

Packaging and Distributing the AG Toolkit

Eric Olson
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Overview

- Background and Requirements
- Platform Plans
- General Packaging Strategy
- Testing Packages
- Toolkit Packaging

Background and Requirements

- Goal
 - Get the software to the users.
- Requirements
 - Simple package for easy retrieval and installation by users.
 - Include software and its dependencies.
 - Support multiple platforms, distributions, and configurations.
 - Verify a working package.

Platform Plans

- Windows
- Linux / Unix
- OSX

General Packaging Strategy

- Build Tool
 - Verify build environment
 - Parse command-line options
 - Setup build information and locations
 - Checkout AG code (if necessary)
 - Build python module dependencies
 - Run tests
 - Generate documentation
 - Build service and application packages
 - Run platform specific packaging tools

Testing Packages

- Automatic Testing
- Manual Testing

Toolkit Packaging – Windows

- Parse command-line options
- Locate InnoSetup build tools and AG .iss configuration
- Run InnoSetup to create installer .exe file.

Toolkit Packaging – Linux

- Create source package
 - Parse command-line options
 - Setup build information and locations
 - Define packages to include
 - Create source tar.gz
- Build next level package
 - Debian, Fedora, Gentoo, Redhat, Slackware...

Toolkit Packaging – Linux

- Parse command-line options
- Setup build information and locations
- Build Globus package
- Build Access Grid package
- Create installer bundle
 - Install script
 - Packages

Toolkit Packaging – OS X

- Parse command-line options
- Setup build information and locations
- Build Globus package
- Build Access Grid package
- Create Disk Image (DMG)

Access Grid Package Manager

- Access Grid Packages (.agpkg)
 - Double-click to install a package from the venue.
 - New installations are detected by running Venue Clients.
- Shared Applications
 - System Installations
 - Installed by default for all users.
 - User Installations
 - If installed will start instead of the system default.



Platform Support

- Windows
- Linux
 - Source tarball
 - Redhat 7.3 (not supported after 2.2)
 - Fedora
 - Slackware
 - Debian
 - Gentoo
- OSX

Porting to a New Platform

- Download the source.
- Create a new packaging directory.
- Modify or create scripts to build packages for your platform.
 - If you need help, ask the AG developers or AG community through the ag-tech mailing list.
- Submit build scripts you want checked into CVS.
- Submit packages to post to the web.
- Use bugzilla to track and fix any issues.



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