

# A generic PHP Application installer

PHPDay Italy 2011

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May 12, 2011



## About me

- ▶ Degree in computer science in 2010
- ▶ More than 10 years of professional PHP
- ▶ Open source enthusiast
- ▶ Contributing to various FLOSS projects
- ▶ Founder of **Qafoo GmbH**, which provides **Services all around high quality PHP**

# Outline

The problem

History

Requirements

Design

Summary



# The problem

- ▶ Users installing software
  - ▶ Shared hosts
  - ▶ Dedicated servers
  - ▶ (Administrators)

Generic installer package  
Generic server  
Generic installation  
Generic software  
Generic like this exists



## The problem

- ▶ Users installing software
  - ▶ Shared hosts
  - ▶ Dedicated servers
  - ▶ (Administrators)
- ▶ The use case
  - ▶ Download installer package
  - ▶ Copy it to server
  - ▶ Configure installation
  - ▶ Install software

... because this exists

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  - ▶ Download installer package
  - ▶ Copy it to server
  - ▶ Configure installation
  - ▶ Install software
- ▶ Nothing like this exists



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# History

- ▶ Christian Weiske blogged about the problem and his requirements
  - ▶ <http://cweiske.de/tagebuch/GenericPHPApplicationinstallers.htm>

- ▶ I wrote a proper installer for Arbit
- ▶ I wrote a README document for additional requirements and dependencies
- ▶ I posted the code to [http://arbitcracker.arbitracker.org/arbit/development\\_review/Installer](http://arbitcracker.arbitracker.org/arbit/development_review/Installer)
- ▶ I presented the problems at various (un-)conferences
- ▶ I received feedback from phpBB, Typo3 and other software developers
- ▶ I published my studies



# History

- ▶ Christian Weiske blogged about the problem and his requirements
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- ▶ We need a proper installer for Arbit

→ I wrote a document for additional requirements and

→ I contacted the developer of [arbitracker.arbitracker.org/arbit/development\\_review/Installer](http://arbitracker.arbitracker.org/arbit/development_review/Installer)

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→ ...

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- ▶ We set up a wiki document for additional requirements and initial design
  - ▶ [http://tracker.arbitracker.org/arbit/development\\_wiki/view/Installer](http://tracker.arbitracker.org/arbit/development_wiki/view/Installer)

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- ▶ Merged feedback from phpBB, Typo3 and other software communities

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# General

- ▶ Handle “any” setup gracefully
  - ▶ PHP versions
  - ▶ Available extensions
  - ▶ PHP configurations

▶ Upgrade existing installations  
▶ Support task-graphs

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task-graphs

# General

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  - ▶ PHP versions
  - ▶ Available extensions
  - ▶ PHP configurations
- ▶ Ability to upgrade existing installations
- ▶ Handling of task-graphs





# Security

- ▶ Limit installation to one user
  - ▶ Require file with password created next to the installer
  - ▶ Limit installer to a single IP

user installation

# Security

- ▶ Limit installation to one user
  - ▶ Require file with password created next to the installer
  - ▶ Limit installer to a single IP
- ▶ Drop rights after installation



# Steps

## 1. Check system requirements

- ▶ Extensions
- ▶ Libraries
- ▶ PHP configuration settings
- ▶ Web Server setup

▶ Install application

▶ Install modules

▶ Install application modules

▶ Install application

▶ Copy data

▶ Configure application

▶ Set permissions

# Steps

1. Check system requirements
  - ▶ Extensions
  - ▶ Libraries
  - ▶ PHP configuration settings
  - ▶ Web Server setup
2. Configure application
  - ▶ Accept license
  - ▶ Database
  - ▶ Application modules

Install application  
Install data  
Configure application  
Set permissions

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3. Install application
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# Design

- ▶ Installer consists of any number of tasks, each has
  - ▶ Requirements
  - ▶ Configuration options
  - ▶ Actions
  - ▶ (Verifications)

▶ The start task

▶ Each task may trigger any number of “dependant” tasks  
optionally based on configuration settings

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  - ▶ Each task may trigger any number of “dependant” tasks

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  - ▶ Requirements
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  - ▶ Actions
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- ▶ Installer runs the start task
  - ▶ Each task may trigger any number of “dependant” tasks
  - ▶ ... optionally based on configuration settings

# Demo



Arbit Installer



# Disecting the installer

```
1  #!/usr/bin/php
2  <?php
3
4  require 'src/environment.php';
5
6  $installer = new aiInstaller(
7      'Arbit',
8      '0.3-alpha',
9      'Arbit_aims_to_provide_a_decent_modern_extensible_multi_project_tracking_
10     tool_Features_start_with_issue_tracking_and_wiki_and_do_not_stop_
        before_code_analysis_and_translation_management.'
    );
```

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```

## Adding a first task

```
12 // Configure legal task
13 $installer['legal'] = $legal = new aiTask(
14     'License',
15     'Please_read_and_accept_the_license.'
16 );
17
18 $legal->configurations['license'] = new aiConfigurationLicense(
19     'Accept_License',
20     'Please_read_and_accept_the_GPL_3_license ,_under_which_Arbit_is_licensed.',
21     file_get_contents( __DIR__ . '/LICENSE' )
22 );
23 $legal->configurations['deps'] = new aiConfigurationDependency(
24     'Dependencies',
25     'Task_dependencies.',
26     array( 'main' )
27 );
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```
29 // Configure main task
30 $installer['main'] = $main = new aiTask(
31     'Main_configuration',
32     'Main_configuration_for_arbit.'
33 );
34
35 $main->requirements = new aiRequirementsAnd(
36     new aiRequirementsAnd(
37         new aiRequirementPhpVersion( '5.3' ),
38         new aiRequirementPhpIniSetting( 'short_open_tags', false ),
39         new aiRequirementPhpIniSetting( 'memory_limit', '128M' ),
40         new aiRequirementPhpIniSetting( 'mbstring.func_overload', false ),
41         new aiRequirementPhpIniDateTimezone()
42     ),
43     new aiRequirementsAnd(
44         new aiRequirementPhpExtension( 'does_not_exist' ),
45         new aiRequirementPhpExtension( 'pcre' ),
46         new aiRequirementPhpExtension( 'spl' ),
47         new aiRequirementPhpExtension( 'date' ),
48         new aiRequirementPhpExtension( 'dom' ),
49         new aiRequirementPhpExtension( 'iconv' ),
50         new aiRequirementPhpExtension( 'json' ),
51         new aiRequirementPhpExtension( 'libxml' ),
52         new aiRequirementPhpExtension( 'session' )
53     ),
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## Main task configurations

```
57 $main->configurations['database'] = new aiConfigurationDatabase(  
58     'Database_connection',  
59     'Database_which_stores_the_arbit_data.',  
60     array(  
61         'couchdb' => 'Apache_CouchDB_document_database',  
62         'mysql'   => 'MySQL_database_using_the_mysql_driver',  
63     )  
64 );  
65  
66 $main->configurations['email'] = new aiConfigurationString(  
67     'Admin_E-Mail',  
68     'Mail_address_of_administrator_for_error_reporting.',  
69     'errors@example.org'  
70 );  
71 $main->configurations['sender'] = new aiConfigurationString(  
72     'Sender_E-Mail',  
73     'Mail_address_used_as_the_sender_address_for_all_mails_sent_out.',  
74     'Arbit<no-reply@example.org>'  
75 );  
76 $main->configurations['project'] = new aiConfigurationOptionalDependency(  
77     'Configure_Project',  
78     'Configure_a_project_directly_inside_the_installer. Otherwise_this_can_be_  
79     done_later_by_modifying_the_configuration_files.',  
80     'project'  
);
```

## Main task actions

```
82 $main->actions [] = new aiActionPhync( array(  
83     array(  
84         new phyncMatcherTargetExists(),  
85         array(  
86             new phyncChmodAction( 0770 ),  
87         ),  
88     ),  
89     array(  
90         new phyncMatcherOr( array(  
91             new phyncMatcherNot(  
92                 new phyncMatcherTargetExists()  
93             ),  
94             new phyncMatcherSourceNewer(),  
95         ) ),  
96         array(  
97             new phyncCopyAction(),  
98             new phyncChmodAction( 0770 ),  
99         ),  
100     ),  
101 ) );
```

## Interlude: Phync

- ▶ Implements user-land PHP stream wrappers for different protocols
  - ▶ FTP (using the PHP extension or sockets)
  - ▶ Virtual File System (Memory)
  - ▶ (SCP)

File system synchronization

• A set of rules, consisting of matchers and actions

• **Matcher:** Decides if the rule should be applied

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    - ▶ Matcher: Decides if the rule should be applied
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## Main task actions

```
1 <?php
2
3 stream_wrapper_register( 'phyncftp', 'phyncFtpHandler' );
4 stream_wrapper_register( 'vfs', 'phyncVirtualFileSystemHandler' );
5
6 $syncer = new phyncSyncer();
7
8 $syncer->addRule(
9     new phyncMatcherNot(
10         new phyncMatcherTargetExists()
11     ),
12     array(
13         new phyncCopyAction(),
14         new phyncChmodAction( 0777 ),
15     )
16 );
17 $syncer->addRule(
18     new phyncMatcherFile(),
19     array(
20         new phyncChmodAction( 0666 ),
21     )
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23
24 $syncer->synchronize(
25     'phyncftp://user@pass:localhost/subdir',
26     'vfs://test/'
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99         ),
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101 );
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## Main task actions

```
102 $main->actions [] = new aiActionIniConfig(  
103     'config/main.ini',  
104     array(  
105         'email'           => 'main.email',  
106         'type'            => 'main.database.extension',  
107         'connection'     => 'main.database.url',  
108         'options[from]' => 'main.sender',  
109     )  
110 );  
111 $main->actions [] = new aiActionMkdir( 'var/log', 0770 );  
112 $main->actions [] = new aiActionMkdir( 'tmp', 0770 );
```

## Main task actions

```
114 $main->postActions [] = new aiActionPhync( array(
115     array(
116         new phyncMatcherAnd( array(
117             new phyncMatcherDir(),
118             new phyncMatcherNot(
119                 new phyncMatcherPcre( '/(?:var|tmp|log)/' )
120             ) ),
121         ) ),
122     array(
123         new phyncChmodAction( 0550 ),
124     ),
125 ),
126 array(
127     new phyncMatcherFile(),
128     array(
129         new phyncChmodAction( 0440 ),
130     ),
131 ),
132 ) );
```

# Packaging

```
212 $packager = new aiPackagerPhar();
213 $packager->package(
214     $installer,
215     new RecursiveRegexIterator(
216         new RecursiveRegexIterator(
217             new RecursiveDirectoryIterator(
218                 new RecursiveDirectoryIterator(
219                     '/home/kore/dev/arbit/trunk/src',
220                     FilesystemIterator::KEY_AS_PATHNAME | FilesystemIterator::
221                         CURRENT_AS_FILEINFO
222                 ),
223                 aiPackager::createRejectRegExp( '/.svn/' ),
224                 RegexIterator::MATCH,
225                 RegexIterator::USE_KEY
226             ),
227             aiPackager::createRejectRegExp( '/var/' ),
228             RegexIterator::MATCH,
229             RegexIterator::USE_KEY
230         ),
231         aiPackager::createRejectRegExp( '/tmp/' ),
232         RegexIterator::MATCH,
233         RegexIterator::USE_KEY
234     ),
235     'arbit-0.3-alpha-installer.phar'
236 );
```

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- ▶ Extensible task based fully configurable installer
  - ▶ Build your own installer with it
  - ▶ Current state: `svn://arbitracker.org/arbit/projects/installer/trunk`
    - ▶ Will probably move to github soonish:  
`svn://github.org/arbitracker`

Features

• Command line user interface

• Easy to use it as an "updater"

• Support non-PHAR packager

• Store and replay configuration

• Installer configuration through XML

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- ▶ TODO
  - ▶ Security features

add a command line user interface  
make it easier to use it as an "updater"  
add a non-PHAR packager  
add save and replay configuration  
add installer configuration through XML

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### ▶ TODO

- ▶ Security features
- ▶ Command line user interface
- ▶ Make it easier to use it as an "updater"
- ▶ Support non-PHAR packager
- ▶ Store and replay configuration
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## Stay in touch

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- ▶ **Rent a PHP quality expert:**  
<http://qafoo.com>