

Social authentication

Social authentication in Drupal
Solutions, best practices



Hello! My name is Andrew

- Andrew Berezovsky (duozersk)
- Full-time Drupal dev for 2+ years
- 4500+ sites using contributed modules (10+ modules)
- Contest winner - <http://startupturbo.com/contest>
- Worked on forbes.ru; geo.ru; computerbild.ru
- andrew@atlas55.com; @duozersk
- D.org - <http://drupal.org/user/378397>
- D.ru - <http://www.drupal.ru/username/duozersk>

Social authentication?

- Any OAuth provider
 - Facebook, Twitter, VK, Google, Yandex, Mail.ru, LinkedIn, Odnoklassniki, ...
- Any OpenID provider
 - Yahoo, Steam, Novell, World of Tanks! 😊
 - Drupal OpenID Provider module -
https://drupal.org/project/openid_provider



Social Login benefits

- Register and login to the site using social login account
- Users
 - Easy registration
 - “One-click” login
 - No need to remember login/e-mail and password
 - Security? (not using the same name/password combo)
- Site owners
 - More registrations
 - Verified information (e-mail, birthday, real name, etc.)

Social authentication in Drupal?

- **BEEN THERE**
 - Needed a solution
- **SEEN IT**
 - Contrib modules were not good enough 😊
- **DONE IT**
 - Wrote 2 rings to rule them all



Two ways to get Social Login

Module per provider

- Several modules each for one single auth provider
 - Code duplication
 - Bugs duplication
 - Inconsistency



“One ring to rule them all”

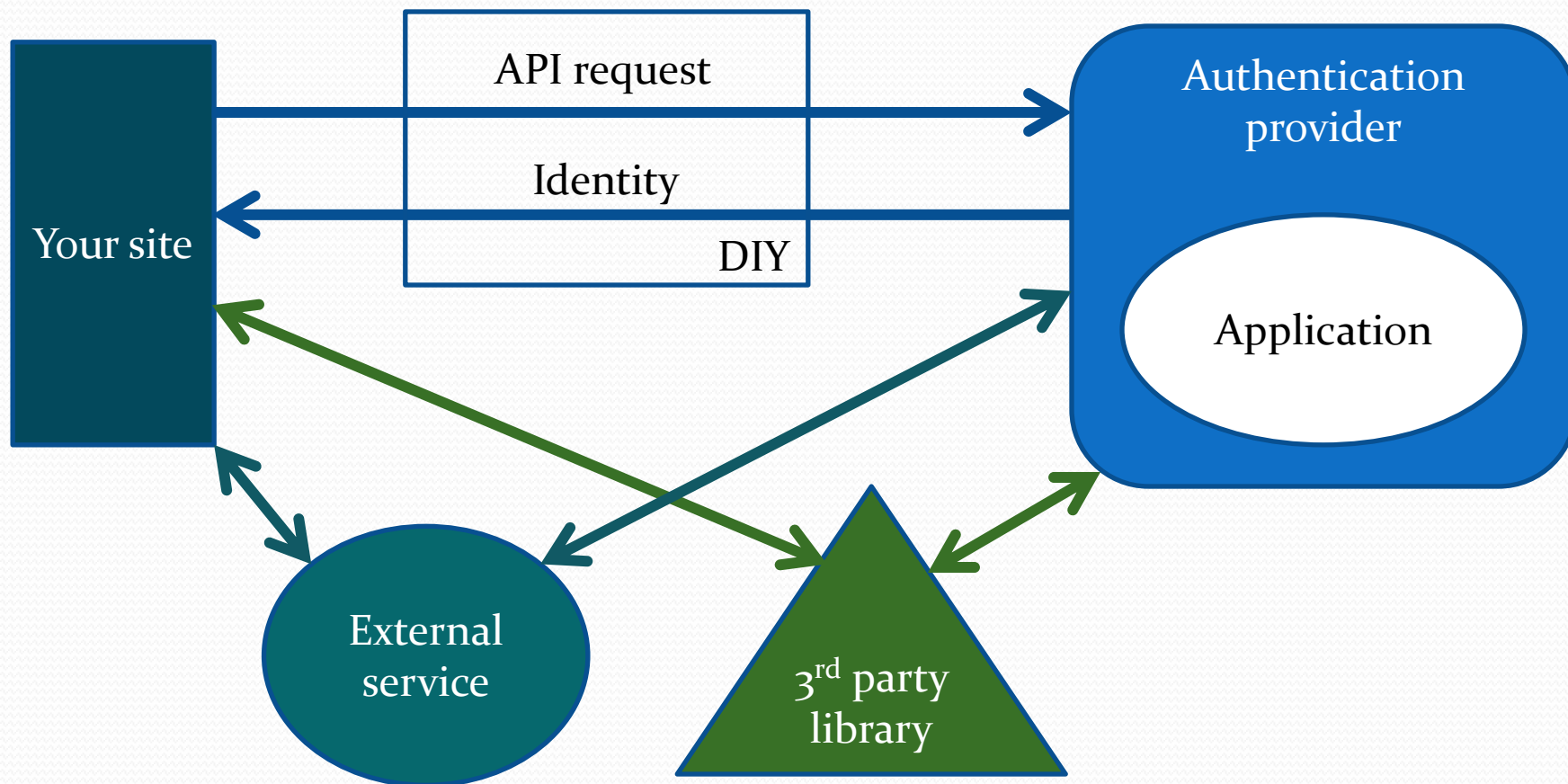
- One module with all the providers
 - Code re-use
 - Consistency
 - Central identity management



Possible rings (to rock'em all!)

- **External service**
 - uLogin, Loginza, LoginRadius, Gigya, etc.
- **3rd-party library (open-source)**
 - hybridauth, opauth
- **DIY (work with social APIs directly)**
 - One central module + plugins for providers
 - Connector, Social Connect, Multilogin (Klera V.); Home-grown solutions (forbes.ru)

How it works?



External service

External
service

Pros

- Single unified API
- No need to register applications
- * Analytics, statistics (paid option?), other service options
- Some services allow you to use your own social applications

Cons

- External JS dependency
- Limited widgets, no theming
- * Limited free plans
- * Integration done by service devs, not Drupal pros
- Provider API change requires service fix (you can't fix it yourself)
- Service branding

3rd party library

Pros

- Single unified API
- No external JS
- Extensive theming
- No usage limits
- Bonus functionality
 - Friend list
 - Post to walls
 - ...

Cons

- Need to register applications
- * Provider API change requires library fix
 - Hint: you can fix it yourself, and help everyone else



DIY solution

Pros

- You own the code



Cons

- You own the code
- Time/money/resources
- Need to implement every provider API
- Support different and changing APIs



Good Social Login module

- Fast and simple registration
- Respect Drupal core settings
- Maximum flexibility, configuration
- Social identities management
- Integration with contib – Token, Rules, Real name
- No conflicts with contrib
- Easy widget theming
- Support for modal / AJAX forms / redirects

HybridAuth (uLogin)

HybridAuth module capabilities, configuration, integration

Authentication providers

Facebook, Twitter, Google, LinkedIn, VKontakte, Odnoklassniki, Mail.ru, Yandex, OpenID, WarGaming

Required information

Email address, First name, Last name, Gender

Widget settings

Widget title: Or log in with...
Widget type: Enabled providers icons
Icon package: Iconpack 32px
Widget weight: 100

Account settings

Who can register accounts?: Visitors
E-mail verification: Require e-mail verification
Save HybridAuth provided picture as user picture
Allow username change when registering
Override Real name
Disable username change
Remove password fields

Drupal forms

Drupal forms: User login form, User login block, User registration form, Comment form
















Other settings

Authentication window type: Use the current window
Redirect after login: node/6
Duplicate emails: Don't allow duplicate email addresses, add new identity to the existing account and login
Debug mode: Disabled

HybridAuth Bonus: Roles

HybridAuth Bonus: Forms

Show row weights

NAME	AVAILABLE	OPERATIONS
<input checked="" type="checkbox"/> <i>Facebook</i> 	Yes	Settings
<input checked="" type="checkbox"/> <i>Twitter</i> 	Yes	Settings
<input checked="" type="checkbox"/> <i>Google</i> 	Yes	Settings
<input checked="" type="checkbox"/> <i>LinkedIn</i> 	Yes	Settings
<input checked="" type="checkbox"/> <i>VKontakte</i> 	Yes	Settings
<input checked="" type="checkbox"/> <i>Odnoklassniki</i> 	Yes	Settings
<input checked="" type="checkbox"/> <i>Mail.ru</i> 	Yes	Settings
<input checked="" type="checkbox"/> <i>Yandex</i> 	Yes	Settings
<input checked="" type="checkbox"/> <i>OpenID</i> 	Yes	Settings
<input type="checkbox"/> <i>Windows Live</i> 	Yes	Settings
<input type="checkbox"/> <i>Yahoo</i> 	Yes	Settings
<input type="checkbox"/> <i>Foursquare</i> 	Yes	Settings
<input type="checkbox"/> <i>Disqus</i> 	No	Settings
<input type="checkbox"/> <i>Tumblr</i> 	No	Settings
<input type="checkbox"/> <i>Instagram</i> 	No	Settings

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Debug mode: Disabled

Required information

Email address

First name

Last name

Gender

If authentication provider doesn't return it, visitor

Authentication providers

Facebook, Twitter, Google, LinkedIn, VKontakte, Odnoklassniki, Mail.ru, Yandex, OpenID, WarGaming

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Widget title

Or log in with...

Widget type

- Enabled providers icons
- Single icon leading to a list of enabled providers
- Link leading to a list of enabled providers

Icon package

Iconpack 32px ▼

Widget weight

100 ▼

Determines the order of the elements on the form – heavier elements get p

Authentication providers

Facebook, Twitter, Google, LinkedIn, VKontakte, Odnoklassniki, Mail.ru, Yandex, OpenID, WarGaming

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HybridAuth Bonus: Roles

HybridAuth Bonus: Forms

Who can register accounts?

- Follow core: Visitors
- Visitors
- Visitors, but administrator approval is required
- Nobody, only login for existing accounts is possible

Select who can register accounts through HybridAuth. The core settings are available at [Account settings](#).

E-mail verification

- Follow core: Require e-mail verification
- Require e-mail verification
- Don't require e-mail verification

Select how to handle not verified e-mail addresses (authentication provider gives address). The core settings are available at [Account settings](#).

- Save HybridAuth provided picture as user picture

Save pictures provided by HybridAuth as user pictures. Check the "Enable user pictures" option at [Account settings](#) to make this option available.

Authentication providers

Facebook, Twitter, Google, LinkedIn, VKontakte, Odnoklassniki, Mail.ru, Yandex, OpenID, WarGaming

Required information

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HybridAuth Bonus: Forms

Username pattern *

`hybridauth_[user:hybridauth:provider]_[user:hybridauth:identifier]`

Create username for new users using this pattern; counter will be added in case You should use only HybridAuth tokens here as the user is not created yet. Install list of all available tokens.

Allow username change when registering

Allow users to change their username when registering through HybridAuth.

Ask user for a password when registering

Ask users to set password for account when registering through HybridAuth.

Display name pattern

`[user:hybridauth:firstName] [user:hybridauth:lastName]`

Leave empty to not alter display name. You can use any user tokens here. Install list of all available tokens.

► TOKEN

Authentication providers

Facebook, Twitter, Google, LinkedIn, VKontakte, Odnoklassniki, Mail.ru, Yandex, OpenID, WarGaming

Required information

Email address, First name, Last name, Gender

Widget settings

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Drupal forms

Drupal forms: User login form, User login block, User registration form, Comment form

Other settings

Authentication window type: Use the current window
Redirect after login: node/6
Duplicate emails: Don't allow duplicate email addresses, add new identity to the existing account and login
Debug mode: Disabled

HybridAuth Bonus: Roles

HybridAuth Bonus: Forms

Override Real name

Override Real name settings using the above options.
This option is available only if Real name module is enabled.

Disable username change

Remove username field from user account creation form. If unchecked then users should also have "Change the username" link.

Remove password fields

Remove password fields from user account creation form.

Authentication providers

Facebook, Twitter, Google, LinkedIn, VKontakte, Odnoklassniki, Mail.ru, Yandex, OpenID, WarGaming

Required information

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Override Real name

Disable username change

Remove password fields

Drupal forms

Drupal forms: User login form, User login block, User registration form, Comment form

Other settings

Authentication window type: Use the current window

Redirect after login: node/6

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Debug mode: Disabled

HybridAuth Bonus: Roles

HybridAuth Bonus: Forms

Drupal forms

User login form

User login block

User registration form

Comment form

Add HybridAuth widget to these forms.

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Other settings

Authentication window type: Use the current window
Redirect after login: node/6
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Debug mode: Disabled

HybridAuth Bonus: Roles

HybridAuth Bonus: Forms

Authentication window type

- Use the current window
- Use a new popup window

Redirect after login

node/6

Drupal path to redirect to, like "node/1". Leave empty to return for widget in modal dialogs loaded by AJAX).

You can use any user or global tokens here. Install Token module

▶ **TOKEN**

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Redirect after login: node/6
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Debug mode: Disabled

HybridAuth Bonus: Roles

HybridAuth Bonus: Forms

Duplicate emails

- Allow duplicate email addresses, create new user account and login
- Don't allow duplicate email addresses, block registration and advise to
- Don't allow duplicate email addresses, add new identity to the existing

Select how to handle duplicate email addresses. This situation occurs when you authenticate using different authentication providers, but with the same email address.

Debug mode

When in debug mode, extra error information will be logged/displayed in the development environment.

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HybridAuth Bonus: Roles

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Suggest role choice when registering

Allow users to choose their roles when registering

Roles to choose from

administrator

Manager

Editor

Select roles to suggest to new users when registering

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Debug mode: Disabled

HybridAuth Bonus: Roles

HybridAuth Bonus: Forms

Customize HybridAuth widget per form

▶ **USER LOGIN FORM**

▶ **USER LOGIN BLOCK**

▶ **USER REGISTRATION FORM**

▶ **COMMENT FORM**

Username *

Enter your Drupal 7 username.

Password *

Enter the password that accompanies your username.

Or log in with...



[Регистрация](#) | [Войти](#)



Social  Cooking

Электронная почта

Пароль

[Войти](#)

[Забыли пароль?](#)

Вход через социальные сети



Вход на сайт:

[Войти](#)

[Регистрация](#)

[Забыли пароль?](#)



Required information

Please fill in additional information to complete your registration.

Username *

Choose your username. Spaces are allowed; punctuation is not allowed except for periods, hyphens, apostrophes, and underscores.

The name *taken_username* is already taken.

E-mail address *

A valid e-mail address. All e-mails from the system will be sent to this address. The e-mail address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by e-mail.

Last name *

Gender *

- Male
- Female

Conditions

ELEMENTS	OPERATIONS
<p>✚ User created by HybridAuth Parameter: <i>User</i>: [account]</p>	<p>edit delete</p>
<p>✚ Add condition ✚ Add or ✚ Add and</p>	

Actions

ELEMENTS
<p>✚ Create date from day/month/year Parameter: <i>Day</i>: [account:hybridauth:birthDay], <i>Month</i>: [account:hybridauth:birthMonth], <i>Year</i>: [account:hybridauth:birthYear] Provides variables: Date (date)</p>
<p>✚ Set a data value Parameter: <i>Data</i>: [account:field-birthday], <i>Value</i>: [date]</p>
<p>✚ Set destination Parameter: <i>Day</i>: node/7</p>

Identities management

Authentication provider	Identity	Delete
Twitter	http://twitter.com/ <input type="text"/>	Delete
LinkedIn	http://www.linkedin.com/pub/ <input type="text"/>	Delete
Yandex	<input type="text"/>	Delete
Google	https://profiles.google.com/ <input type="text"/>	Delete
Facebook	http://www.facebook.com/ <input type="text"/>	Delete
WarGaming	https://ru.wargaming.net/id/ <input type="text"/>	Delete
Mail.ru	http://my.mail.ru/mail/ <input type="text"/>	Delete
Vkontakte	http://vk.com/ <input type="text"/>	Delete

Add more identities



Developer Goodies

- Widget – Form API element
 - Everything is configured through #properties
- Tokens
- Rules integration
 - Events: identity added/deleted; user created / logged in
 - Conditions: user registered through HybridAuth
 - Actions
 - Save remote file to managed file (to use with file fields)
 - Create date from year/month/day (to use with date fields)
 - Set destination (no redirect / drupal_goto())

Developer Goodies (cont.)

- Hooks

- `hook_hybridauth_username_alter()`
- `hook_hybridauth_profile_alter()`
- `hook_hybridauth_userinfo_alter()`
- `hook_hybridauth_registration_form()`
- `hook_hybridauth_registration_block()`
- `hook_hybridauth_identity_added()`
- `hook_hybridauth_identity_deleted()`
- `hook_hybridauth_user_insert()`
- `hook_hybridauth_user_login()`

Developer Goodies (cont.)

```
<?php
if ($hybridauth = hybridauth_get_instance()) {
    try {
        if ($hybridauth->isConnectedWith('Twitter')) {
            $adapter = $hybridauth->getAdapter('Twitter');
            $adapter->setUserStatus('Testing out posting from HybridAuth #spam #test /cc
@hybridauth');
        }
    }
    catch (Exception $e) {
        watchdog_exception('hybridauth', $e);
    }
}
?>
```

Thank you!

Andrew Berezovsky

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