

AutoPkgr with FileWave

Description

AutoPkgr is an automation framework for macOS software packaging and distribution, oriented toward the tasks one would normally perform manually to prepare third-party software for mass deployment to managed clients. An important use in conjunction with FileWave is to provide a way to turn 3rd party software updates into Filesets on an automated basis.

Ingredients

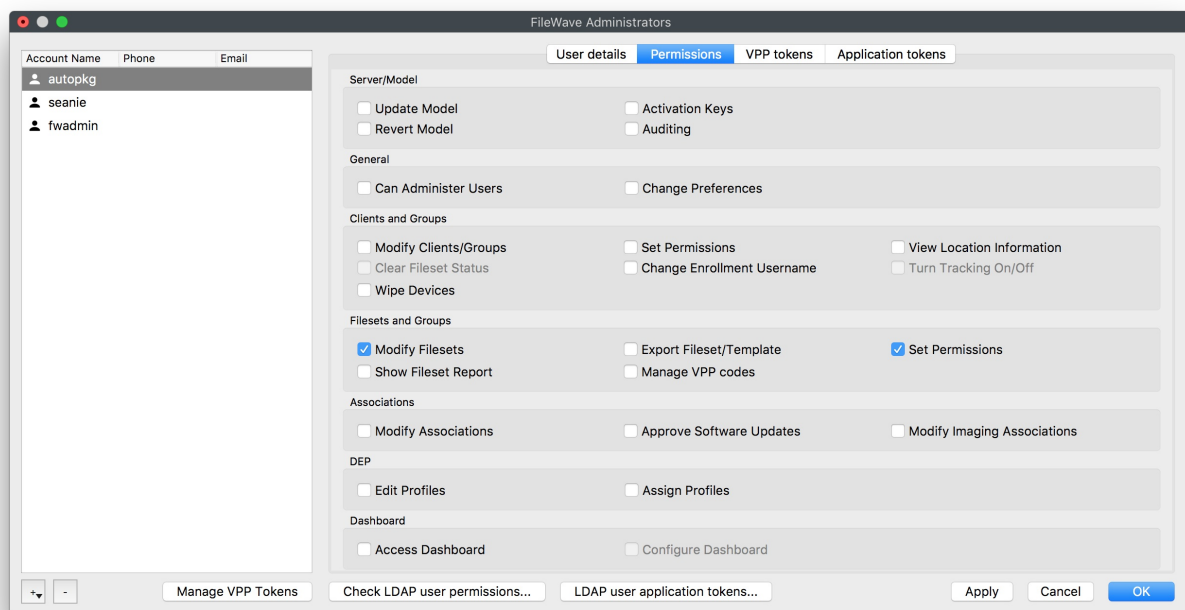
- FW Admin
- AutoPkgr Installer
- An 'always on' computer

Directions

Complementing the below setup, there is also a Foundry presentation about this and, additional configuration and typical stumbling blocks: [FileWave and AutoPkgr](#)

Setup FileWave

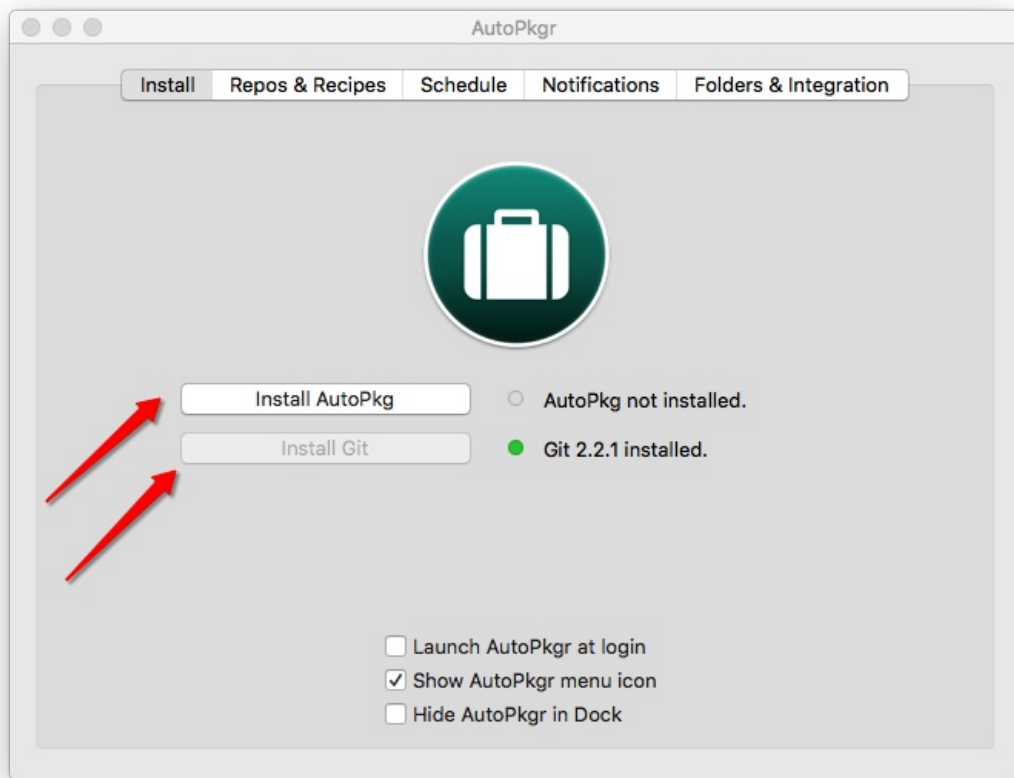
- Go to FileWave Admin -> Assistants -> Manage Administrators



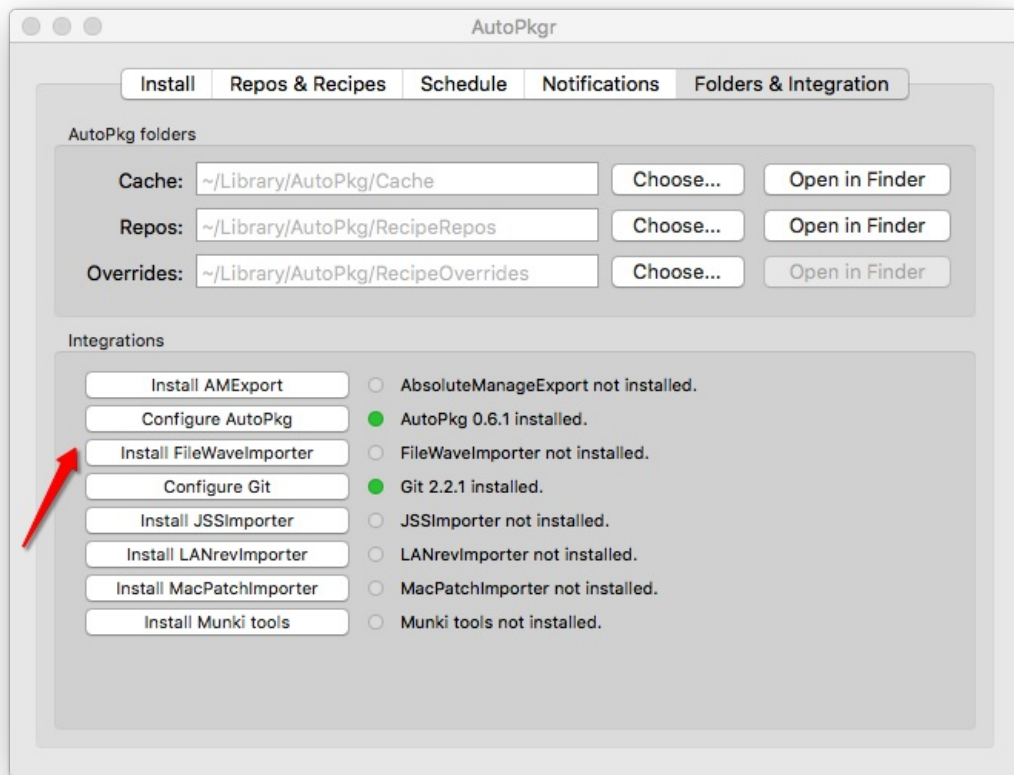
- Click on the + button to add a new Administrator
Select Local Account, (for example autopkg and the password autopkg as well)
- Go to Permissions tab and click on Select None
- Allow the autopkg user to 'Modify Filesets' and 'Set Permissions' as per the above screenshot.
- Click Apply
- Confirm with OK

Setup AutoPkgr

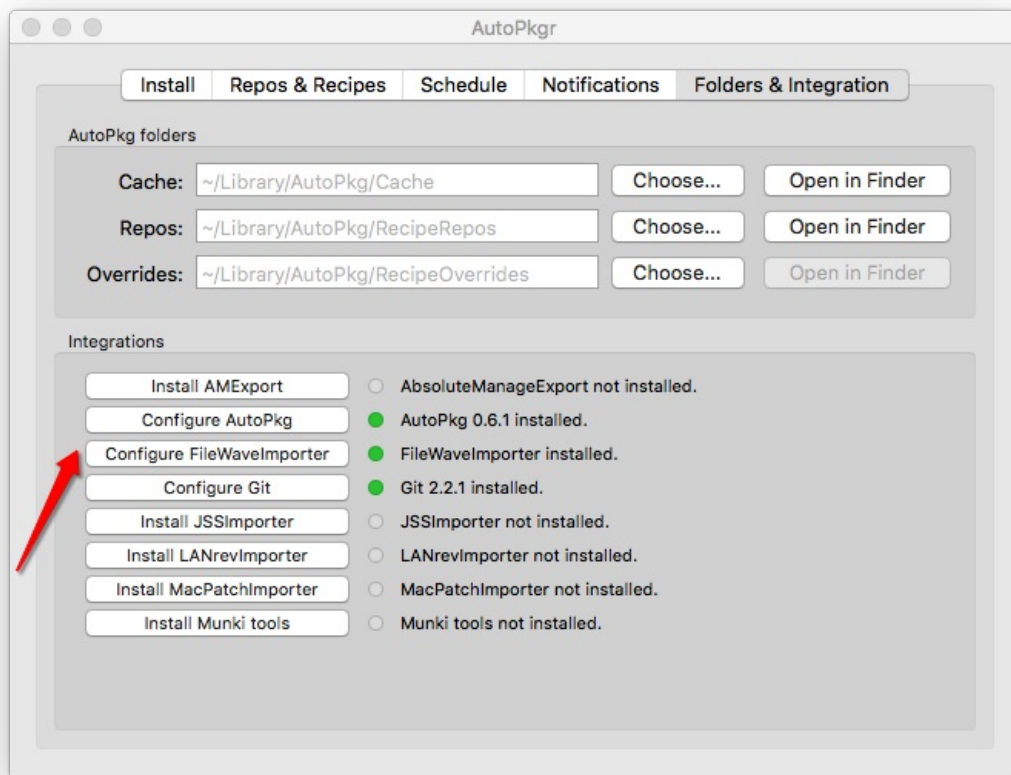
- Go to <https://github.com/lindegroupp/autopkg/releases/latest>
- Download, install and launch AutoPkgr
- Launch AutoPkgr, Click on "Install AutoPkgr", and "Install Git"



- Go to Folders & Integration and click on Install FileWaveImporter:



- Click on Configure FileWaveImporter:



- Enter your FileWave Server Hostname

FileWaveImporter Integration

FileWave Server Hostname:

FileWave Server Port:

Username:

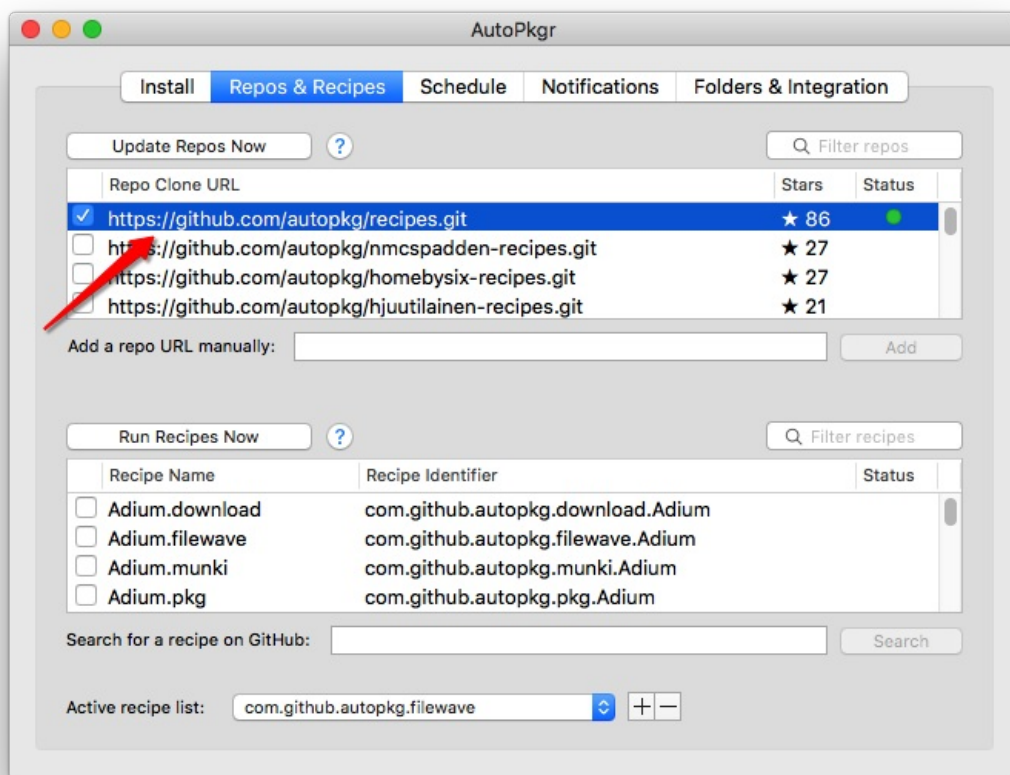
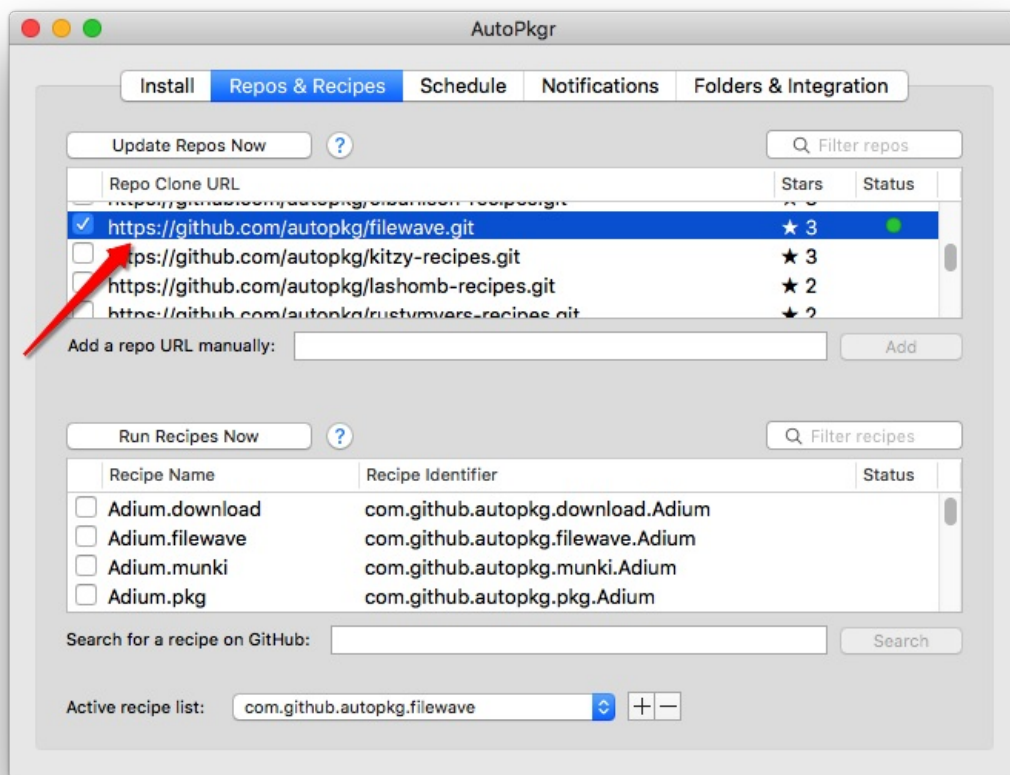
Password:

☐

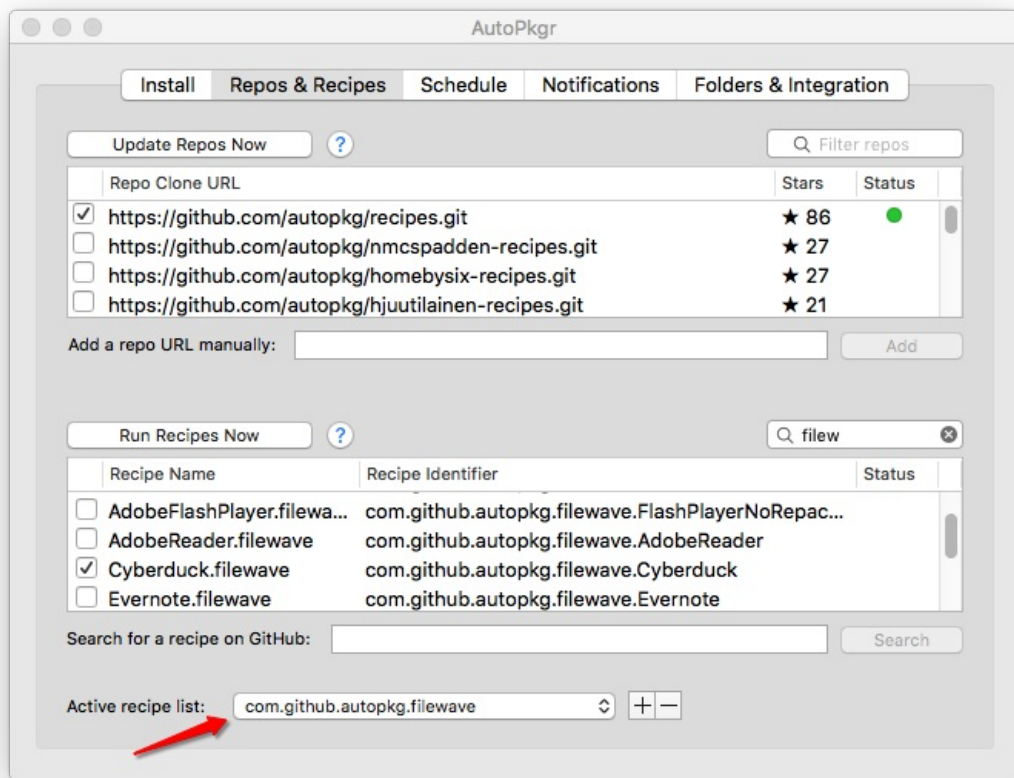
Copyright 2015 FileWave (Europe) GmbH
<http://www.apache.org/licenses/LICENSE-2.0>

<https://github.com/autopkg/filewave>

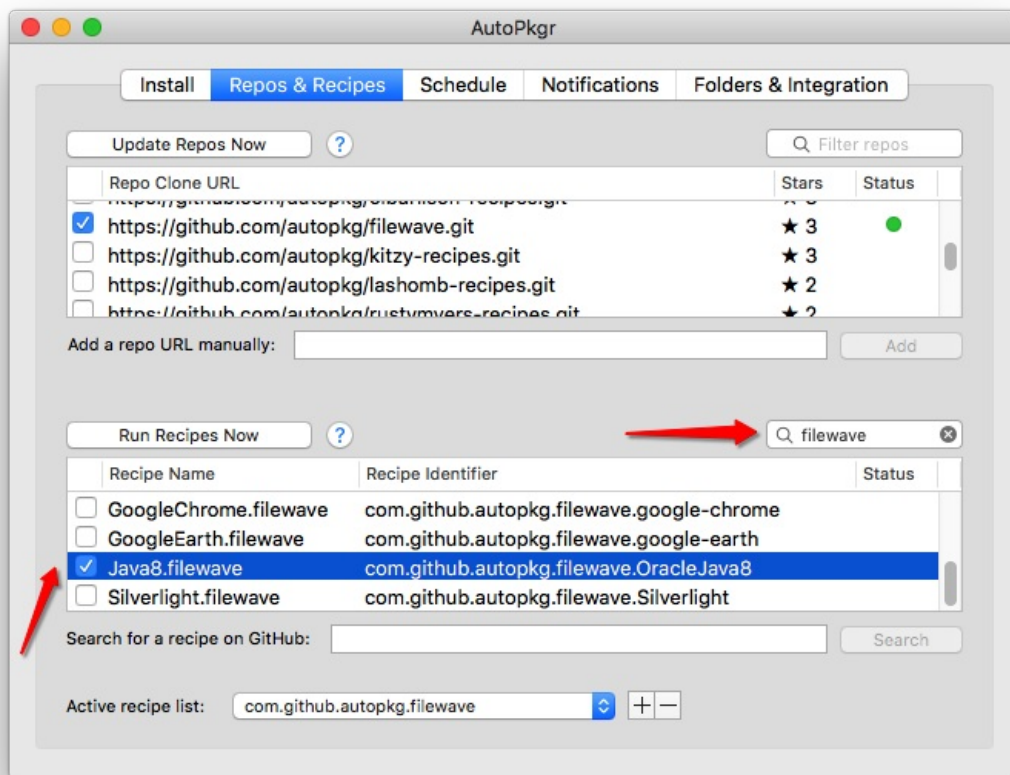
- FileWave Server Port is already set to 20016
- Username is e.g. autopkg
- Password is e.g. autopkg
- Click on Verify to validate the setup
- Click on Save and Close
- Go to Repos & Recipes and verify that <https://github.com/autopkg/recipes.git> and <https://github.com/autopkg/filewave/git> are checked



- Make sure that 'Active recipe list' has added com.github.autopkg.filewave:



- Now You can run a Recipe for example Java8. To find it quickly enter filewave on search bar and check the Java8 recipe:

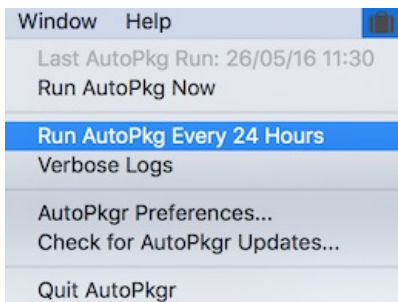


Security and Trust Relationship

- Running recipes directly from a cloned repo will bypass AutoPkgr's security mechanism. As such an Override recipe should always be created and run. This builds a local recipe with a trust relationship between this and any linked 'parent' recipes, see

below. For additional information on Override recipes and more, please view the Foundry video: [FileWave and AutoPkg](#)

- Congratulations ! Your AutoPkg setup is now complete. Choose the recipes you would like to run on a regular basis , and then schedule AutoPkg to run every 24 hours.



Recipe Updates

On occasion recipes that were working will fail to run. Typically this is because something has changed regarding the 3rd party's website or download. This will require the author of the relevant recipe to update their recipe to implement this change. In this instance of failed recipes, check for recipe updates 'Update Recipes Now'. For any updated recipe, changes should be observed and then the trust relationship will need to be updated too; see below. Override recipes can additionally customise the Fileset, Fileset groups, etc.

Override Recipes & Trust Relationship

For security, a trust relationship was added between recipes. The idea is the child recipe is made to trust it's parent recipes. If an updated version of a parent recipe is pulled from a repository, then this parent will no longer be trusted by that child, until the trust relationship is manually updated. AutoPkg does not offer the ability to change trust and so this must be done via the command line.

With no trust, when a recipe is run that relies on parent recipes you will see an error similar when running the recipe from Terminal:

```
$ autopkg run -v OracleJava8.filewave.local
Processing OracleJava8.filewave.local...
Failed local trust verification.
Receipt written to /tmp/receipts/OracleJava8.filewave-receipt-20180409-141621.plist

The following recipes failed:
  OracleJava8.filewave.local
    No trust information present.

Nothing downloaded, packaged or imported.
```

In this example, Creating a Recipe Override will create a recipe that has trust added for us. Using the above Java8 example, first make an Override recipe. The Override recipe and initial trust can be created in either AutoPkg or using the command line. The Java 8 override recipe will be called "Java8.filewave.override". The last entry is reference to the parent recipe to be overridden (this can be either be recipe name or it's identifier, recipe name used in this example):

```
$ autopkg make-override -n Java8.filewave.override Java8.filewave
```

By making the override file in this way, the trust relationship has been added automatically to the Override recipe. Now there is a trust relationship, the override file can be used to run the recipe (either through Terminal or AutoPkg):

```
$ autopkg run -v OracleJava8.filewave.override
Processing OracleJava8.filewave.override...

[lines removed]

The following fileset was imported:
  Fw Fileset Id  Fw Fileset Group  Fw Fileset Name
-----
  194266        Root              Java - 1.8.161.12

The following packages were copied:
  Pkg Path
-----
```

```
/Users/Shared/Autopkg/Cache/local.override.filewave.OracleJava8/Java-1.8.161.12.pkg
```

The following new items were downloaded:

Download Path

```
/Users/Shared/Autopkg/Cache/local.override.filewave.OracleJava8/downloads/Java.dmg
```

If after updating repos, the trust relationship error is flagged against any recipes, this indicates that a parent has been updated and trust is no longer in place. At this point, the parent should be reviewed to observe the changes made. Changes to a recipe can easily be viewed by navigating to the relevant recipe on GitHub and viewing the 'History'.

Once confirmation has been made that the changes are acceptable, a new trust relationship should be created. As an override file already exists, the trust will need to be updated for the Java 8 override recipe; as such re-trusting all parents:

```
$ autopkg update-trust-info Java8.filewave.override
```

Although it is possible to disable trust relationship, this should not be recommended for security reasons. Current status can be seen by running the following and checking the value of 'FAIL_RECIPES_WITHOUT_TRUST_INFO':

```
$ autopkg info
```

It is possible to temporarily override the trust relationship, such that it is ignored:

```
$ autopkg run --ignore-parent-trust-verification-errors [name of recipe]
```

Important



FOR SECURITY REASONS, IT IS ALWAYS RECOMMENDED THAT RECIPES ARE CHECKED BEFORE INGESTING INTO YOUR FILEWAVE SERVER AND CREATED FILESETS ARE SUBSEQUENTLY CHECKED ON TEST MACHINES BEFORE DEPLOYING TO LARGER GROUPS OF MACHINES

Related Content

- [Autopkg\(r\) FAIL_RECIPES_WITHOUT_TRUST_INFO](#)
- FileWave & AutoPkg Instructions - <https://github.com/autopkg/filewave>
- The primary site for AutoPkg - <http://autopkg.github.io/autopkg>
- Github Site for AutoPkg - <https://github.com/autopkg/autopkg>
- AutoPkg website - <http://www.lindegroup.com/autopkg>
- AutoPkg Trust - <https://github.com/autopkg/autopkg/wiki/AutoPkg-and-recipe-parent-trust-info>

🔄Revision #6

★Created 13 July 2023 22:30:22 by Josh Levitsky

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