Wherefore Art Thou, OAuth?
What is OAuth?
What is OAuth?

- Your Valet Key for the Web
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- Your Valet Key for the Web
- Delegated Authentication Protocol
What is OAuth?

- Your Valet Key for the Web
- Delegated Authentication Protocol
- Yet Another Community-driven Protocol
Use Case Zero

magnolia + OpenID
Use Case Zero

? twitter

OpenID
Federated Sign In

Sign In Using Your Magnolia ID

Email Address or Screen Name:

Password:

SIGN IN  Forgot Your password?

Sign In Using Your OpenID

OpenID URL:

http://

OpenID lets you safely sign in to different websites with a single password. Get an OpenID.

SIGN IN WITH OPENID
API Access

![API Access Image]

URL
http://ma.gnolia.com/

Title
Your Home on Ma.gnolia

Description

Tags

Save
API Access
Phishing
Phishing

![Phishing Example](facebook.png)

We won't store your password or contact anyone without your permission.
Phishing

Search Web Email (Hotmail, Yahoo, Gmail, Etc.)
Your Email
Email Password
continue »

Email Security
We don't store your login, your password is submitted securely, and we don't email without your permission.

Are your friends already on Yelp?
Many of your friends may already be here, now you can find out, just log in and we'll display all your contacts, and you can send them a link to the site! And don't worry, we don't store your email password or your friend's addresses. We hate spam, too!
Your Email Service
Your Email Address
Your Email Password
Check Contacts

We won't store your password or contact anyone without your permission.
Phishing

Facebook Login Form

- Invites Your Friends
- Web Email (Hotmail, Gmail, Yahoo, etc.)
- Invite contacts from your email address book.
  - Your Email:
  - Password:
  - Find Your Friends

We won't store your password or contact anyone without your permission.

Search Web Email (Hotmail, Yahoo, Gmail, etc.)

- Your Email: [Input]
- Email Password: [Input]
- [Continue]

Email Security
- We don't store your login, your password is submitted securely, and we don't email without your permission.

Find the people you know on FriendFeed

- Enter your webmail username and password to import your address book, and select contacts to subscribe to or invite to FriendFeed. We won't store your username or password, and we won't send email to any of your friends without your approval.
  - Email Address:
  - Email Password:
  - Import address book

Are your friends already on Yelp?

- Many of your friends may already be on Yelp, now you can find out, just log in and we'll display all your contacts, and you can send which ones are in Yelp! And don't worry, we don't need your email password or your friend's addresses. We trash spam, too.
  - Your Email Service:
  - Your Email Address:
  - Your Email Password:
  - [Check Contacts]
Phishing
Delegated Authentication

- Grant 3rd Party Application access to account
- User does not give 3rd Party Application credentials
- Control 3rd Party Application access to account
What Was Already Out There?

- FlickrAuth
- BBAuth
- AuthSub
- OpenAuth
- Amazon Web Services
The Opportunity

- Manage API access to services with federated sign in.
- Render the password anti-pattern obsolete, teach end users not to accept it, and reduce phishing opportunities.
- Build a community standard useable by even the smallest consumers or service providers as well as the largest.
- Standardize existing delegated authentication patterns already vetted by larger institutions.
- Proliferate protocol libraries so the code to protect and access resources only had to be written once.
Who Helped Develop OAuth?

- Ma.gnolia
- Twitter
- Six Apart
- Flickr
- Pownce
- Jaiku
- Yedda
- Wesabe
- AOL
- Google
- Yahoo
- Stamen
Use Cases

- Primary: Three Legged
- Secondary: Two Legged
Three Legged

- Used to request permission to access a specific user’s protected resources
- Requires Involvement of three parties: User, Service Provider, Consumer
- Examples: Contacts import, photo printing, bookmark synchronizing, location sharing, shopping cart or account updates
Two Legged

- Used to access public resources, yet provider is still able to manage access and usage for a consumer.
- Used to access resource that are private to specific consumers.
- Requires Involvement of only two parties: Service Provider and Consumer
- Examples: searches for publicly accessible data, consumer validated super-user level access
Who’s Using OAuth?

- Google
- Yahoo!
- MySpace
- Netflix
- SmugMug
- Photobucket
- Ma.gnolia
- Fire Eagle
- Brightkite
- GetSatisfaction
- Meetup.com
- 88 Miles
- thmbnl
- Praized
- Yammer
- Agree2
- Ohloh
Three Legged Contact Import

Find the people you know on FriendFeed
Import your address book to find out who's already using FriendFeed. We won't email any of your friends without your approval.

- Import from Gmail
- Import from Yahoo Mail
- Import from Hotmail

©2008 FriendFeed - About - Blog - Tools - API - Help - Terms of Use - Privacy
Three Legged Contact Import
Three Legged Contact Import

Google Accounts

Access Request

The site friendfeed.com is requesting access to your Google Account for the product(s) listed below.


friendfeed.com is only requesting one-time access. If it needs access in the future, you will be prompted again for permission. friendfeed.com will not have access to your password or any other personal information from your Google Account. Learn more

Grant access  Deny access
Three Legged Contact Import
Two Legged Public Search
So, you want to use some Yahoo! APIs...

We need some information from you... To use Yahoo! Web Services, we need some information about you and the application you're building. We collect this information to get a better understanding of how Yahoo! Web Services are being used and to protect the security and privacy of Yahoo! users. All questions are required.

About your application

Application Name: Two Legged OAuth Demo
Kind of Application: Client/Desktop
Description: A lightweight javascript demo of a two legged OAuth scenario using YQL.

Security & Privacy

Yahoo! APIs use the OAuth protocol for secure validation of API usage and end-user authentication, if needed.
Access Scopes:
- This app will only access public APIs, Web Services, or RSS feeds.
- This app requires access to private user data.

Contact information

Just in case something comes up and we need to get a hold of you :-)
Application Owner: Larry Huff
Contact Email:
Terms of Use: I have read and agree to the Yahoo! Developer Network Terms of Use.
Two Legged Public Search

Your API Key has been approved!
This API Key allows you to write an application that interacts with OAuth-enabled and public Yahoo! APIs.
This information will always be available in the MY PROJECTS section.

Two Legged OAUTH Demo Details

API Key (OAuth consumer key)
e6yJmkJZoz2l TKVaSHLwerJMsQIKWv8CuY1YaVbNnRTYTTJN5WbALb2zOREV6TWp:

Your API Key is a required parameter when making calls to Yahoo! APIs & web services

Shared Secret

Your Shared Secret is used to hash a URL and create a unique signature

Access Scopes

Your application will be able to make calls to the following secure Yahoo! APIs & web services using OAUTH

Application ID

Your Application ID is unique to your application

NEXT STEPS...

Mashing up with BBAuth Yahoo! APIs, Flickr or Upcoming?

Learn how to make authenticated API & Web Services calls with OAuth

Some APIs you can use with this key
Maps

Easily embed rich and interactive maps into your web and desktop
Two Legged Public Search

http://paul.donnelly.org/2008/10/31/2-legged-oauth-javascript-function-for-yql/
Two Legged Public Search

Search the News via YQL

Results

- **Obama to use Internet to address nation 2008/11/15** [UPI](http://paul.donnelly.org/2008/10/31/2-legged-oauth-javascript-function-for-yql/)
  Washington, Nov. 15 (UPI) -- U.S. President-elect Barack Obama says he will use Internet videos to update the nation in a modern version of Franklin Roosevelt’s “fireside chats” on radio.

- **Internet Video in Korea Eclipses the DVD 2008/11/14** [New York Times](http://paul.donnelly.org/2008/10/31/2-legged-oauth-javascript-function-for-yql/)
  I read an interesting item on Bloomberg the other day about how Warner Brothers is scaling back its DVD operation in South Korea because of rampant illegal movie downloading. But at the same time it is greatly expanding its authorized Internet movie distribution.

- **Two nabbed in internet-based prostitution sting 2008/11/15** [NBC 2 Fort Myers](http://paul.donnelly.org/2008/10/31/2-legged-oauth-javascript-function-for-yql/)
  Punta Gorda Police Detectives arrested two in to an Internet-based prostitution investigation.

- **Internet IQ Checklist for Journalists 2008/11/15** [Peymoon Institute](http://paul.donnelly.org/2008/10/31/2-legged-oauth-javascript-function-for-yql/)
  Evaluating online information is one of the trickiest and most important parts of using the Internet in your reporting, so I thought I’d follow up Sue’s tips on judging accuracy with a checklist to help guide you.

- **Two arrested in Internet-based prostitution sting 2008/11/15** [WINK TV Southwest Florida](http://paul.donnelly.org/2008/10/31/2-legged-oauth-javascript-function-for-yql/)
  Punta Gorda Police Detectives tell WINK News they arrested two people after a month long internet-based prostitution investigation.

- **Internet war fires up golfers 2008/11/15** [Daily Telegraph](http://paul.donnelly.org/2008/10/31/2-legged-oauth-javascript-function-for-yql/)
  AN internet war has added a bitter edge to this year’s summer of golf, with threats of legal action and recriminations over an ugly feud that has become very public.

- **Internet Explorer Mobile 6 Only Coming to New Models 2008/11/15** [Brighthand](http://paul.donnelly.org/2008/10/31/2-legged-oauth-javascript-function-for-yql/)
  Microsoft has revealed that the next version of Internet Explorer Mobile will only be released on new models. There will be no official way for current users to get this upgrade.

- **Student arrested for internet threat 2008/11/15** [KPLU AM 870 Hilo](http://paul.donnelly.org/2008/10/31/2-legged-oauth-javascript-function-for-yql/)
  Detectives from the Hawaii Police Department’s Criminal Investigations Section have arrested a 25-year-old student at the University of Hawaii at Hilo. Robert Scales of Hilo was arrested for first-degree terrorist threatening after he posted a perceived threatening message on an internet website.

- **National Internet Exchange starts operations in Ahmedabad 2008/11/15** [Calcutta News](http://paul.donnelly.org/2008/10/31/2-legged-oauth-javascript-function-for-yql/)
  The National Internet Exchange of India (Nixe) has set up its new hub in Ahmedabad, a move that would help internet service providers in Gujarat reduce bandwidth expenses.

- **Obama to use Internet to address nation 2008/11/15** [Moldovas.org](http://paul.donnelly.org/2008/10/31/2-legged-oauth-javascript-function-for-yql/)
  U.S. President-elect Barack Obama says he will use Internet videos to update the nation in a modern version of Franklin Roosevelt’s “fireside chats” on radio. Obama Saturday recorded the weekly four-minute Democratic address for radio and then posted a YouTube video on his transition site, Change.gov., the Los Angeles Times reported. Obama plans to post such videos weekly to spread word of his ...