UNICORE packaging

Piotr Piernik

What's new

- New packman features
- Continuous build infrastructure
- Linux repositories

Packman v 2.0

- Support only for components compatible with **Maven 3**
- New output **package type tar.gz**
    - archive contains directory structure similar to typical package produced by maven assembly plugin
- **Common configuration files and executable scripts** for Linux and standard tar.gz packages (config and executable templates)

New configuration

- Special prefixes control files and directory copying (targz. , linux.)
- Automatic processing of macros for config and executable script templates, with different values for Linux and tar.gz packages
- Control of files and directories FS permissions
- Auto detection of Java version

Example configuration

```
#copy with permisions mode
targz.dirs.withDirMode0755.logs.1=src/main/logs

#macros configuration and linux and targz prefix
targz.templates.truststoreType=keystore
linux.templates.truststoreType=SET-ME
targz.templates.truststorePassword=unicore
linux.templates.truststorePassword=SET-ME
targz.templates.truststorePath=conf/truststore.jks
linux.templates.truststorePath=SET-ME
```

Example macros use

- In a spec file:

```
Requires: java-1.@java-main-version@.0-openjdk findutils bash
```

- In a script:

```
# PID file
PID=@pid@
# Startup log
STARTLOG=@log@/unicorex-startup.log
# Location of jar files
LIB=@lib@
# Config directory
CONF=@etc@
```

Status

- Components updated to new packman:
  - UNICOREX
  - Registry
  - TSI
  - Gateway
  - XUUDB
  - Workflow
  - Servorch
  - Portal
- Samples and more information about packman: https://sourceforge.net/p/unicore/wiki/Packman_-_packaging_manager/

Build infrastructure

- Based on Jenkins with extra plugins, custom scripts and custom nodes configuration
- Distributed builds on:
  - Debian 7 (amd64, java7)
  - Centos 6 (amd64, java7)
  - Debian 8 (amd64, java8)
  - Centos 7 (amd64, java8)
- Repository is served for this four Linux distributions.
- After each full build Linux repositories are automatically refreshed

Repositories

- Currently, there are two repositories:
  - Testing repository
    - updated several times a day and contains UNICORE components which are build from svn trunk
    - Build starting hours: 3 AM/PM , 6 AM/PM, 9 AM/PM, 12 AM/PM
  - RC repository
    - Like testing repository, but contains UNICORE components which are build from newest svn tags
    - Build starting hours: 6 AM, 3 PM, 9 PM
- Repositories main page:
  http://unicoresoft.nebula.grid.icm.edu.pl/

Future work

- Release procedure + Release check list + Test plan
- Testbed – testing infrastructure
- Automatic deployment testing