

Management of Monkeys

Tom Bridge, Hollywood Upstairs
Veterinary School

Munki For Management

Tom Bridge, Technolutionary LLC

What's the Point?



(Un)Known
State

The diagram consists of a blue pentagon on the left, a green arrow pointing right in the center, and a blue diamond on the right. The pentagon contains the text '(Un)Known State' and the diamond contains the text 'Known Good State'. The background is a dark blue with a fine grid of small circles.

Known
Good State

How Does Munki Work?

How Does Munki Work?

- ✦ All the hard work happens on the client
- ✦ Client software runs hourly, checks in and performs tasks
- ✦ Compares current load-out to Catalog & Manifest
- ✦ Downloads necessary changes
- ✦ Installs packages as an admin user if permitted, allowing restarts
- ✦ Performs actions contained in `nopkg` installs
- ✦ Works well with other deployment environments

What Does Munki Need?

- ✦ A Web Server
- ✦ Structured XML Files (.plist)
- ✦ The Munki client packages



Known State Machine



Known Good State Machine

Catalogs

Testing

Production

Development

Catalogs

Students

Teachers

Admin

Catalogs

Management

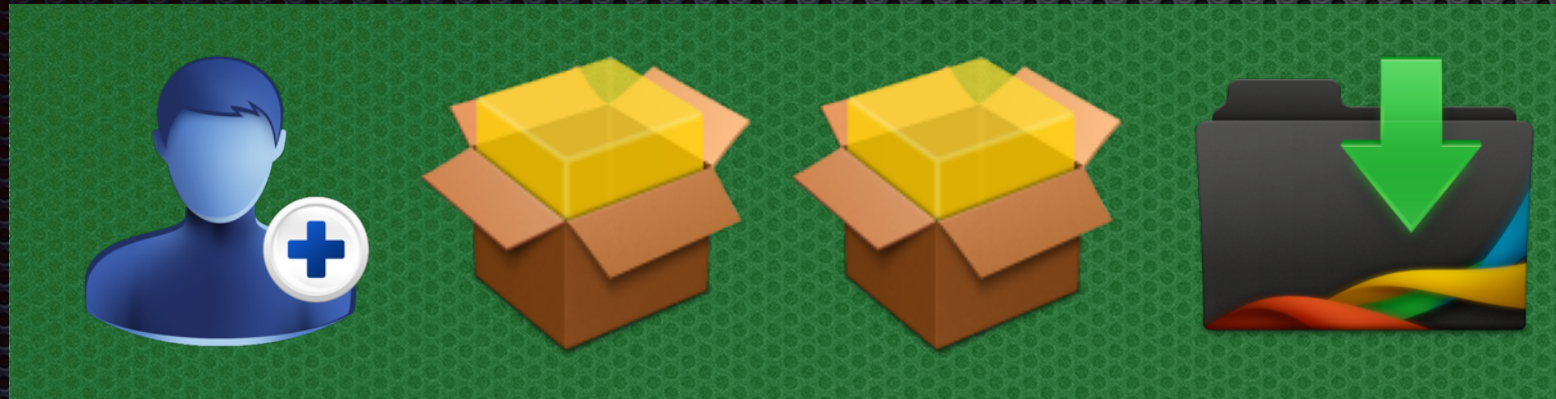
Accounting

Creative Services

Catalogs + Manifests =
Variegated & Heterogeneous
Deployment

Catalogs + Manifests =
Agile Deployment

Master Catalog



IT
Manifest



Creative
Catalog



Known Good State Machine

Other Key Concepts

- ✦ Pre-flight and Post-flight Scripting
- ✦ Forced Updates (Velvet Glove and Iron Fist)
- ✦ Optional Software for Self Service Deployment
- ✦ Works with Apple Software Updates via ASUS or Reposado
- ✦ Payload-Free Packages Work Great, Too

It's Dangerous To Go Alone Here, Take This!



AutoPKGR



MunkiAdmin



AutoPKG

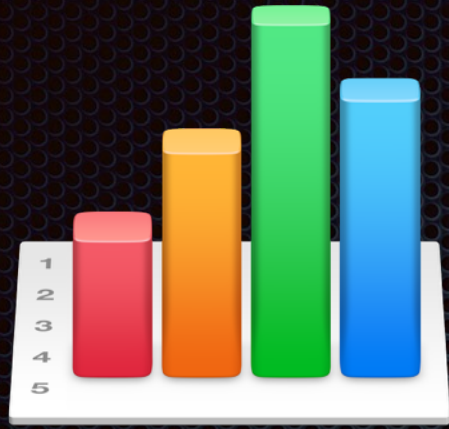


MunkiReport



MunkiAdmin

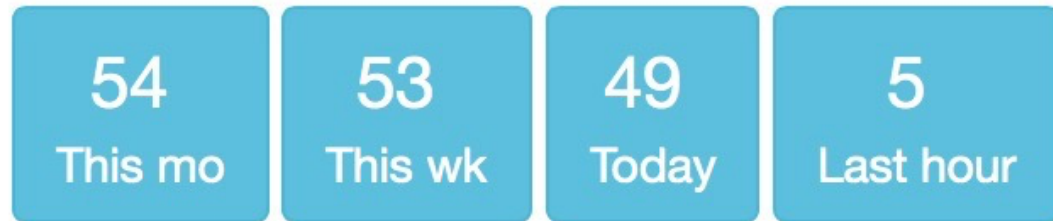
- ✦ Manage your Munki environs with a GUI!
- ✦ <https://github.com/hjuutilainen/munkiadmin>
- ✦ Has an AutoPKG recipe!



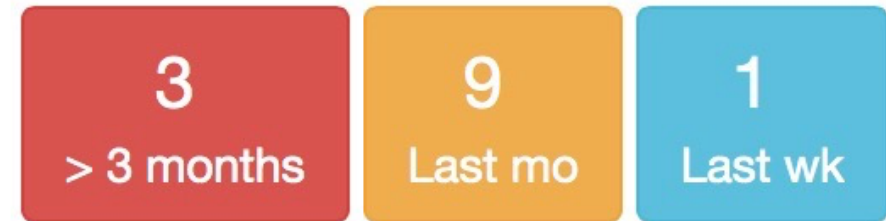
MunkiReport

- ✦ Keep track of your hardware fleet!
- ✦ <https://github.com/munkireport/munkireport-php>
- ✦ Simple Web-based solution, and you already have a web server!

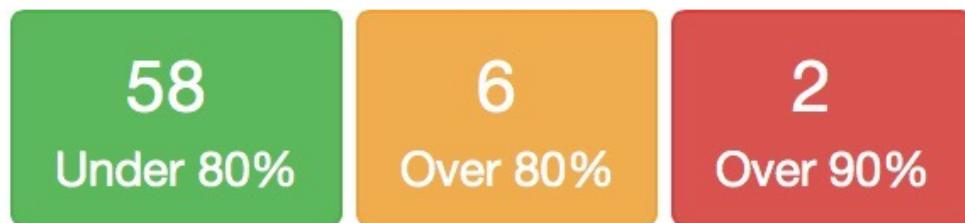
Active clients



Inactive clients



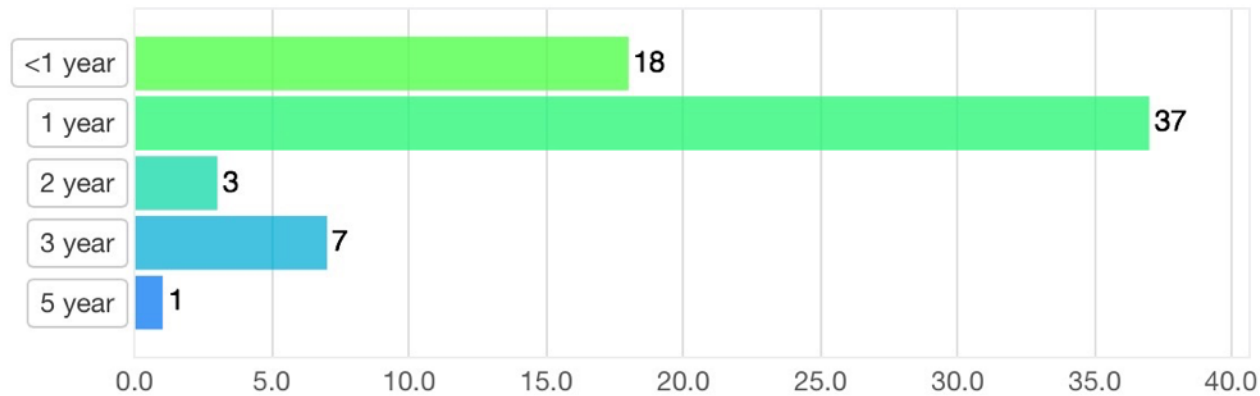
Disk status



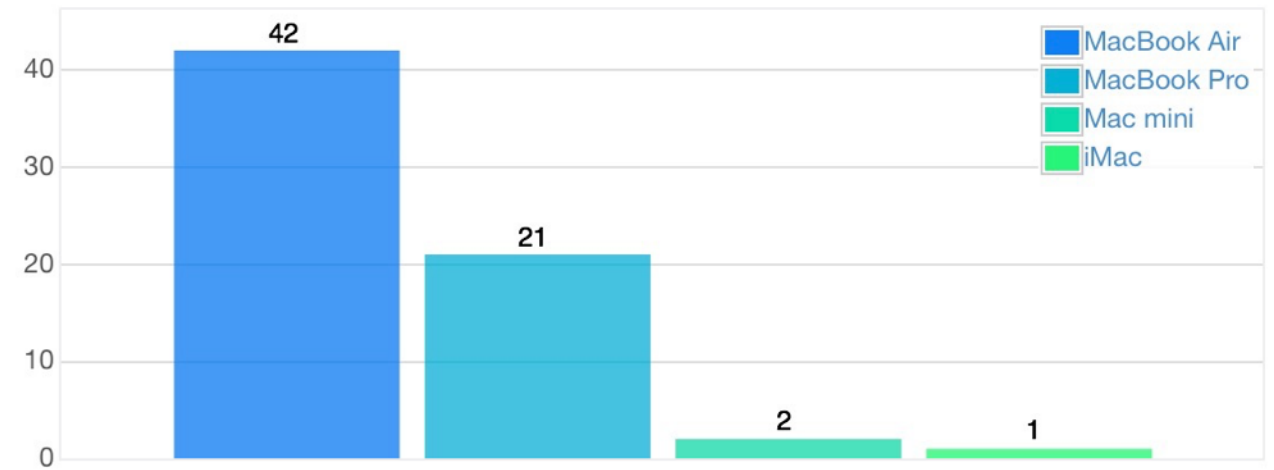
Installed Memory



Hardware Age



Hardware breakdown



Next Steps?

Deploy with Munki-in-a-Box



AutoPKGR



MunkiAdmin



AutoPKG



MunkiReport

<https://tbridge.github.io/munki-in-a-box/>

Requires OS X 10.8/Server 2 or later
Web Services Active, PHP Enabled