



LAZINESS IS THE MOTHER OF EFFICIENCY -OR-

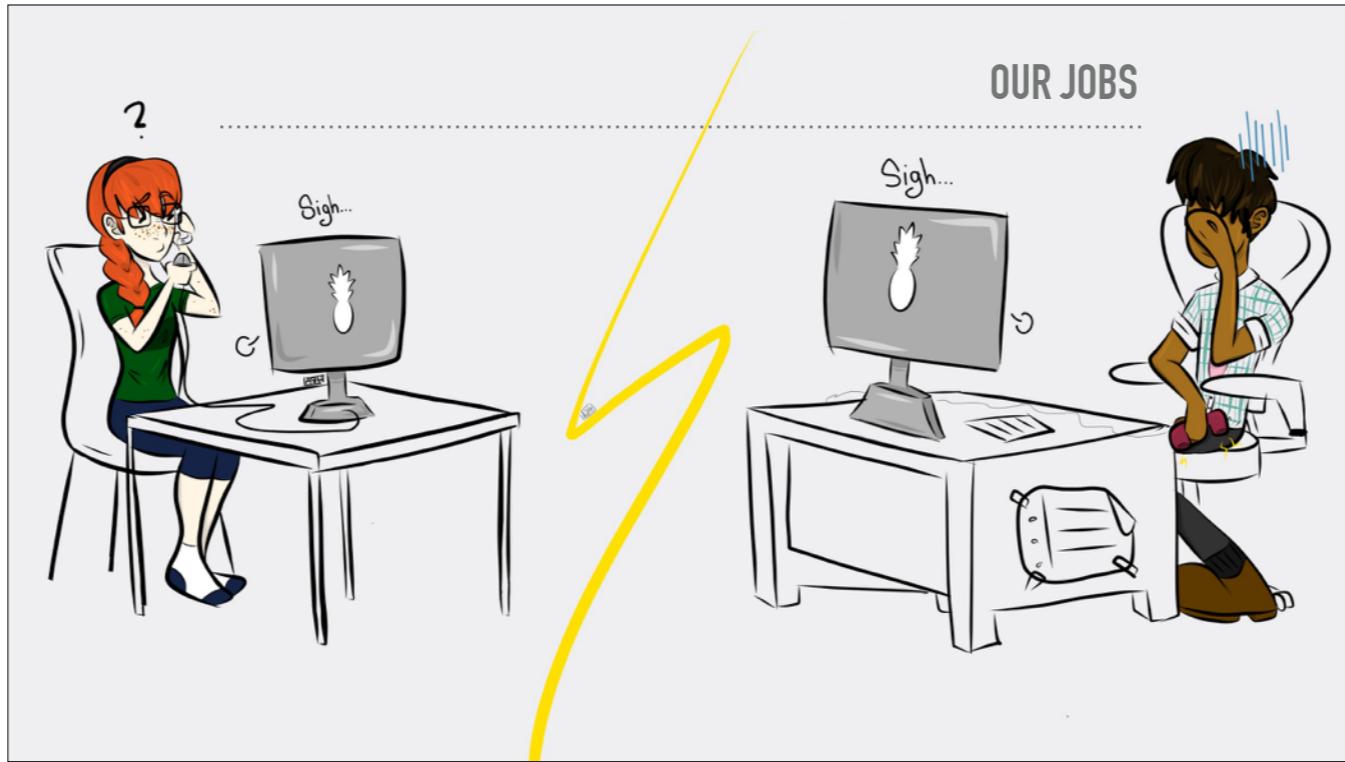
How we automated ourselves out of a job and into careers

My name is David Hester, and this is my colleague, Jeremy Baker. We're here today to talk about how automation is your friend, not foe, and how embracing it can provide you with opportunities to improve your current network and systems infrastructure, and perhaps even help propel your career.

Before I continue, there are a couple of quick things I want to mention: First, the examples of automation Jeremy is presenting here is directly tied to our LANrev infrastructure. It is certainly possible for you to consider them as inspirational examples for you to implement in your own infrastructure whatever that is (Casper, FileWave, Munki, BigFix). But we just wanted to be clear: we are LANrev admins.

Secondly, I need to say that we work as contractors at a Federal agency, which is supposed to remain nameless. That said, the automations Jeremy will show you here to day are real-world implementations we have designed on behalf of our clients. And perhaps more interestingly (to me, anyway) the issues and topics we will discuss are ones that our customers are facing or will be facing, and so Jeremy and I have spent a great deal of time thinking about how to address them. So, this isn't a theoretical presentation: it's based upon our experiences as contractors supporting our government OpDiv.

Anyway, let's begin.



Tell me if this reminds you of anything?

The fact of the matter is, a great deal of our time on our jobs is spent in reactive mode. We work hard addressing our customer's needs and fixing their immediate issues. But the result is often, we never have a moment to think, much less plan and develop efficiencies to improve our end-users' experiences.

In all honesty, if we are going to help our clients, while at the same time ensure our relevance as IT professionals, we have to find time to tame the beast, as it were...

TAMING THE BEAST



One of the first things, and most obvious low-hanging fruit is to take a closer look at your management systems and ask some very pointed questions about whether and to what degree these systems provide you with what you need.

MANAGEMENT SYSTEMS ARE NOT ENOUGH

- Imaging & Deployment
- Monitoring
- Reporting & Compliance
- Asset Management
- Secure Computing

- 1) Depending on how you define these systems, management systems may or may not include imaging and deployment tools, license management tools, or configuration management tools. And yet, these should all be considered the basics of what our jobs encompass, and so should be considered fundamental services to be offered by our systems
- 2) Monitoring is another responsibility - how well do our systems provide insight into successful deployment, configuration, on-going communication?
- 3) It seems ridiculous, but some of our best vendors do not seem to appreciate the value of providing simple, easy means by which to generate automated reports and notifications: on licensing, on compliance, on basic status questions
- 4) Asset management - this is not just a property issue. Many environments have no idea what the relationship is between equipment purchased and equipment managed
- 5) How do we ensure people's information will not be compromised, without getting in their way?

All of these areas typically represent areas of responsibility that our end users, and therefore also our bosses, assume we are supposed to take care of. And to that degree, it is what our management systems ought to be able to provide us.

AUTOMATION IS KEY

- Imaging
- Enrollment
- Encryption (FileVault 2)
- Third-party software management
- Maintaining Agent Health
- Asset insight
- Deep monitoring

The question is: Do they? If not, we need to do something about it to make our lives easier, to improve our end-user's experiences with our systems, and give ourselves a break from the monotony of running around like maniacs playing whack-a-mole. And even if they *do* provide these services, we probably could afford to spend additional energy on further automating them in order to ensure more consistent service.

How do we do that? Automation.

These are the key areas we believe improvement can be made through automation, areas we have focused upon in our LANrev environment:

Imaging - for faster provisioning

Enrollment - automatic entry into our LANrev environment

FV2 - so nothing leaves our hands unencrypted

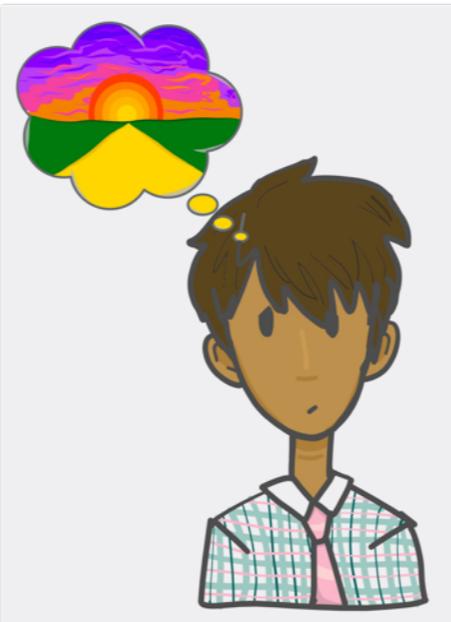
Third-party software management - so our Security Officers can sleep at night knowing Office, Flash and Java are up to date

Broken agents - because agents are the Achille's Heel of any management system

Asset insight - so property does not wander away

Deep monitoring - anticipating new trends in proactive, behavioral based responses to malware events

IMAGINING NEW FUTURES



But before I hand this over to Jeremy who will demonstrate how we've done these things, I want take the time to frame the entire presentation as something more than just another example of coding. He gets to demonstrate the hard skills of automation; I want to present the soft skills of managing the changes that automation will bring.

The point of our presentation today is not only to encourage you make the effort to put the final polish on your environment, but to get you to think about the impact automation can and will have upon your job.

Now, one way is to look at automation as a threat. And that may be an immediate reaction on your part, and quite possibly a true situation you face. But even if that is true, automation offers you a chance to think beyond the short-term focus of your particular job and to ponder additional opportunities for your career.

Are you where you ultimately want to be? The technology field is notorious for unimaginable future change, and it's often the case that job experience (much less life experience) will not protect you over the long run.

Just to drive home the point:

- 1) Do you actually have time to work beyond the break-fix paradigm and consider other responsibilities?
- 2) Do you have have time to begin thinking strategically - to develop technology roadmaps, to move beyond O&M and get into R&D?
- 3) But perhaps more personally and professionally, Ed's (from Google) presentation last year got me thinking: as system administration has changed and will continue to change over the years, our skill-sets must also continually develop. But this begs the question: is system administration all we want to do? And does system administration only entail administration of systems?

So, we have two goals for today's presentation: the first is for Jeremy to show you the tools we've developed to supplement our LANrev environment, and then for me to present suggestive topics for navigating the possible futures that such automation represents for your careers.

So, now I'm going to hand over the presentation to Jeremy now, who will show you all the benefits automation can bring to your environment.

CODE/RESOURCES



<https://github.com/jbaker10/PSU-2016>

Please feel free to grab the code for this from Github if you'd like to explore it or follow along.

AUTOMATION IS KEY

- Imaging
- Enrollment
- Encryption (FileVault 2)
- Third-party software management
- Maintaining Agent Health
- Asset insight
- Deep monitoring

Just to remind ourselves of what key areas we identified. We chose to cover these topics as they are ones that most directly affect techs. If you're not the same person who's running tickets and assisting customers directly, and you're not automating these tasks, there is likely a tech that doesn't like you. We strive in our environment to make the tasks that the techs have to interact with the most as simple and streamlined as possible, so that a brand new tech can start and really just jump in without much training.

The other big benefit I see to automation that David hasn't mentioned is that it removes the human-error factor. People can't forget to do things or do things incorrectly, if the computer does them for you.

IMAGING

- Apple tools and custom built tools:
 - Apple NetInstall with post-install pkg
 - LiteTouch - Misc. collection of tools that perform multiple functions
 - Onset.app - Custom application that allows technicians to input computer-specific info, such as Asset Tag, Location of computer

Custom built tools, these are the primary pieces

NetInstaller

LiteTouch is the overarching umbrella of several different pieces and tools
Onset.app - this is the app techs will interact with

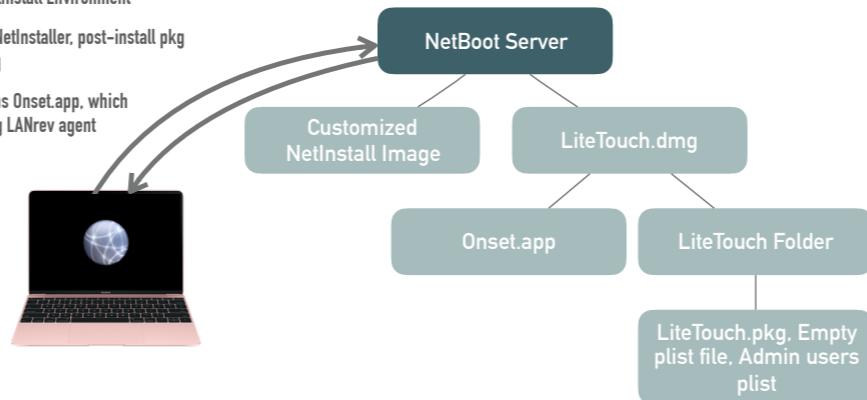
IMAGING



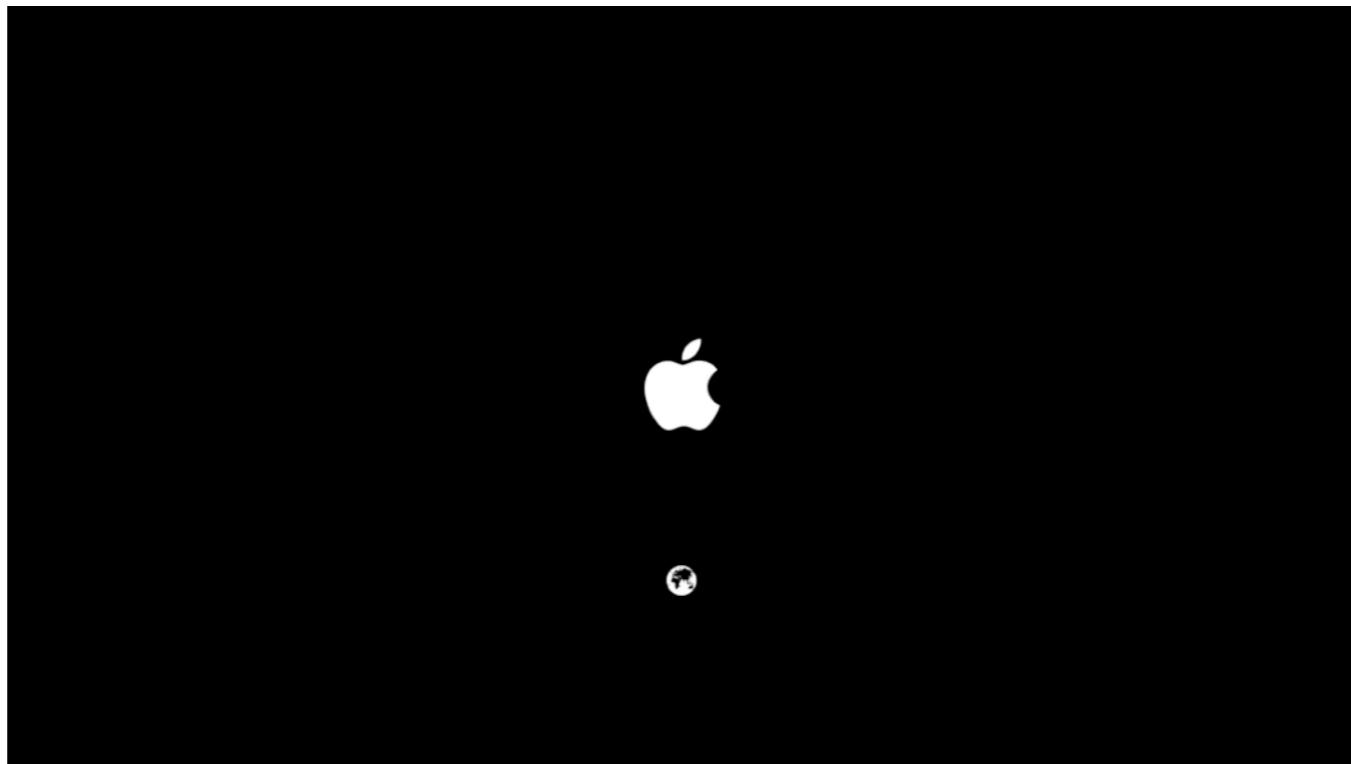
Add a diagram of the overall architecture

IMAGING

1. Client boots into NetInstall Environment
2. OS is deployed via NetInstaller, post-install pkg mounts LiteTouch.dmg
3. Post-install pkg runs Onset.app, which installs files, including LANrev agent
4. Machine Reboots



Add a diagram of the overall architecture



ENROLLMENT

- LoginLog - Application that displays log output during imaging (**Credit:** Per Olofsson, **Customized:** Tom Burgin)
- AMKickstart.sh - Script that handles kickstarting the LANrev agent and pulling all SD Packages (**Credit:** Per Olofsson)
- Onset.py - Python script that does the heavy lifting, including:
 - Creating User accounts
 - Installing the agent
 - Setting agent values
 - Runs AMKickstart.sh for SD check
 - Sends email notification when enrollment finishes

IMAGING

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NetBoot Server

Customized
NetInstall Image

LiteTouch.dmg

Onset.app

LiteTouch Folder

LiteTouch.pkg, Empty
plist file, Admin users
plist

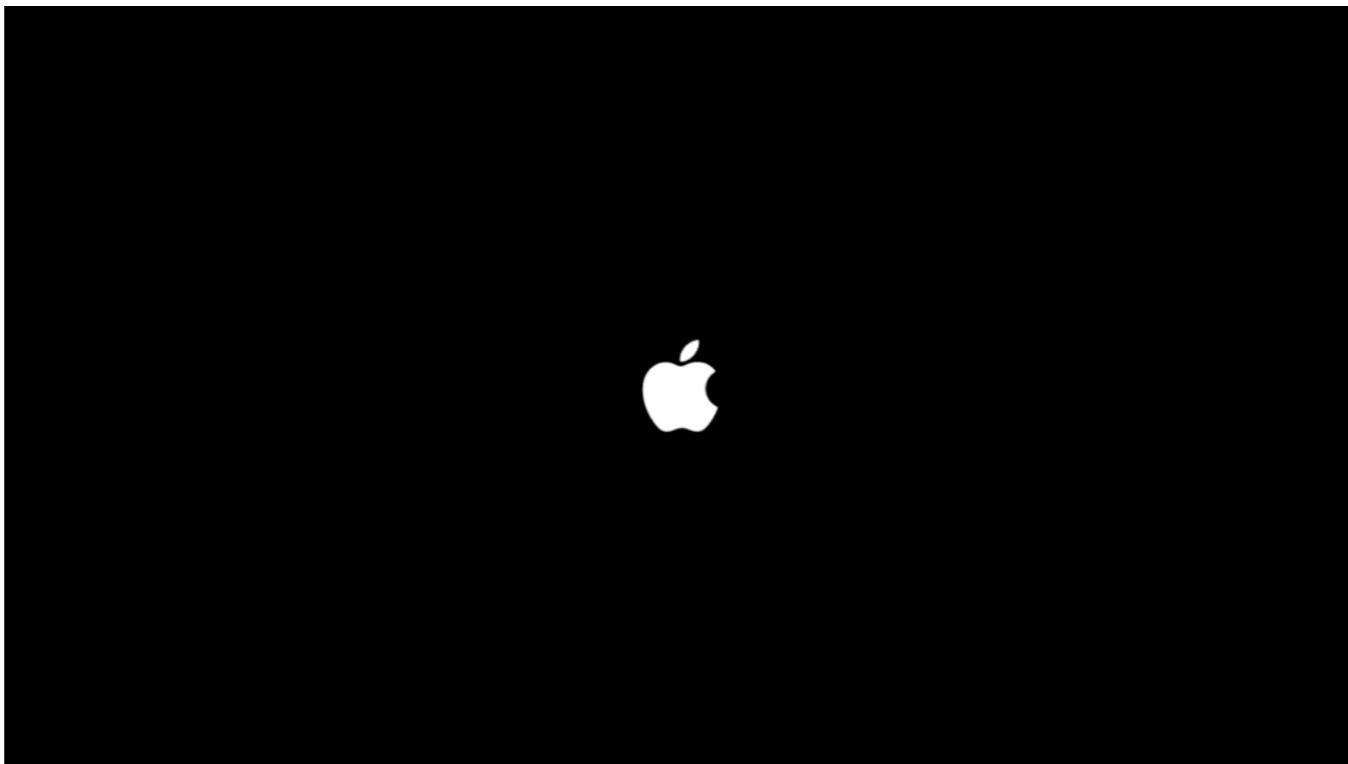
LANrev Server

5. Client boots into OS

6. Via LaunchDaemon, script is started that installs agent and kicks off heartbeat

7. Packages and configuration profiles are installed from LANrev Server

So here's where we left off. The client at this point has the OS on it, and the raw files.



This part of the process is typically about 20 minutes. The total imaging time can be around 40-45, but half of that is just laying down the Apple OS.

IMAGING



We now have a ready-to-deploy MacBook!

IMAGING

Computer Finished Imaging

Greetings:

The following computer was just imaged:

Time Imaged	Machine Name	Location	Lab/Group	FileVault Status
2016-06-01 15:55:42.941042	MH12345678MACDT	PSU	Lab 1	FileVault is On. FileVault master keychain appears to be installed.

IMAGING

There are great imaging options out there where you can still achieve a modular, automate-able workflow



We currently use this setup because it is imperative in our environment that the machine be encrypted before a customer ever touches it. This somewhat rules out a lot of other options, such as Crypt or a defer profile.

We are however looking at using a profile setup and have it as automated as possible at this point, to still achieve the above advantages and then also gives us the key escrow.

ENCRYPTION: FILEVAULT 2

- Current setup uses a custom package to enable FileVault utilizing an Institutional Recovery Key and plists with users to enable
- Advantages:
 - Allows us to enable multiple users automatically (which is useful when you have multiple IT admin accounts)
 - Ensures FileVault is enabled before handing the computer to a customer
- Disadvantages:
 - Does not currently allow for key escrow
 - Requires a tech to remember to add the actual customer to the FileVault enabled users list

We currently use this setup because it is imperative in our environment that the machine be encrypted before a customer ever touches it. This somewhat rules out a lot of other options, such as Crypt or a defer profile.

We are however looking at using a profile setup and have it as automated as possible at this point, to still achieve the above advantages and then also gives us the key escrow.

THIRD-PARTY SOFTWARE MANAGEMENT

➤ AUTOPKG

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

➤ AUTOPKGR

- <https://github.com/lindigroup/autopkgr>

➤ LANREVIMPORTER

- <https://github.com/jbaker10/LANrevImporter>

Third party patch management is huge. If you're not doing it, a user or a tech is probably not super happy, because people want things to just work. They don't want to have to click update on 50 different applications. And in some environments, like ours, they can't because we don't give admin rights to everyone. So then they just get a really obnoxious constant prompt.

So here's how we do this in our environment:

THIRD-PARTY SOFTWARE MANAGEMENT

- Why not use LANrev's 3rd-party patch management?
- Advantages:
 - Built-in to the console, which alleviates any learning curve
 - Will only apply to computers that need the update
- Disadvantages:
 - Limited to software available from Lumension
 - Does not always grab Delta installers
 - Does not have the community behind it that AutoPkg does
 - Not as customizable from an automation standpoint
(naming conventions, installation options, etc.)



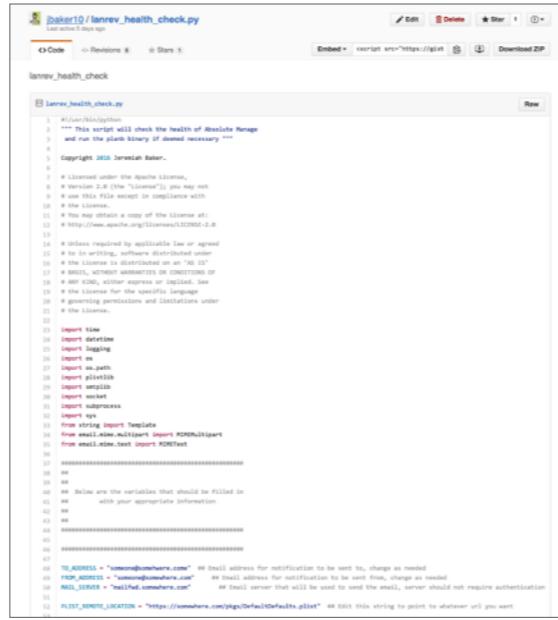
THIRD-PARTY SOFTWARE MANAGEMENT

- LANrev Promoter.py (Proof of Concept)
 - Goal is to provide an automated software promotion tool
 - Allows you to define exemptions (software that you never want automatically promoted)
 - Only promotes 3rd-party software, does not promote OS updates

DEMO TIME!

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MAINTAINING AGENT HEALTH

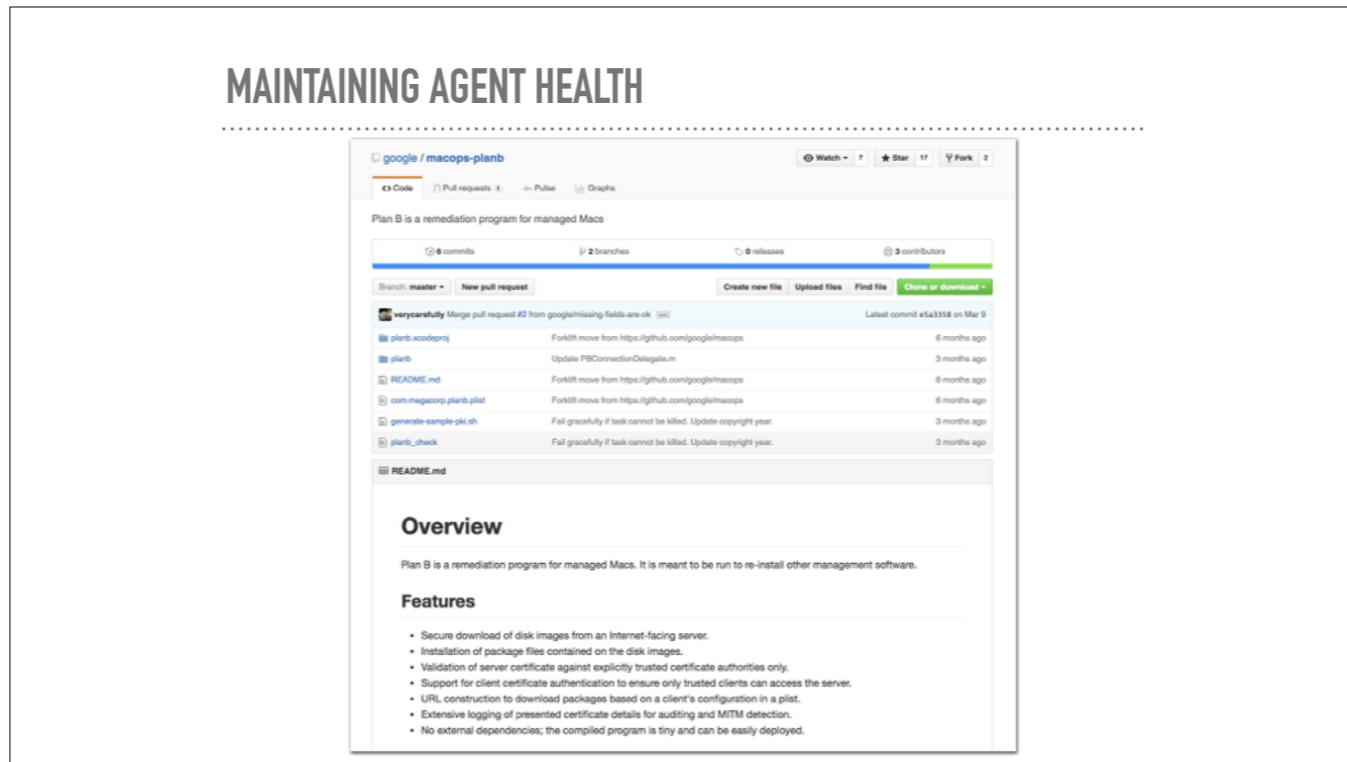


The screenshot shows a GitHub code editor interface for a file named 'lanrev_health_check.py'. The code is written in Python and performs health checks for Absolute Manage. It includes imports for time, datetime, logging, os, sys, socket, subprocess, string, Template, MIMEMultipart, and email. The script defines several variables: TO_ADDRESS, FROM_ADDRESS, MAIL_SERVER, and PLIST_REMOTE_LOCATION. It contains comments explaining its purpose and how to use it.

```
#!/usr/bin/python
# This script will check the health of Absolute Manage
# and run the plaid binary if deemed necessary
#
# Copyright 2010 Jarrett Baker.
#
# Licensed under the Apache License,
# Version 2.0 (the "License"); you may not
# use this file except in compliance with
# the License. You may obtain a copy of the License at
# http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed
# to in writing, software distributed under
# the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF
# ANY KIND, either express or implied. See
# the License for the specific language
# governing permissions and limitations under
# the License.
#
# import time
# import datetime
# import logging
# import os
# import sys
# import socket
# import subprocess
# import string
# import Template
# from email.mime.multipart import MIMEMultipart
# from email.mime.text import MIMEText
#
# *****
#
# Below are the variables that should be filled in
# with your appropriate information
#
# *****
#
# TO_ADDRESS = "someon@somewhere.com" # Email address for notification to be sent to, change as needed
# FROM_ADDRESS = "someon@somewhere.com" # Email address for notification to be sent from, change as needed
# MAIL_SERVER = "mail.somewhere.com" # Email server that will be used to send the email, server should not require authentication
# PLIST_REMOTE_LOCATION = "https://somewhere.com/plists/Default.plist" # Edit this string to point to whatever url you want
#
```

Any agent based system has the achilles heel of being an agent-based system. Which means that should something in the agent not work, theres really no way to fix it. So we looked at ways we could mitigate this including Puppet, Chef, and others, but realized we didn't need something very complex. We just wanted to make sure the agent "worked" and that a few key values were set.

- PlanB
 - Tool written by the MacOps folks at Google
 - Used to re-install software when the binary is called
- lanrev_health_check.py
 - Script written to check several parts of the agent settings and "health"
 - Check includes:
 - Making sure the agent .app and binary are present on the machine
 - Making sure proper default settings are correct (CheckAppleSoftwarePatches, correct LM and SD server's are set)



All that was good and well, and now we have a way to know if the agent is broken or not, but how do we go about fixing it? Well, `lanrev_health_check` can fix a few things itself, like the preference keys, but if a full agent reinstallation is necessary, we're stuck.

- PlanB
 - Tool written by the MacOps folks at Google
 - Used to re-install software when the binary is called
- `lanrev_health_check.py`
 - Script written to check several parts of the agent settings and "health"
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MAINTAINING AGENT HEALTH

PlanB was triggered on the following
Client: **MH01887871MACLT**

This occurred on **2016-06-23**

The error that caused this was:

2016-06-23 12:05:37.844 [1941:3503] <2> -
CobraClientCheckForMissingOSPatchTask::CheckForSoftwarePatches: Unknown error
occurred while checking for Apple software updates: {-29289}.

- PlanB
 - Tool written by the MacOps folks at Google
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ASSET INSIGHT

The screenshot shows a configuration dialog for 'ODBC Export' within the 'Asset Insight' interface. The dialog has several tabs at the top: General, Client Info Titles, License Monitoring, ODBC Export (which is selected), Active Directory, MDM, Notification, FOG, and NAC. The 'ODBC Export' tab contains the following fields:

- Enable ODBC export:
- Database type: MySQL (selected from a dropdown menu)
- Data source name (DSN): MySQL
- Database server address: lanrevdb.macadmin
- Database name: lanrevdb
- Database username: macadmin
- Database password: (redacted)
- Database password verification: (redacted)
- Export interval: 180 minutes
- Send e-mail when ODBC export fails:
- Recipients: macadmin@macadmin.psu

At the bottom of the dialog, there are two lines of text: 'Server unique identifier: 321988E2-C06C-4352-97EC-D2D922998035' and 'Server certificate fingerprint: B2:AF:06:12:D2:C6:51:48:55:DE:5D:71:C7:B2:5A:7C:0E:B1:41:89'. To the right of the fingerprint, there is a 'Save Certificate...' button.

Asset insight is pretty crucial to many environments.

ASSET INSIGHT

- [macReporter.py](#)
 - Custom reporting script written in Python
 - Uses combined Oracle DB (combines a MS SQL property database with the MySQL LANrev database output)
 - Can generate reports for admins, send customers notifications on missing computers, or computers that have not checked in recently

Lot of different possibilities on what you can do here, we have just chosen to use Python

ASSET INSIGHT

Mac Offline for 90+ Days

Greetings:

The computer listed below has not come online in over 90 days. **You are listed in the property database as the Accountable User.** In the next 7 calendar days, please take the time to power on your Mac and connect it to the internet. (You are not required to connect to VPN.)

If you do not, the equipment will be reported as missing/stolen.

If you are not the current user of this Mac, contact the Property Team to have the property record updated with the correct information.

If you do not have access to this Mac (because you are offsite, or the computer is not accessible), please notify us and we will work with you to locate it.

Having trouble?

Contact the Help Desk at 301-GET-HELP for assistance with any issues or problems.

Thank you for your prompt attention to this matter!

Property and Security Offices

SERIAL_NUMBER	MANUFACTURER	MODEL	ASSET_IDENTIFIER	ACCOUNTABLE_USER	PERSON_ORGANIZATION	PERSON_ORGANIZATION
C0123456789	APPLE COMPUTER INC (DBA APPLE)	A1347	012345678	BAKER, JEREMIAH R	PSU LAB1	PSU1097

ASSET INSIGHT

Unmanaged Computers

Greetings:

There are [35] computers listed below that are not enrolled in LANrev.

SERIAL NUMBER	MANUFACTURER	MODEL	ASSET IDENTIFIER	ACCOUNTABLE USER	PERSON ORGANIZATION	PERSON ORGANIZATION CODE	CURRENT ORG
C0123456789	APPLE COMPUTER INC (DBA APPLE)	A1103	12345678	Person 1	PSU Lab1	PSU1097	OFFICE OF PSU
C0123456789	APPLE COMPUTER INC (DBA APPLE)	A1289	12345678	Person 2	PSU Lab3	PSU1097	OFFICE OF PSU
C0123456789	APPLE COMPUTER INC (DBA APPLE)	A1370	12345678	Person 3	PSU Lab70	PSU1097	OFFICE OF PSU
C0123456789	APPLE COMPUTER INC (DBA APPLE)	A1225	12345678	Person 4	PSU Lab5	PSU1097	OFFICE OF PSU
C0123456789	APPLE COMPUTER INC (DBA APPLE)	A1286	12345678	Person 5	PSU Lab40	PSU1097	OFFICE OF PSU
C0123456789	APPLE COMPUTER INC (DBA APPLE)	A1311	12345678	Person 6	PSU Lab3	PSU1097	OFFICE OF PSU
C0123456789	APPLE COMPUTER INC (DBA APPLE)	A1465	12345678	Person 7	PSU Lab2	PSU1097	OFFICE OF PSU

DEEP MONITORING



➤ osquery

<https://osquery.io>



➤ santa

<https://github.com/google/santa>



➤ Zentral

<https://github.com/zentralopensource/zentral>

➤ Doorman

<https://github.com/mwielgoszewski/doorman>

Image Sources: <https://osquery.io>; <https://github.com/google/santa>; <https://github.com/zentralopensource/zentral>

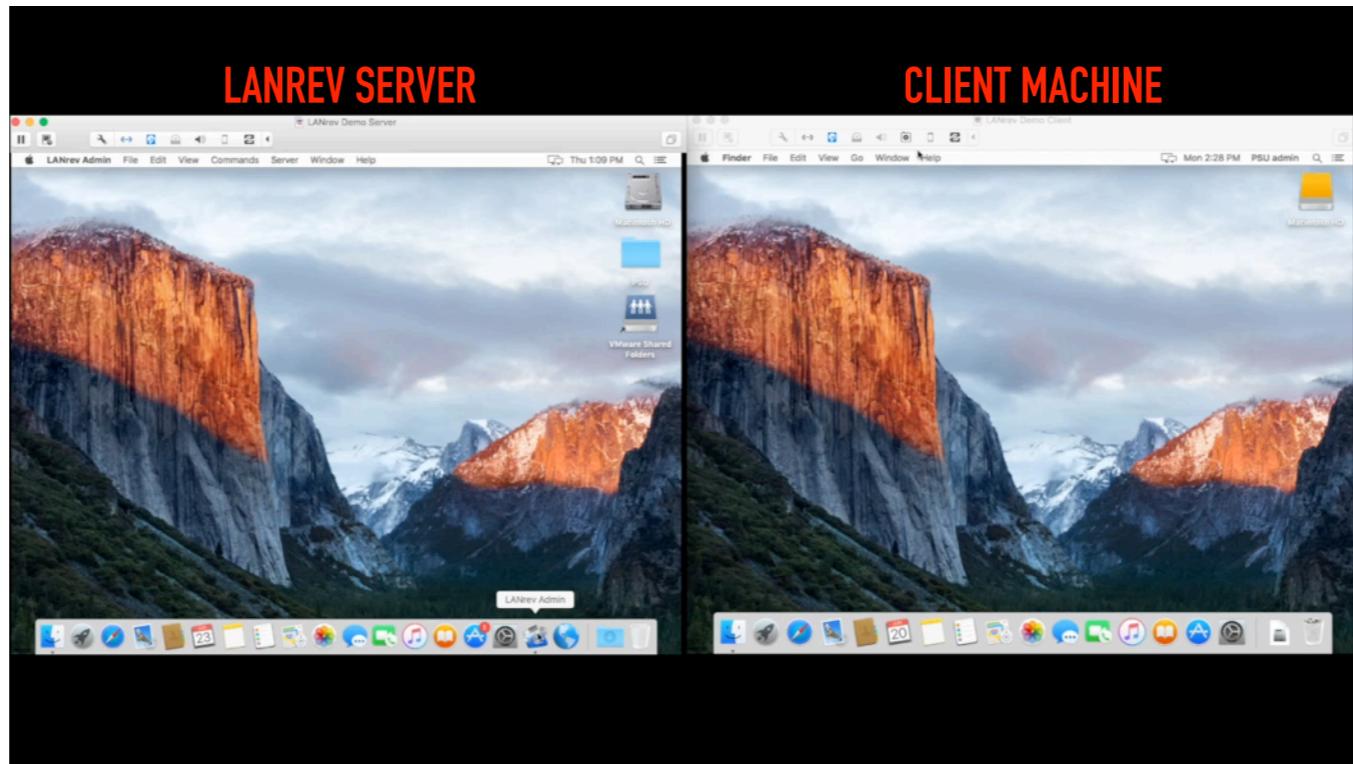
These are some of the tools that extend past what LANrev can do, but could be made to work with LANrev



OSQUERY AND LANREV

- Utilize osquery's "deeper" monitoring than capable in LANrev (reporting on installed Chrome extensions)
- Utilize a LANrev custom information item to get the osquery query results into LANrev
- Utilize LANrev's profile management to enforce policies based on the results of our osquery custom info item
- Utilize LANrev's smart groups to assign the profile

Going to do a demo of chrome_extensions here with osquery, using smart groups and custom info items



HOW COULD WE EXPAND?

- Some of the things that we want down the line from LANrev:
- Better monitoring and reporting built-in
- Better API's to allow custom tools to integrate better
- Automatic SD group assignment upon package import

Some of the things that we want down the line from LANrev:

Better monitoring and reporting built-in

Better API's to allow custom tools to integrate better

Automatic group assignment

IMPLICATIONS FOR THE FUTURE

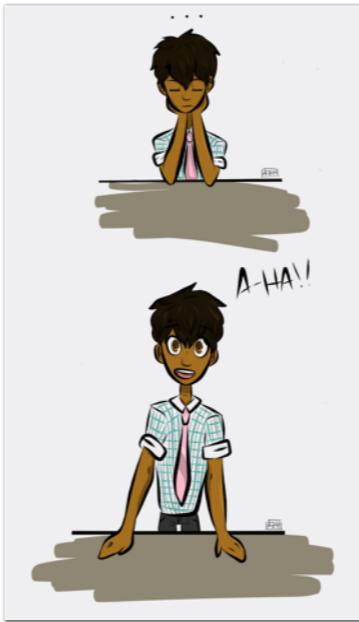


www.altpibroch.com

I was jealous of the avatar that my daughter made for Jeremy, so I asked her to make one for me.
This is what she came up with. So, I figured: why not? Here's the link to my piping site.

PURPOSE OF AUTOMATION

Why?



So now we've given you some ideas about the places where automation can be deployed, and examples of how we have deployed them.

- One-button and 3 fields, and a computer is provisioned and enrolled
- FV automatically enabled for all our admin accounts, and we are notified its status
- 3rd party software is updated into LANrev without our touching it
- And if you help with developing the code, Jeremy's LANrev Promoter software could be automatically assigned to test and production groups without additional intervention
- Assets are tracked, accountable users and the managers notified of wayward property, and our help desk and security team is relieved of mundane and time-consuming discovery and outreach

What did we do? Why did we do this? We just automated ourselves out of a great deal of day-to-day responsibility at our jobs?

Why would you want to do this?

The answer is simple: To create an opportunity of you to have the space and time enough to think, to plan, and to develop your career by improving your infrastructure and preparing for the future.

ARCHITECTURAL DESIGN & THE CHALLENGES OF THE FUTURE

- Data bloom
- Data ubiquity and mobility
- Cloud
- Data exfiltration
- IoT and security

There are a number of important issues that you need to begin thinking about, if you haven't already. Most of you are in higher education, so I'm sure some of these may be irrelevant, or I may overlook something you see coming down the pike in your environment. Maybe these issues are well known and banal. But since we created automated tools to relieve ourselves of the day-to-day inanity of user support, we have had a chance to be preparing for them for our clients. (This is something we wouldn't have had an opportunity to do otherwise.)

Among the more pressing subjects that our particular clients are facing include:

Data bloom

➤ Where do we find the room? We adopted a model of data retention that causes our users to expect information to remain available forever, until *they* decide what they are going to do with it. And while digitization of information is certainly a *qualitative* transformation of data, it is *also* a very profoundly QUANTITATIVE transformation - prior to 1985, all human records could have been stored on a few TB. Today, we create dozens of PB of information every day. Where are we going to put it all?

Data ubiquity and mobility

➤ Data do not want to be locked into a single system. Data want to be accessed from everywhere at any time. Do you have the infrastructure set up to do this, securely? Mobile computing has revolutionized and transformed our jobs, just as personal computing did to mainframe administrators 30 years ago. It's clear that users want to get work done on any device they have at the moment, at any time they want to work, wherever they are. Are you ready?

Cloud

➤ Sure you are: cloud is the answer. We all know this. But do you even know what the term means? Does it mean Platform-aaS? Software-aaS? Infrastructure-aaS? Do we really want to rent a rack or a VM from a vendor? with Terms & Conditions (which no one ever reads)? with no ultimate accountability to you, but to shareholders? Someone somewhere at your job is going to ask about cloud computing. Do you know how to answer them?

Data exfiltration

➤ Data leaks. It is one of Hester's Two Fundamental Laws of Digital Data - they want to replicate (which means they are eternal) and they want to scatter. If this is true, and given the demand for data ubiquity, why do we even bother trying to prop up the boundary concept of data security? It's silly and naive. We need a brand new approach to managing data assurance and security, maybe a paradigm not of data control, but of data flow oversight. Have you started looking at any alternatives and considered what they will mean for your infrastructure?

IoT and security

➤ Industry is not concerned with issues of data security; it, in fact, relies on ease of access to data - Google, in particular, scoops up at least 27 petabytes a day to sell to data brokers and advertisers. But this means that the protocols and architecture on which the "things" rely upon to run are by design insecure and can provide a means by which data can be stolen. And worse (think IMDs as targets for ransomware). And there is no capital or regulatory incentive to change this. Are you ready to support thousands of wide-open doors into your infrastructure?

These are just some of the technical subjects for thought, ones that Jeremiah and I are wrestling with currently. But because we have automated ourselves out of our jobs, we now have the chance to consider them, strategically plan for them, inform our managers and help them anticipate their impact upon our clients infrastructure.

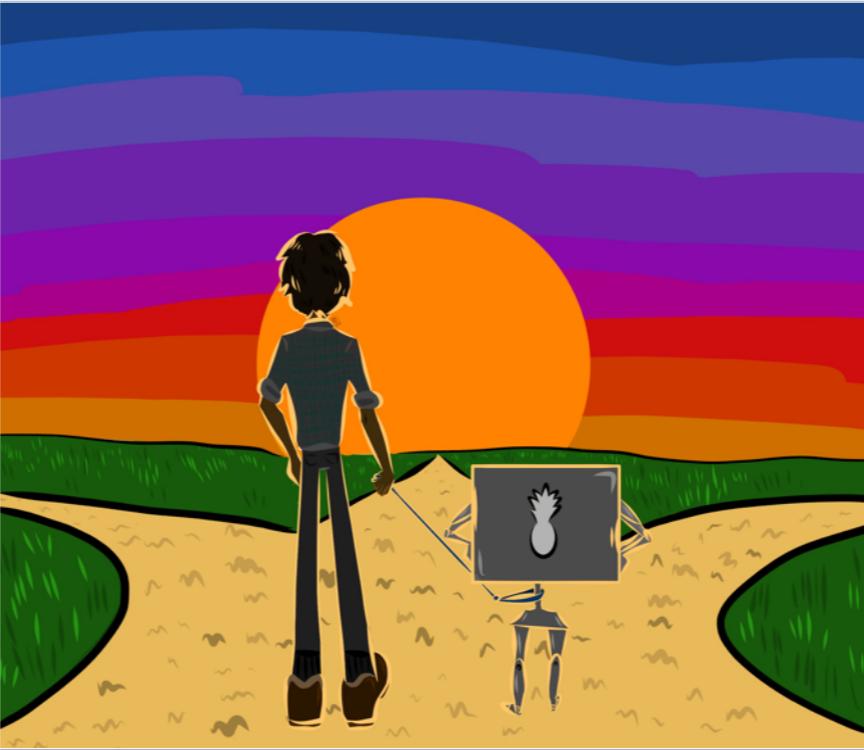
CAREER OPTIONS



Automating ourselves to this point may represent challenge to our position, but it can also represent an opportunity for personal career growth.

CAREER OPTIONS

- Management
- Technical Design
- Security
- Sales
- Software Development
- Analytics



So, finally I want to leave you with a few ideas regarding the options that you might want to consider for your future career. These are more or less random and incomplete thoughts, but they might get you started down anyone of a number of paths that are opening upon in front of you:

Management

- You tend to lose technical skills, but you gain the opportunity to shape a team and infrastructure, making lasting decisions to improve the network for your users.

Technical Design

- As much as I sense the term 'SME' is an approbation among us, the fact of the matter is that developing technical expertise allows you to become part of a team that can provide effective strategic plans and offers you to chance to participate in the implementation of those plans
- R & D, assessing imminent technologies (Docker, Hadoop)

Security

- We built our systems upon an infrastructure of trust. Now large scale governmental and criminal organizations have created 24/7 operations to exploit that trust.
- Rethinking security is a career with great possibilities for you in the future.

Sales

- Don't rule it out. Being an SE for a successful vendor has its rewards.

Software Development

- Coding is king, right? Since you've been doing it, why not just do it full time?

Analytics

- So the transformation of data into information. It doesn't have to mean you become a mathematician and write algorithms. But it could mean something as immediately straight-forward as contributing to data governance. Many of our clients want apparently very difficult answers to very simple questions: how much data do we have? where is it all? how old it is and how frequently is it accessed? how much more storage do we need to buy? That's an interesting career opportunity for some of you.

THANK YOU!

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Anyway, these are just some thoughts I had because we are now at a point, thanks to automation, where we can think about our careers. Hopefully, you can too, and start to consider what your next career move might be.

If you want to get ahold of us, here is our information.

And we are always happy to answer any questions you have.

FEEDBACK!

PLEASE LET US KNOW WHAT YOU THOUGHT AND WHAT WE
COULD DO BETTER!