

**CubiBuild**

describe build Cubi applications

Phase-Implementation

Updated Oct 24, 2011 by [rockys...@gmail.com](#)

Build Cubi Applications

Cubi's build tool is to make it easy to build Cubi-based application. Cubi builder is actually a warp script on top of Phing (<http://phing.info/trac/>) which is an Ant-like project build system.

The following files are needed to prepare application build assets under cubi/build folder

- app_name.xml. The application main build xml.
- app_name.properties. The application build property file
- app_name.license.txt. The license file of the application.

Command to build the app:

```
# cd cubi/build
# build app_name [target]
```

Example: build cubi application

```
# build cubi tar
```

After running the build command, a "gz" file is generated under /cubi/build/dist/app_name/. The file name depends on the settings in build property file. The property file defines

- build.summary.
- build.version. The version of the build
- build.release. The release of the build

The generated file name is app_name-version-release.gz. For example, build.version is 0.3 and build.release is 1. Then the generated file name will be app_name-0.3-1.gz.

For the syntax of build.xml file, please refer to <http://phing.info/trac/> or <http://ant.apache.org/manual/index.html>

Build installation package

Usually an installation package is desirable for production deployment. After the application source is copied to the target application directory, it is recommended to run post actions including:

- load your application modules
- give write permission to proper folders

An example of rpm build spec is copied below. Please note

- this rpm build spec assumes Apache is the web server to deploy
- the apache conf file and web server reload could be ignored depending on your deployment strategy

```
%define version ##VERSION##
%define release ##RELEASE##
%define name ##PROJECT##

%define contentdir /var/www
%define apacheconfdir %{_sysconfdir}/httpd/conf.d

Summary: ##SUMMARY##
Name: %{name}
Version: %{version}
Release: %{release}
License: GPL
URL: http://developer.com/projects/%{name}
Group: Applications/Internet
Source: %{name}-%{version}-%{release}.tar.gz
BuildArch: noarch
Requires: httpd, php >= 5.1.0, php-mysql, php-pdo, php-xml
Prereq: httpd, php >= 5.1.0
BuildRoot: ##BUILDDIR##

%description
##SUMMARY##
```

```
%prep
%setup -q

%build

%install
rm -rf $RPM_BUILD_ROOT
mkdir -p -m0755 $RPM_BUILD_ROOT${contentdir}/${name}
mkdir -p -m0755 $RPM_BUILD_ROOT${apacheconfdir}

install -m 755 config/${name}.conf $RPM_BUILD_ROOT${apacheconfdir}
cp -rp cubi $RPM_BUILD_ROOT${contentdir}/${name}

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root)
%config %dir %{_sysconfdir}/${name}
%config(noreplace) %{_sysconfdir}/httpd/conf.d/*.conf
%dir %{contentdir}/${name}
%{contentdir}/${name}/cubi

%post
cd %{contentdir}/${name}/cubi
rm -rf files/cache/*
php bin/tools/load_module.php module1
php bin/tools/load_module.php module2
chmod -R 777 log/ session/ files/

RET=`/etc/init.d/httpd status`
if [ "$?" -ne "0" ]; then
    /etc/init.d/httpd start 1>/dev/null
else
    /etc/init.d/httpd graceful 1>/dev/null
fi

%changelog
* Mon Mar 8 2010 Developer Name <email_address>
- Local Build for Linux RPM
```

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