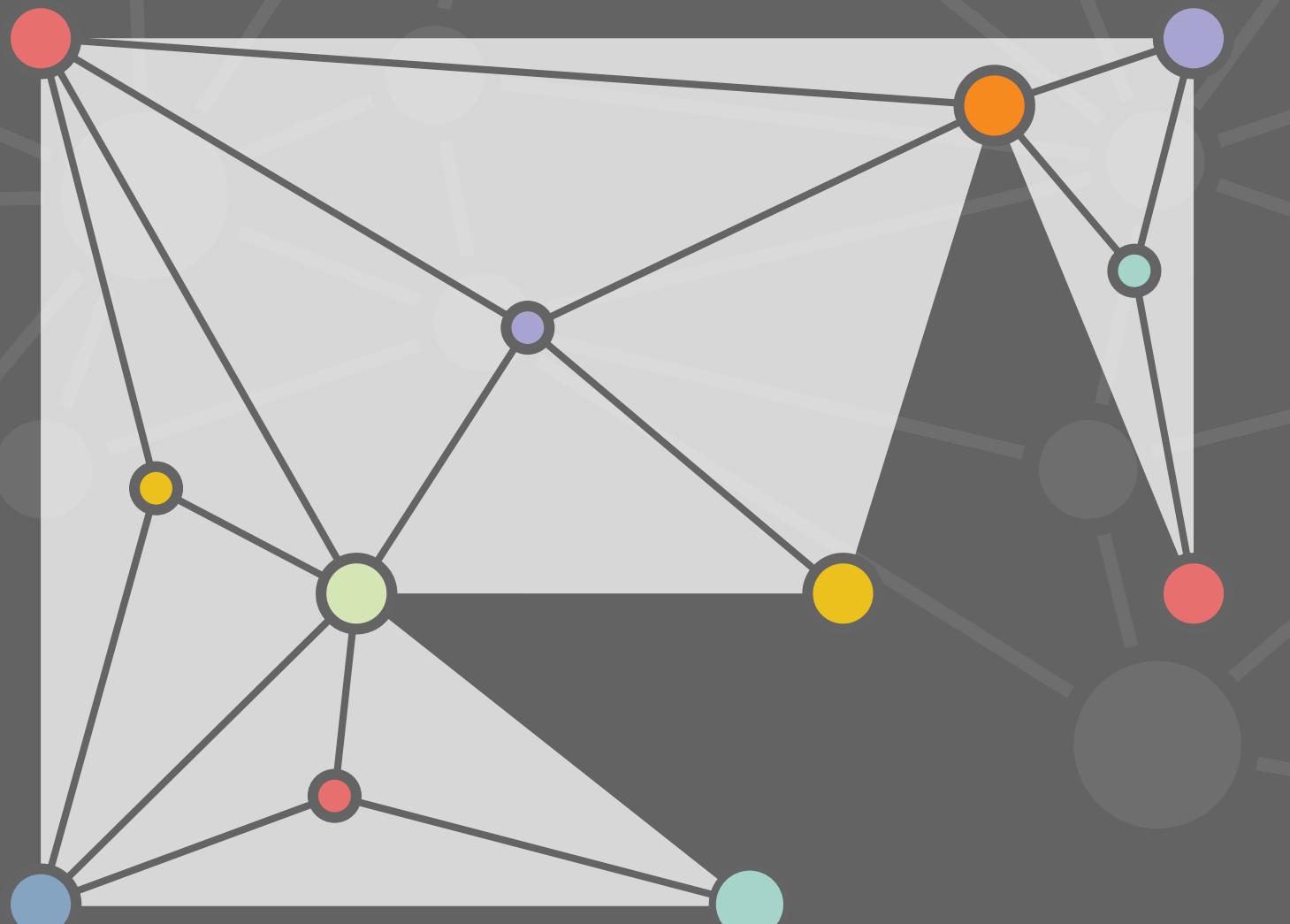




# JAMF NATION

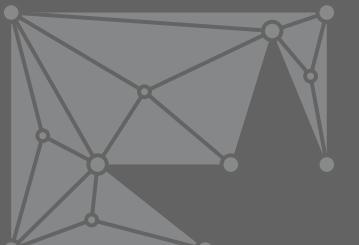
## User conference

OCTOBER 21-23 2014 MINNEAPOLIS, MN

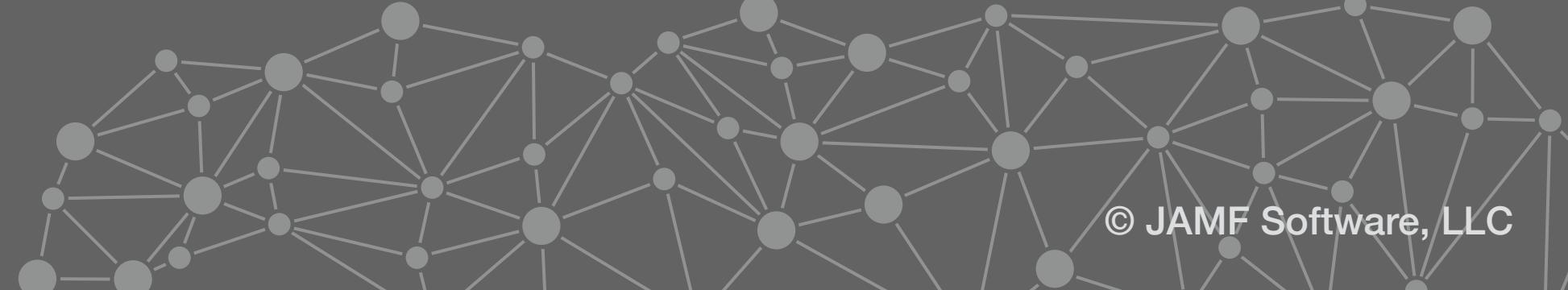


# Auto-update magic!

Keeping Mac apps up to date automatically with Casper and AutoPkgr



JAMF NATION  
user conference  
OCTOBER 21-23, 2014 MINNEAPOLIS, MN



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# Elliot Jordan

Senior IT Consultant  
Linde Group



**JAMF NATION**  
user conference  
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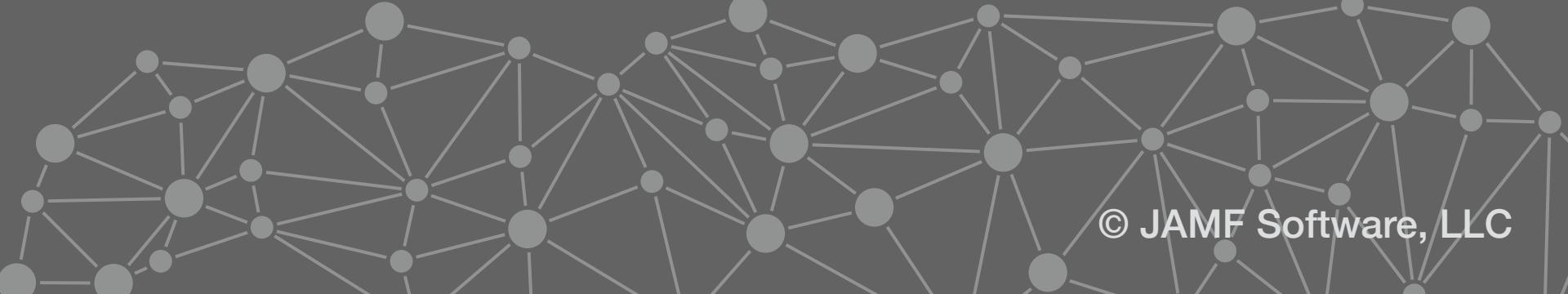
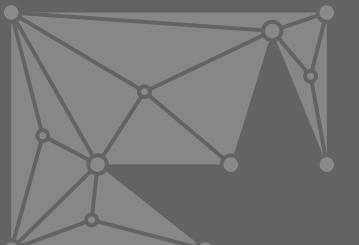
# Auto-update magic!

How we used to keep apps fresh

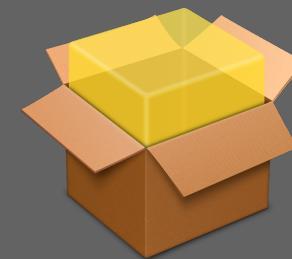
The “magic” way we do it now

How to set up the magic yourself

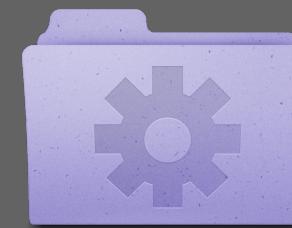
Questions and answers



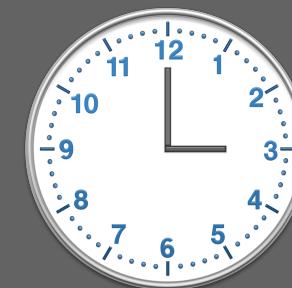
# How we used to keep apps fresh



IT team uses Composer to create .pkg.



Smart group reports app is out of date.



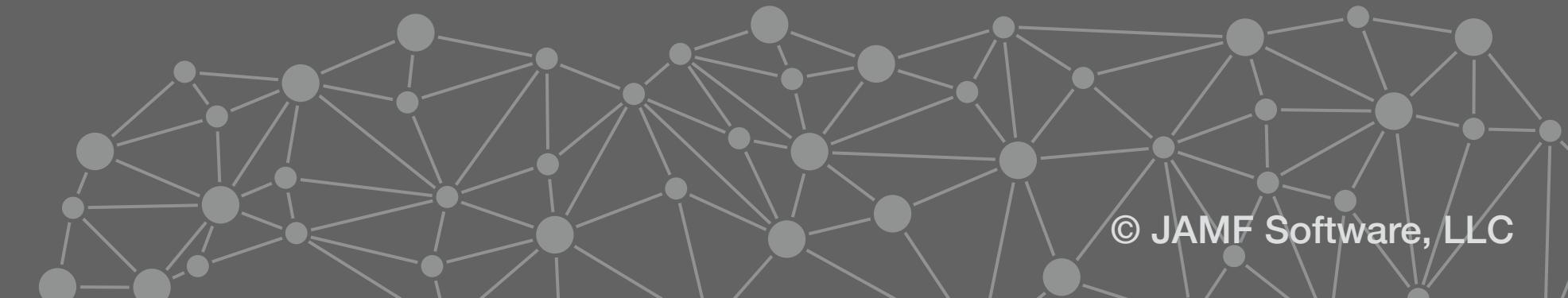
Policy runs daily and triggers a script.



Script checks whether app is open.



If not, the script triggers an installer policy.



# The old pain points



Composing a package is tedious and error-prone.



Group criteria must be manually updated.



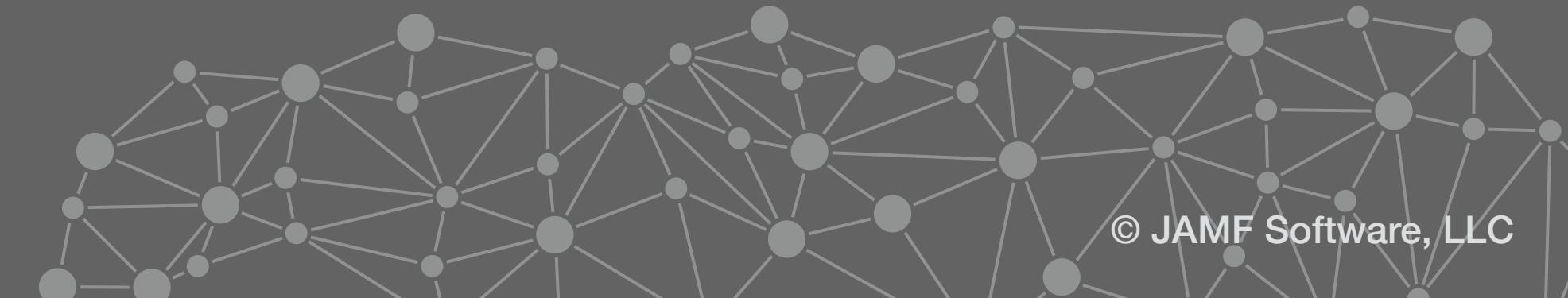
Requires IT team to react quickly to new releases.



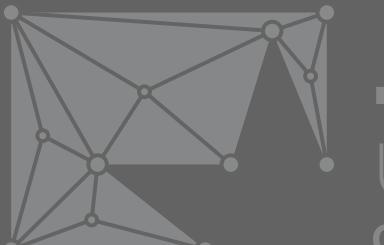
Trigger policies basically double your policy load.



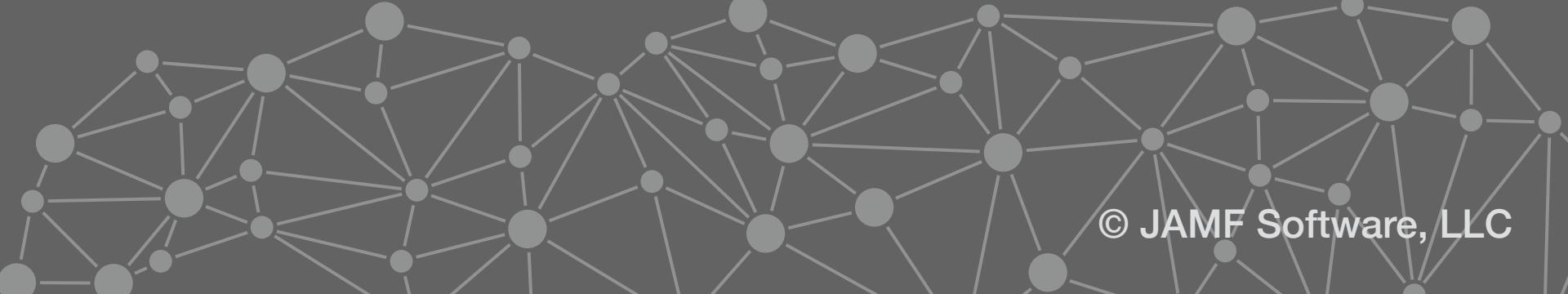
Installer policy must be updated with each version.



# There's got to be a better way!

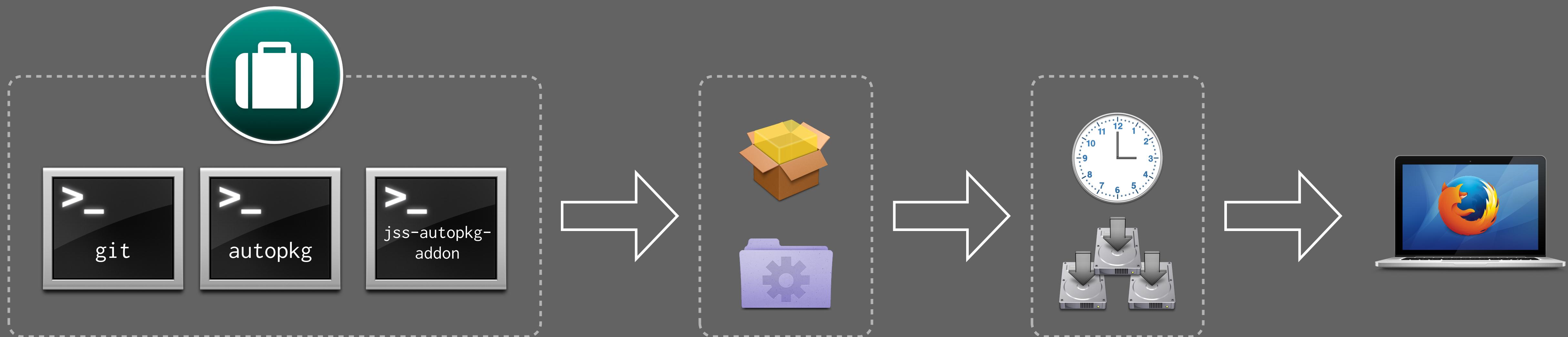


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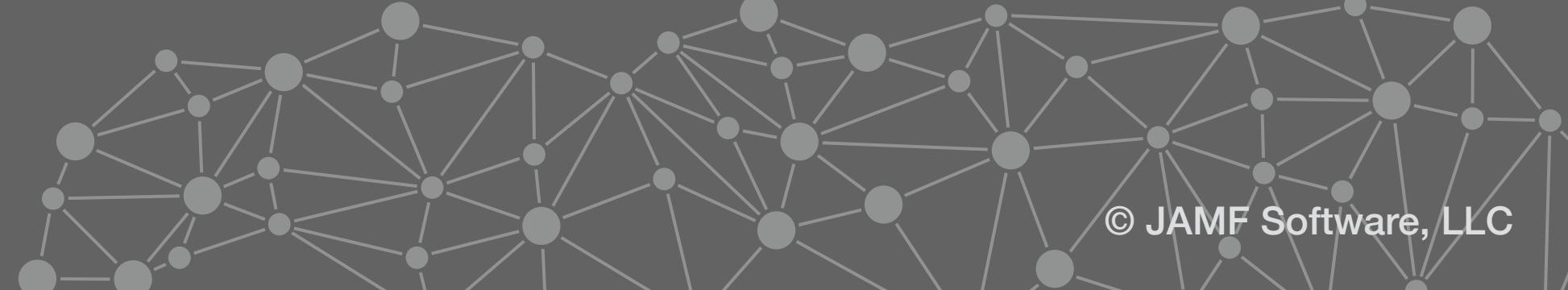


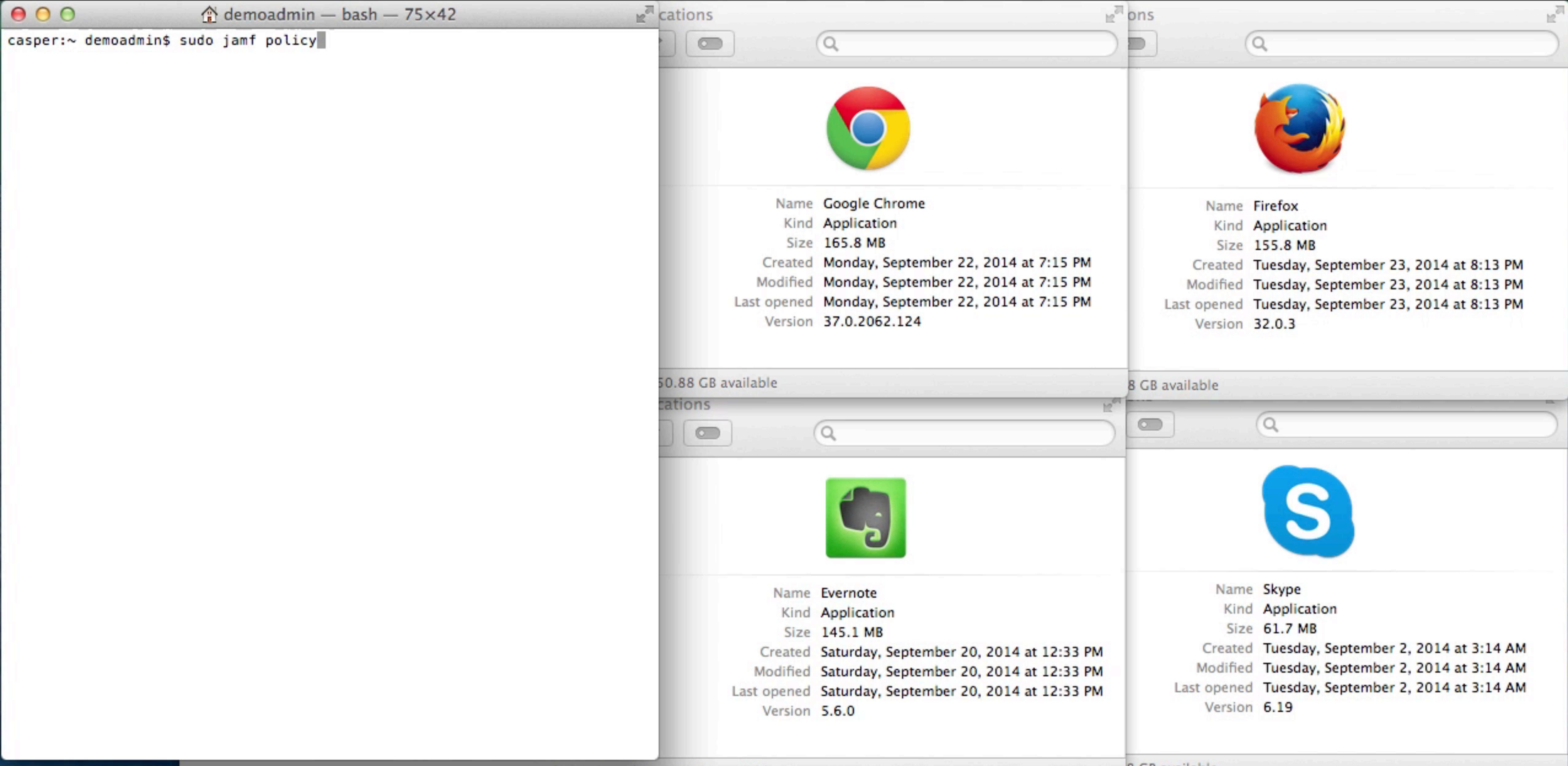
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# The Magic



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# The old pain points, now less painful



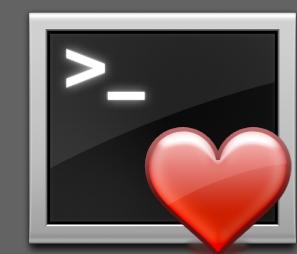
Tedious package creation is automated.



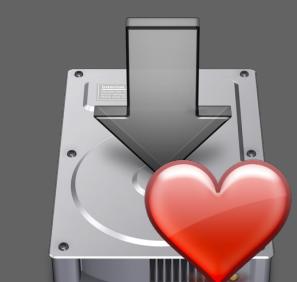
Group criteria are automatically updated.



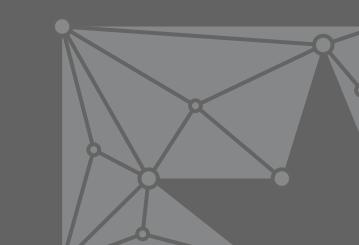
IT team can focus their attention elsewhere.



A single trigger policy manages all updates.



Installer policy is automatically updated.



# AutoPkg

“...an automation framework for OS X software packaging and distribution.”

Greg Neagle, Tim Sutton, Per Olofsson

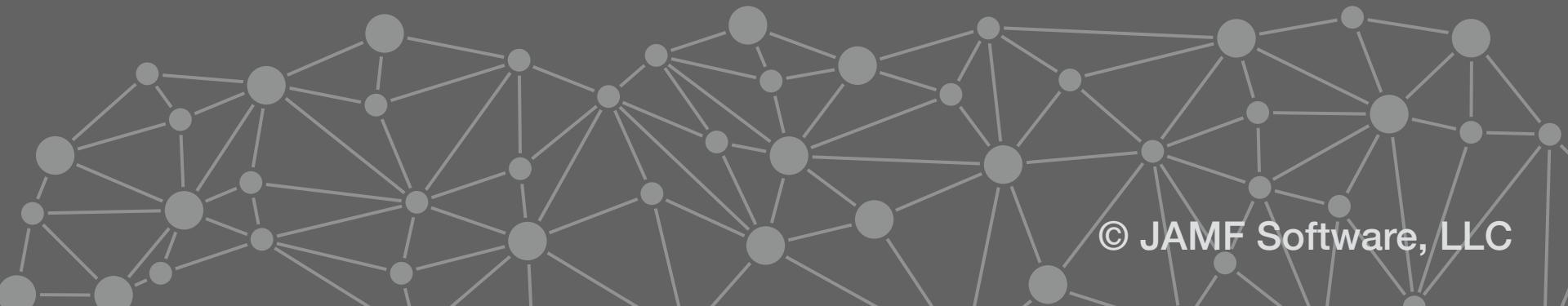
```
$ autopkg run Evernote.pkg Firefox.pkg GitHub.pkg
```

```
Processing Evernote.pkg...
Processing Firefox.pkg...
Processing GitHub.pkg...
```

```
The following new items were downloaded:
Evernote_RELEASE_5.6.1_450845.zip
Firefox.dmg
GitHub.zip
```

```
The following packages were built:
```

Identifier	Version	Pkg path
com.evernote.Evernote	5.6.1	Evernote-5.6.1.pkg
org.mozilla.firefox.pkg	33.0	Firefox-33.0.pkg
com.github.GitHub	190	GitHub-190.pkg



# jss-autopkg-addon

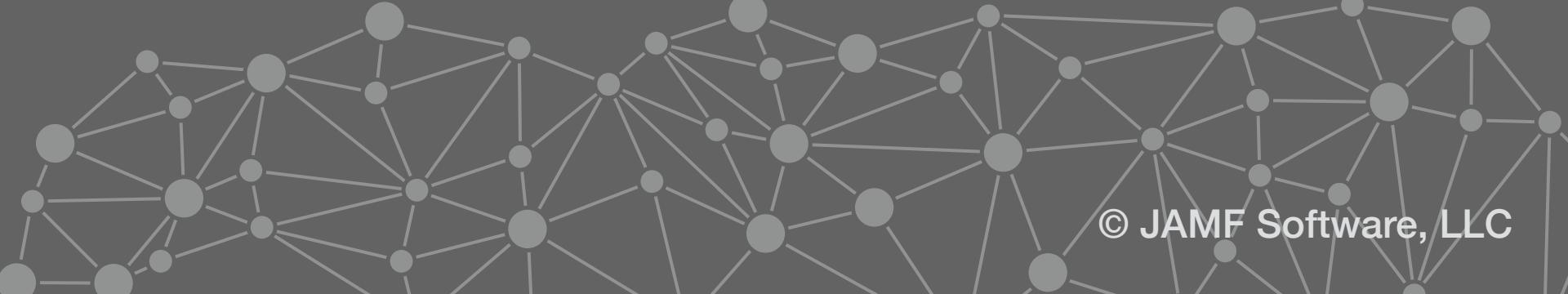
Connects AutoPkg to a JSS, allowing creation of policies and other objects automatically.

Allister Banks, Shea Craig

```
def handle_category(self, category_type):
    category_name = self.env.get(category_type)
    if not category_name == "*LEAVE_OUT*":
        try:
            category = self.j.Category(category_name)
            self.output("Category type: %s-%s already exists "
                       "according to JSS, moving on" %
                       (category_type, category_name))
        except jss.JSSGetError:
            # Category doesn't exist
            category = jss.Category(self.j, category_name)
            category.save()
            self.env["jss_category_added"] = True
    else:
        self.output("Category creation for '%s' not desired, "
                   "moving on" % category_type)
        category = None

    return category

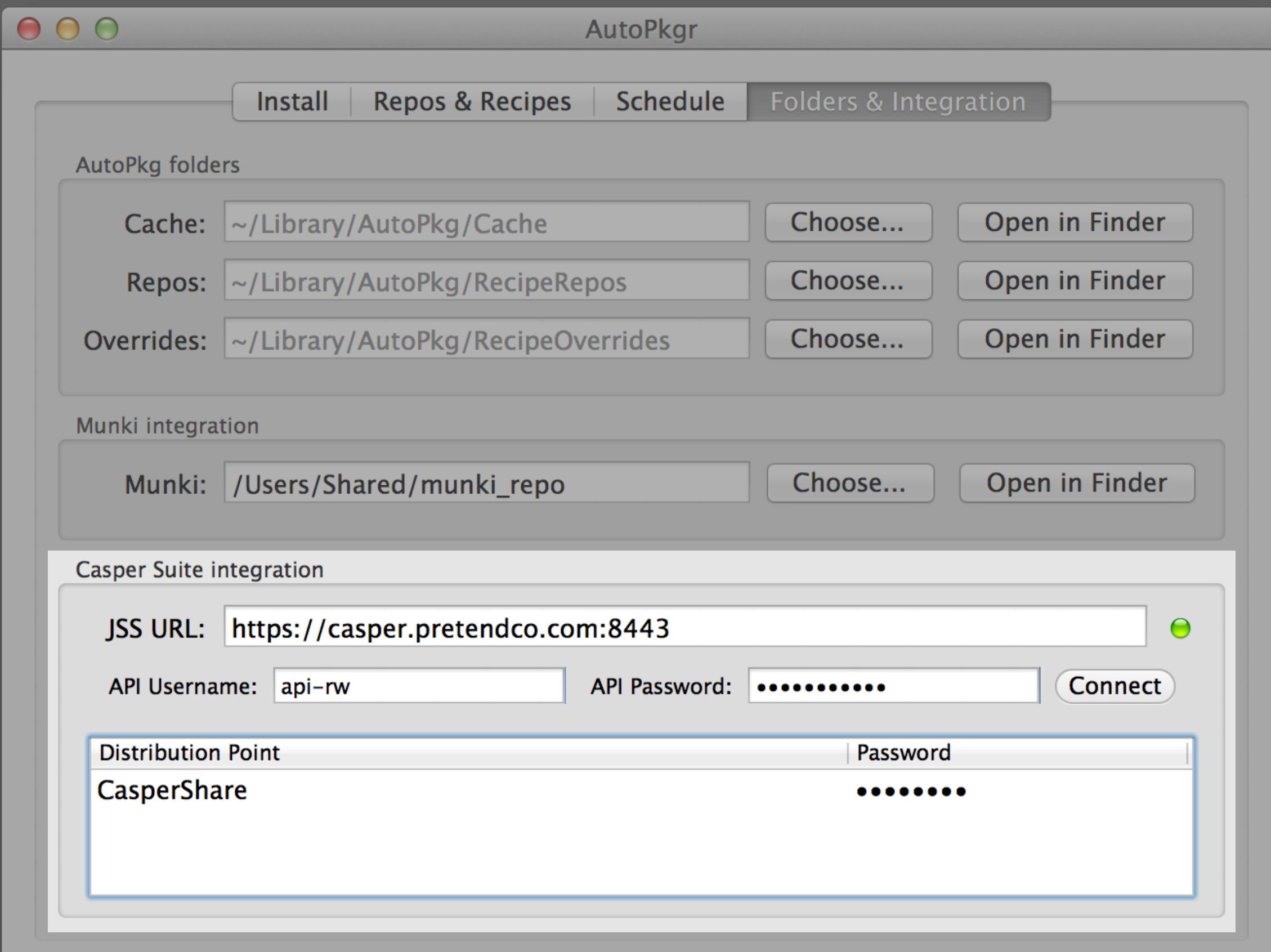
def handle_package(self):
    os_requirements = self.env.get("os_requirements")
```



# AutoPkgr

Mac app that puts a friendly interface on AutoPkg and makes it easy to get started.

James Barclay, Elliot Jordan, Josh Senick,  
Eldon Ahrold



# Level 1: Self Service Only

## Level 2: Auto to Some

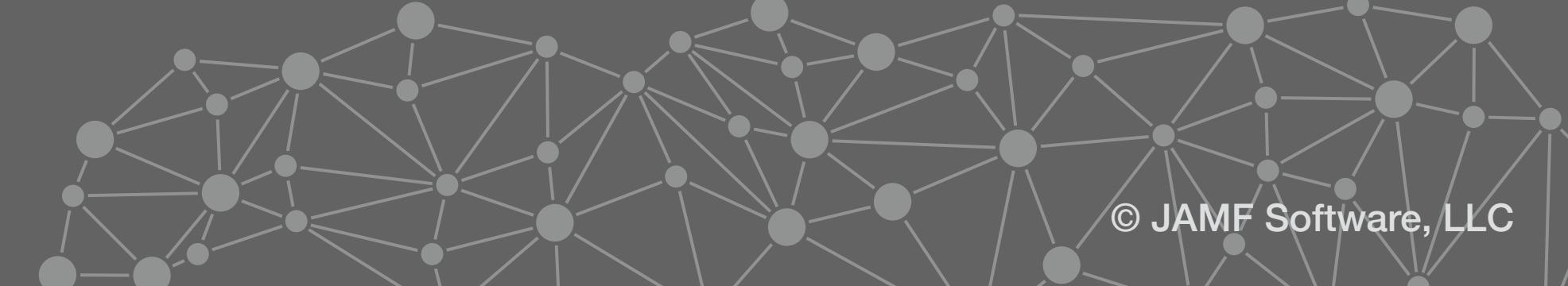
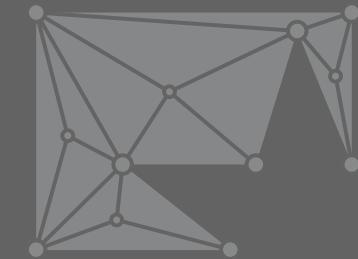
## Level 3: Auto to All



AutoPkg imports new versions of packages directly into your JSS, creates a Self Service policy, and scopes it to the Testing group.

- Easy to configure.
- Of the three methods, this is the one least likely to break things.
- Great for testing a policy or getting started with AutoPkgr-Casper integration.

**This default behavior is extra cautious. So should you be.**





Macintosh HD



Level 1:  
Self Service Only

Level 2:  
Auto to Some

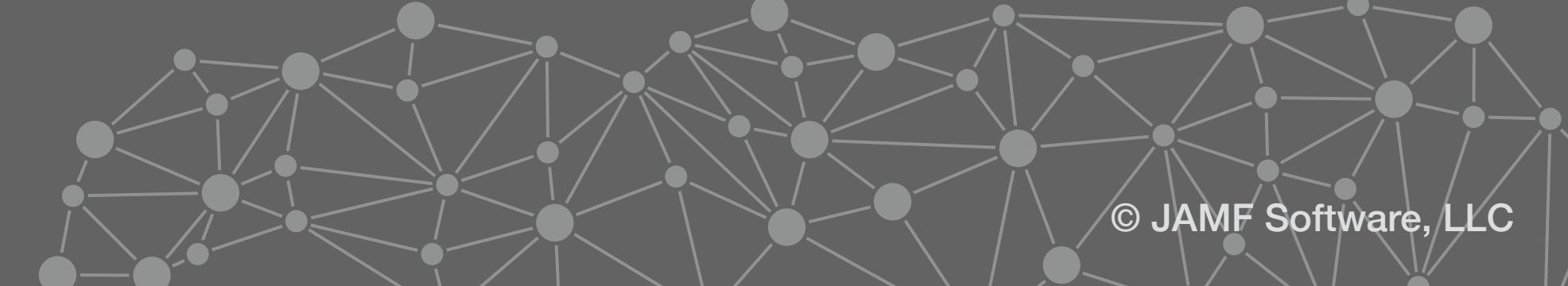
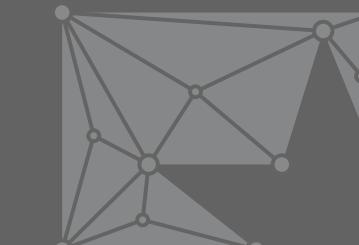
Level 3:  
Auto to All



Computers in the Testing group that don't have the latest version are automatically and invisibly updated.

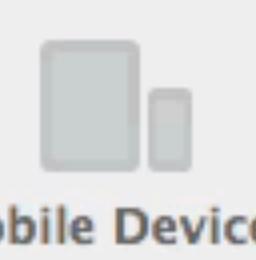
- Safe if you trust your Testing group to give you useful and prompt feedback.
- Easy to use Testing policy as a launching-off point for a “deploy to all” policy.

**A good compromise between automation and potential risk.**

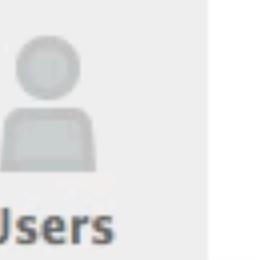




Computers



Mobile Devices



Users

jssadmin ▾



Search Inventory &gt;

Licensed Software &gt;

Policies &gt;

Configuration Profiles &gt;

Managed Preferences &gt;

Restricted Software &gt;

PreStage Imaging &gt;

Mac App Store Apps &gt;

eBooks &gt;

Smart Computer Groups &gt;

Static Computer Groups &gt;

Enrollment Invitations &gt;

Management Settings &gt;

## Policies (2)



New

Show All

Hide All

Filter Policies

Name	Frequency	Trigger	Scope
- No category assigned			
+ Mozilla Firefox	Ongoing	Self Service	All computers
+ Update Inventory	Once every week	Check-in	All computers



Level 1:  
Self Service Only

Level 2:  
Auto to Some

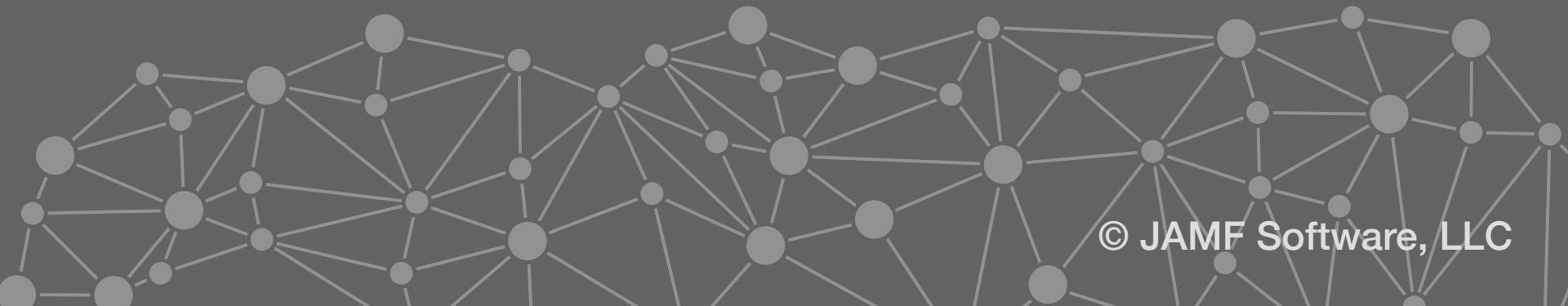
Level 3:  
Auto to All



A policy is automatically created that scopes the upgrade to occur on all computers that don't already have it.

- Danger, proceed with caution. Test on yourself first.
- Best for non-mission-critical apps.
- Easier to admin (unless something breaks).

**You should *not* do this. (Now let me show you how.)**





Macintosh HD



CasperShare



# A few notes and caveats

Bleeding edge, there will be bugs and workarounds.

Latest version of script specifies app/recipe name separately:

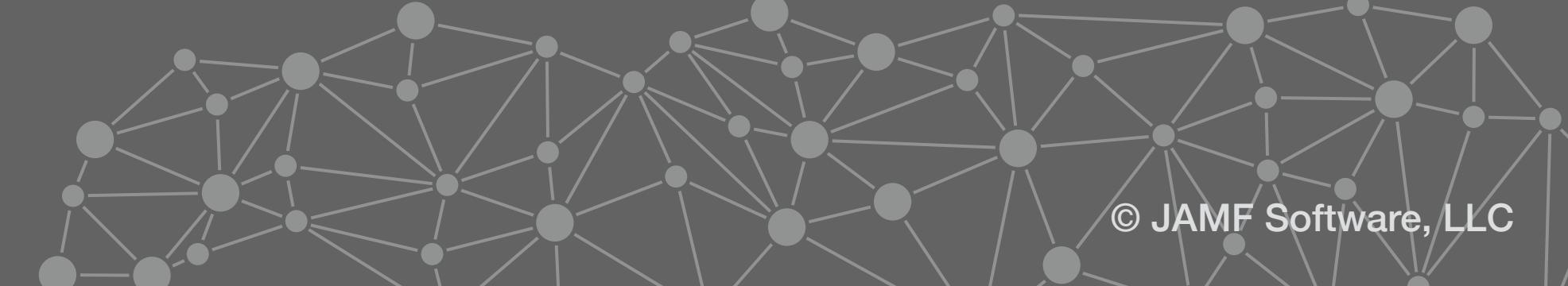
“Google Chrome, GoogleChrome”

Minor change to XML templates necessary for Flash, Java:

```
<trigger_other>autoupdate-%PROD_NAME%</trigger_other>
<trigger_checkin>true</trigger_checkin>
```

Doesn’t (yet) work for always-on apps like Dropbox.

Open-source. JAMF will not provide help for non-JAMF tools.

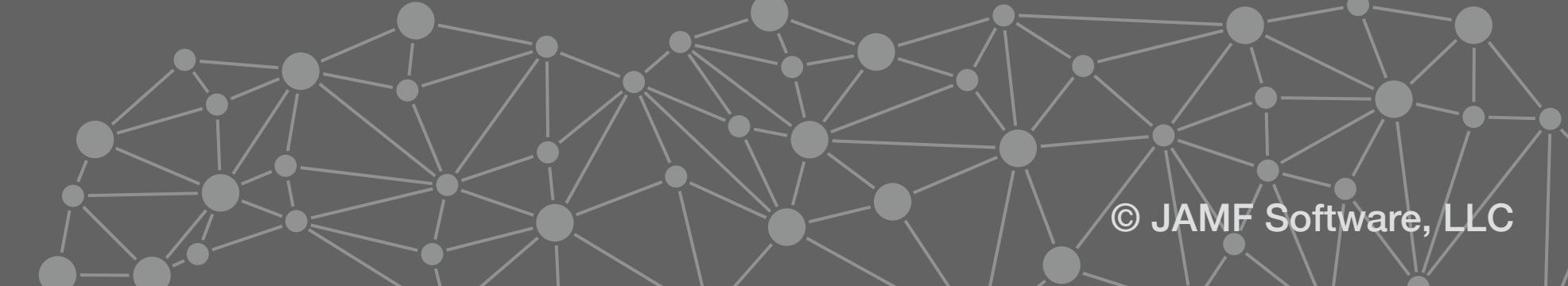
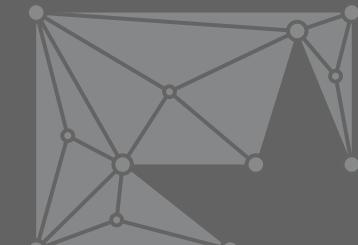


# Acknowledgements

**AutoPkgr:** James Barclay, Eldon Ahrold, Josh Senick, Peter Linde

**jss-autopkg-addon:** Shea Craig, Allister Banks

**autopkg:** Greg Neagle, Tim Sutton, Per Olofsson



# More information

Step by step how-to guide

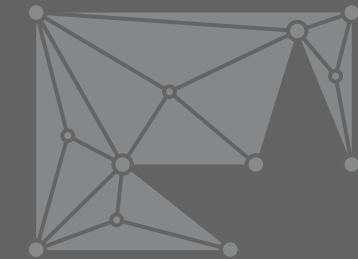
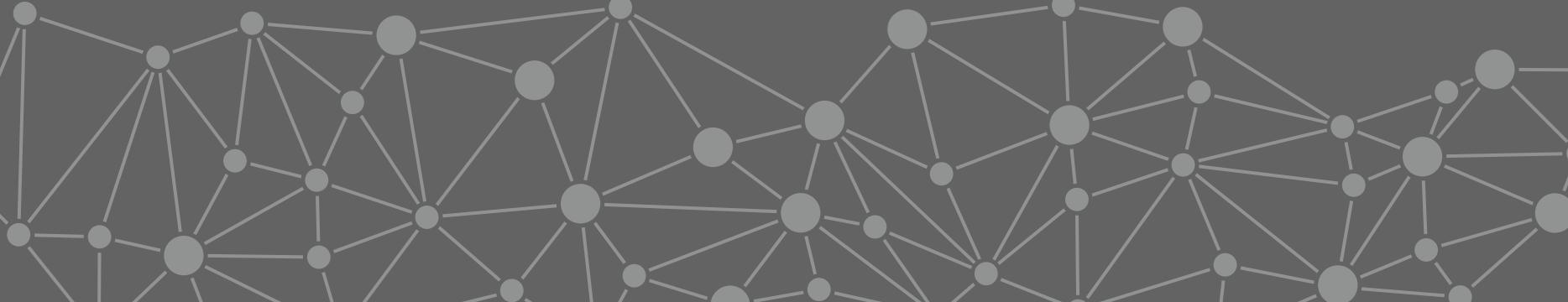
Latest version of auto\_update\_magic.sh script

Some example policy/group templates

Notes and updates

Link to this slide deck

<http://github.com/homebysix/auto-update-magic>



# Thank you!

<http://github.com/homebysix/auto-update-magic>