user's profile. For your experimentations in the playground (step3), you now know which JRL to use and what HTTP method to use. Construct that using OAuthRequest class. Sign it with the token, before making the call. When the response, returns parse it using a Json parser. Since I'm using EE7, I'll be using the Json API to perform his. Again, from playground, we know the structure of the Json response from Google. You can now save all the elevant information. One last thing before we end. So we have successfully authenticated with Google using OAuth. But we have not login to the application. To do that, I've decided to create a proxy user in the authentication realm of the application server.	
detail. A more tightly integrated approach would be to develop a custom realm (Glassfish in this example). However custom realms may not be portable. One More Time There are may details and configurations so before I and late so through the stans again.	s

One Minute Distraction

Experiments with Java, JavaEE, Web technologies and who knows what else