



Origo

Distributed Software Development

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- Was ist Origo und wozu dient es?
- Architektur
- Origo & Drupal
- Multi-site
- Drei Probleme:
 - Authentifizierung
 - Setup
 - Updates

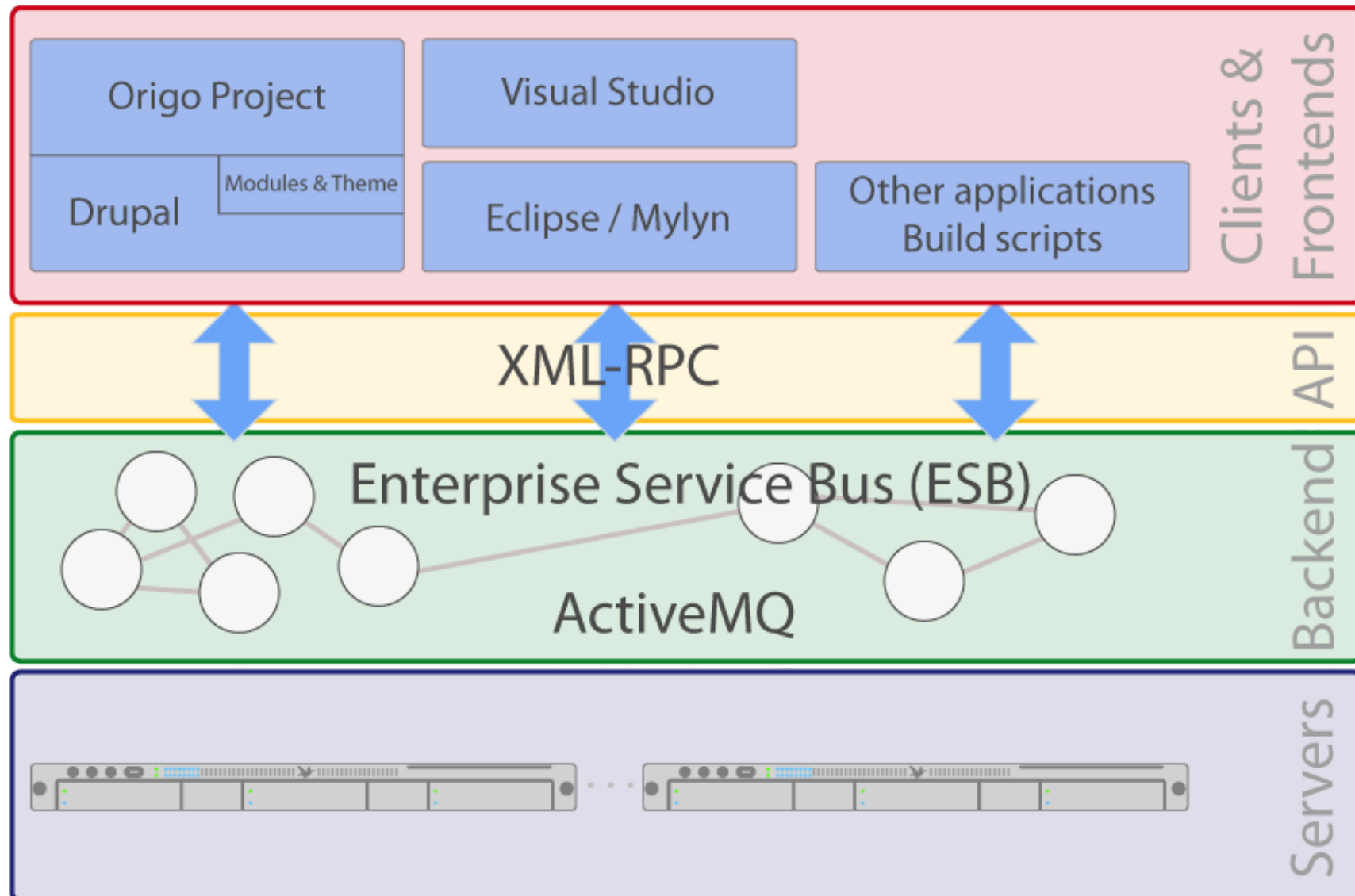
- Software Development – Mehr als nur Programmieren
- Koordination aller Teilnehmer
 - Source Control Management
 - Task - Koordination
 - Dokumentation
 - Release Cycle Control
 - Kalender
- Coordination / Management
 - Revision control, project management

Überblick: Features

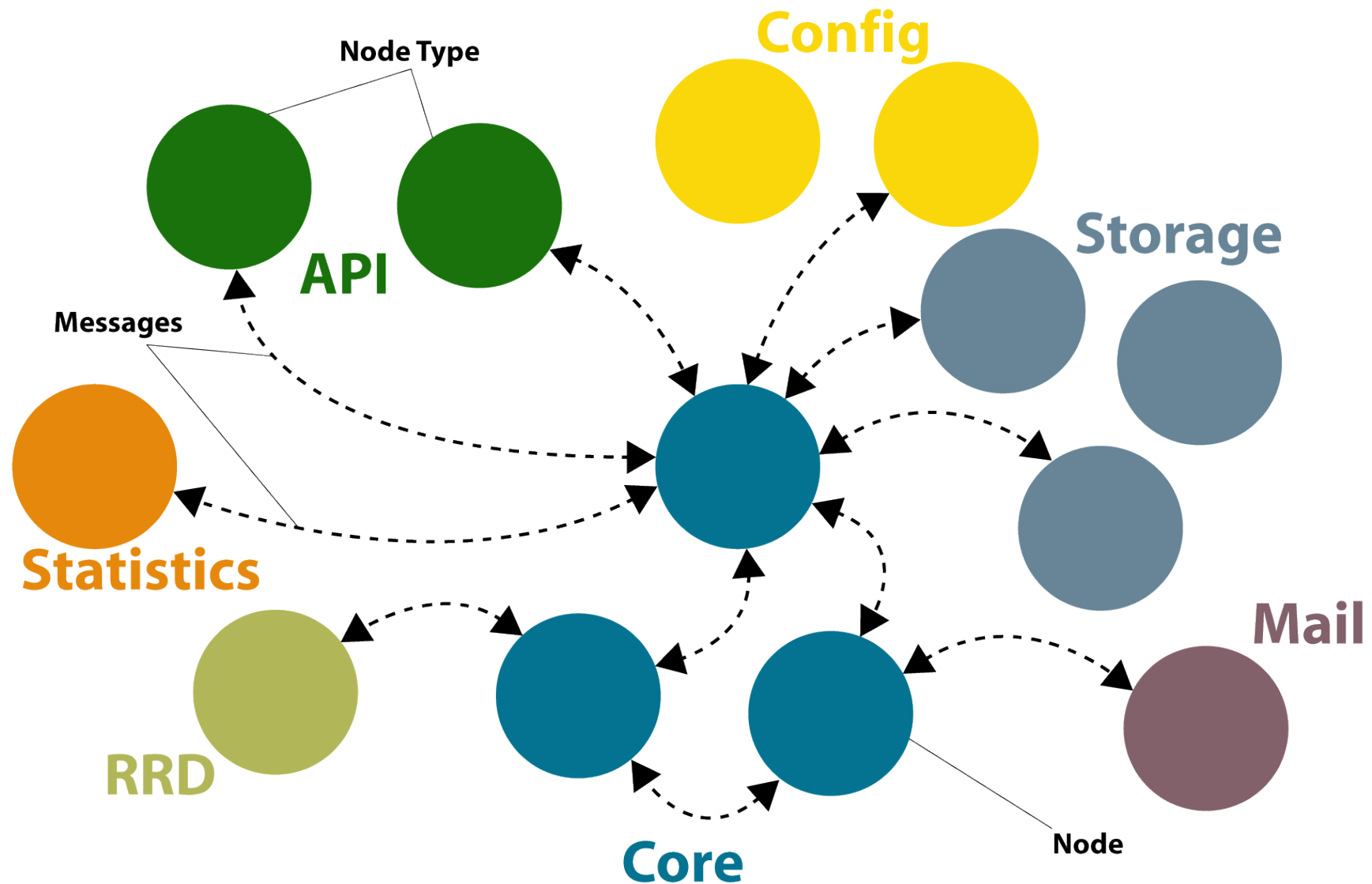
- Wiki
- Subversion
- Issue Tracker
- Work-Items / Dashboard
- Email Notifications
- Member Management
- Öffentliche API
- Blog
- WebSVN
- Releases
- Chat (Jabber)
- Statistics
- FTP
- Forum
- Networking

DEMO

Architektur



Architektur: Back-End



- Framework
 - FAPI
 - Theming
 - Hooks
 - I18n (eines Tages...)
 - Rollout Mechanismus
 - Multi-sites
- Erweiterbar!
 - Custom Modules
 - 3rd Party Modules
- Security Updates

- Gemeinsamer Drupal Core
- Pro Site:
 - Beliebige Module
 - Beliebige Themes
- Möglich:
 - Gemeinsame Module
 - Gemeinsame Themes

```
sites/  
├── all  
│   ├── modules  
│   │   ├── ...  
│   │   ├── origo_auth  
│   │   ├── origo_eth  
│   │   ├── origo_global  
│   │   ├── origo_home  
│   │   ├── origo_statistics  
│   │   ├── origo_xmlrpc_table  
│   │   └── ...  
│   ├── settings.inc  
│   ├── settings_server.inc  
│   └── themes  
│       └── bluefish  
├── default  
│   └── default.settings.php  
├── ...  
├── myproject  
│   ├── files  
│   └── settings.php  
├── myproject.origo.ethz.ch->myproject  
├── ...  
└── template
```

```
sites/  
├── all  
│   ├── modules  
│   │   └── ...  
├── ...  
├── myproject  
│   ├── files  
│   └── settings.php  
├── origo.ch.projects.myproject->myproject  
└── ...
```

Webserver Configuration Made Easy:

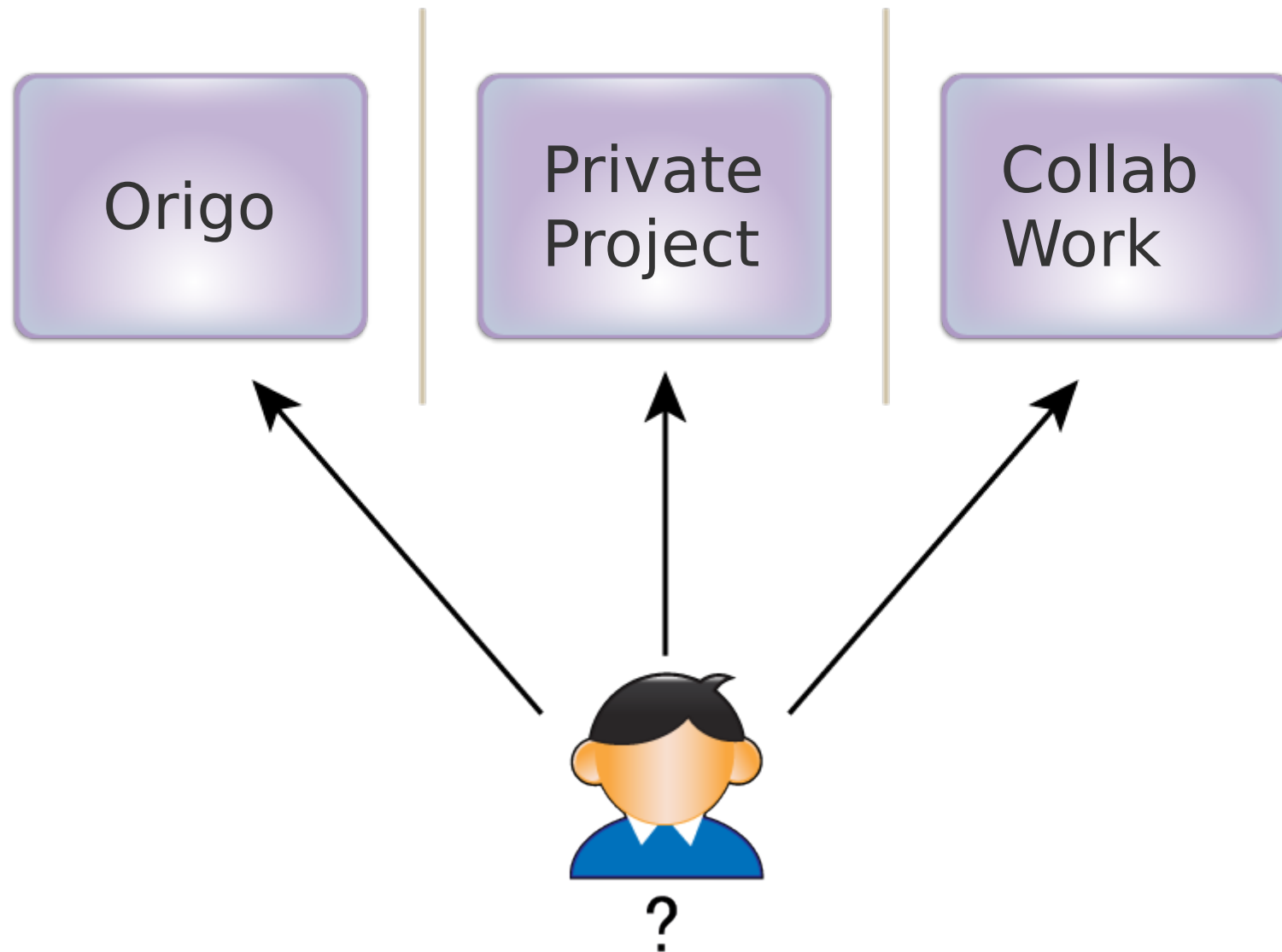
```
drupal/  
├── ...  
├── projects  
│   ├── ...  
│   └── myproject -> /var/www/drupal/  
└── ...
```

- 4900 Projekte
[a-z]*.origo.ethz.ch
- Strikt Getrennte Inhalte
 - Issues
 - Wiki-pages
 - Blog-posts
 - ...

- Grosse Gemeinsamkeit: der User
 - Credentials
 - Work-Items
 - Freundschaften
 - Profil
- Communities
- Zukunft:
 - Kalender?
 - Tasks?

Problem 1: Authentifizierung

Gleiche Credentials in **allen** Multi-sites?

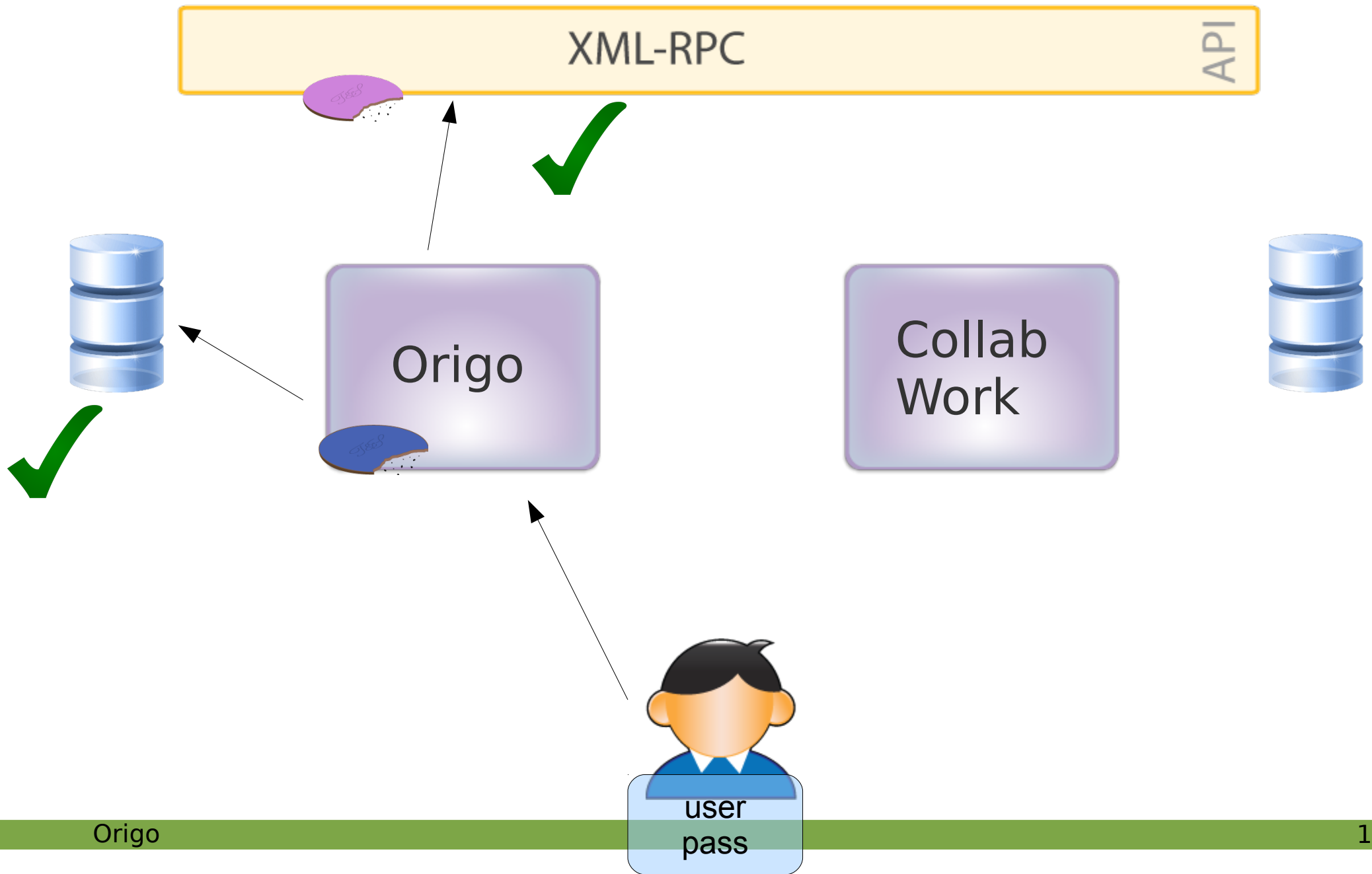


- User kann mehreren Projekten zugeordnet sein
- User kann in jedem Projekt unterschiedliche Rollen innehalten
 - Developer (Member)
 - Owner
 - Anonymous
 - Authenticated
 - Admin

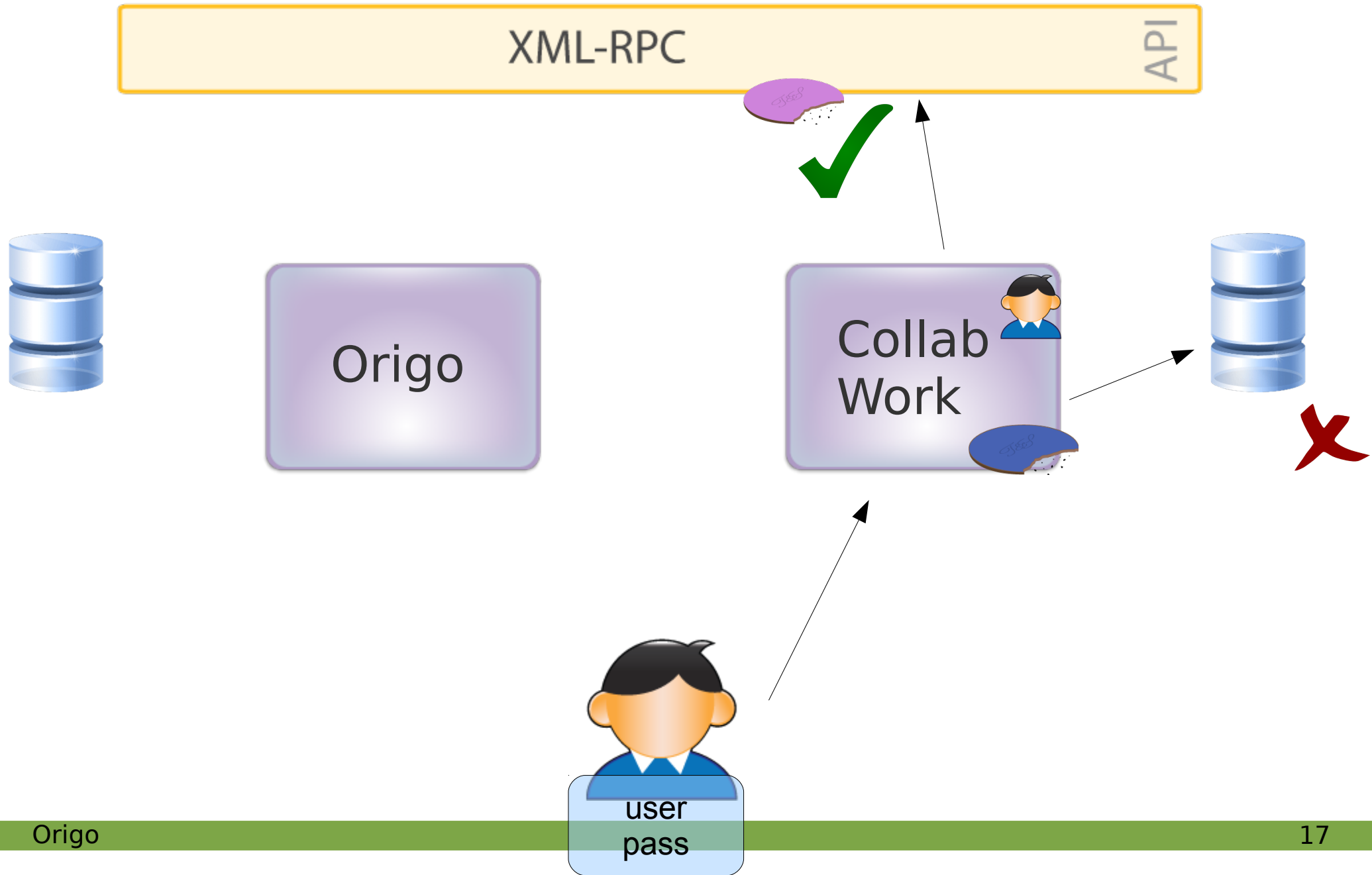
Auth.: Dual Session Cookies

- Authentifizierung sowohl in Front- als auch Back-end
- Submit handlers für Drupals login/logout
- Verschlüsseln & speichern der Credentials der in Session
- Wenn Drupal Login fehlschlägt:
Authentifizierung im Back-end!
 - (Re-) Kreieren des user Objekts in Drupal
 - Aktivieren der Drupal Session

Auth.: Two Session Cookies



Auth.: Two Session Cookies



Problem 2: Setup

- Pro neuem Projekt:
 - Neue Drupal Site einrichten & Konfigurieren
 - Subversion Repository erstellen
 - Jabber User einrichten
 - Etc.
- Unix Tools: Via Shell-script
- Drupal's **install.php** via Commandline?

- «Drupal CLI utils»
- Screen-Scraper für **install.php**

```
function origo_install($vars) {
    DrupalCli::Setup($_SERVER);

    $installer = new DrupalInstaller();
    $installer->profile = $vars['profile'];
    $installer->db = $vars['db'];
    $installer->db_type = $vars['db_type'];
    $installer->db_host = $vars['db_host'];
    $installer->db_user = $vars['db_user'];
    $installer->db_password = $vars['db_password'];
    $installer->site_name = $vars['site_name'];
    $installer->username = $vars['username'];
    $installer->password = $vars['password'];
    $installer->email = $vars['email'];

    $installer->install($vars['url']);
}
```

- `./origo-create-svn.sh mynewproject`
- `./origo-create-project.php 123 mynewproject`
- `./origo-jabber-create-group.sh mynewproject`
- Statistics Dateien generieren
- svn & ftp permissions updaten

Problem 3: Maintenance

- Code Updates:
 - Dank Multi-site nur ein Mal für alle Projekte
- Drupal/Modul Database Update?
 - «call `update.php`»
 - 4900+ mal..!?
- Automatisierte Updates nötig!

Maintenance: Drush

- Drush
 - «drush is a command line shell and Unix scripting interface for Drupal, a veritable Swiss Army knife designed to make life easier...»
- Download & Aktivierung von Modulen
- Database Updates (`update.php`)
- SQL Commands
- PHP code ausführen (Variablen setzen)
- Clear Cache, Cron

... und vieles Mehr

status	Provides a birds-eye view of the current Drupal installation, if any.
script	Run php script(s).
watchdog show	Shows recent watchdog log messages. Optionally filter for a specific type.
watchdog delete	Delete all messages or only those of a specified type.
search status	Show how many items remain to be indexed out of the total.
search index	Index the remaining search items without wiping the index.
search reindex	Force the search index to be rebuilt.
sync	Rsync the Drupal tree to/from another server using ssh.
eval	Evaluate arbitrary php code after bootstrapping Drupal.
installcore	Install Drupal core via the specified install profile.
enable	Enable one or more modules.
disable	Disable one or more modules.
uninstall	Uninstall one or more modules.
statusmodules	Show module enabled/disabled status
refresh	Refresh update status information
updatecode	Update your project code
Info	Release information for a project
test mail	Run all tests and mail the results to your team.
test clean	Delete leftover tables and files from prior test runs.
variable get	Get a list of some or all site variables and values.
variable set	Set a variable.
variable delete	Delete a variable.

Maintenance: Drush

Ein typisches Update:

1. Adapt `origo.profile`
2. Adapt `module.install`
3. Adapt `hook_update_N()`
4. Run Drush:

```
find $DRUPAL_ROOT/sites/ -maxdepth 1 -type d \  
  -printf '%f\n' | while read FILENAME;  
do  
  # update database  
  drush -y -l $FILENAME updatedb  
done
```

?s | | // 's

- Origo: <http://origo.ethz.ch>
- Oriact: <http://oriact.com>
- Drupal Multi-sites: <http://drupal.org/getting-started/6/install/multi-site>
- Drupal CLI-Utils (installer):
<http://steamer.acquia.com/blog/drupal-cli-utils>
- Drush: <http://drupal.org/project/drush>