

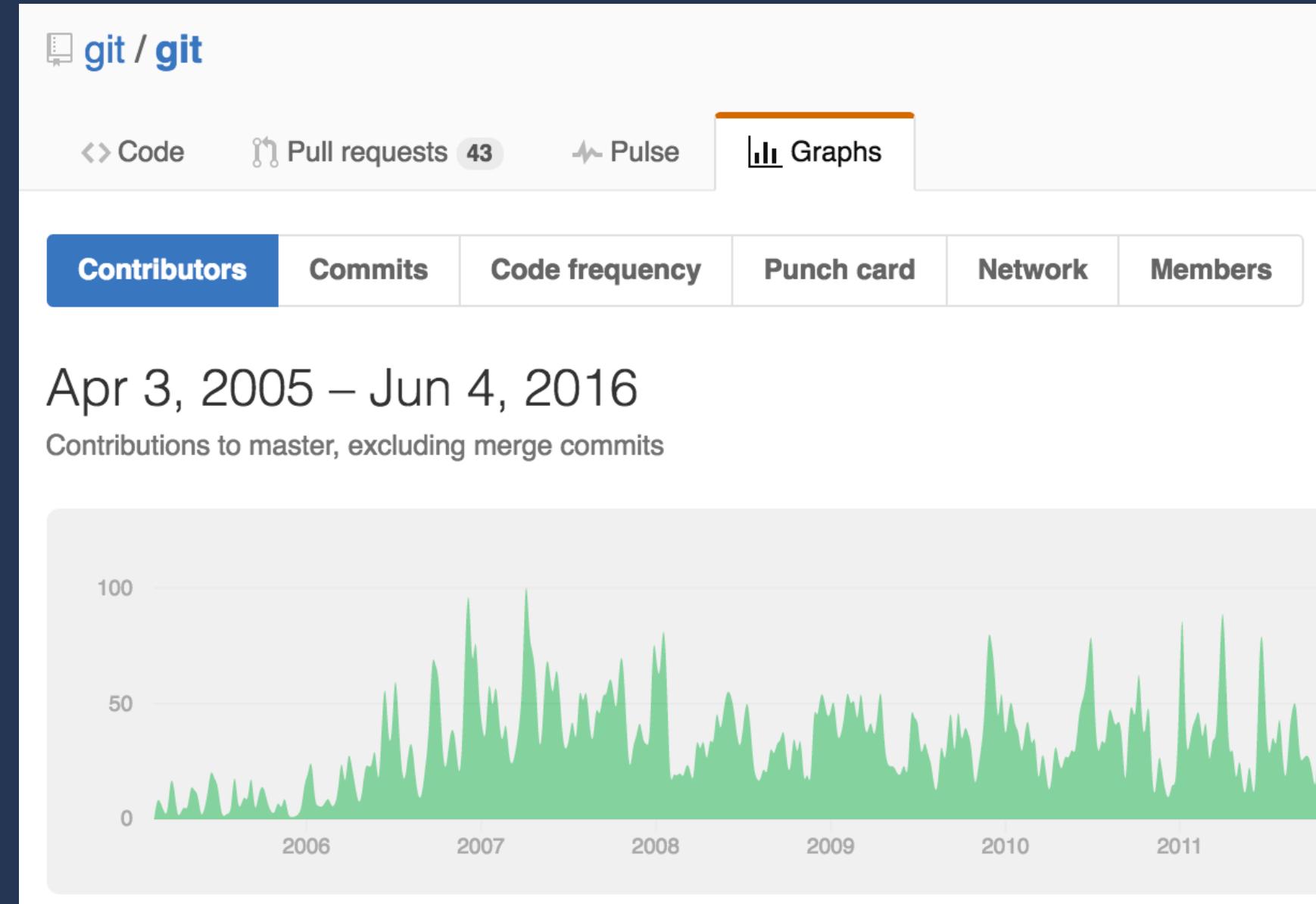
Contributing to Open Source

- Communication
- Collaboration
- Sharing

<https://github.com/chilcote/macdevops2016>

@chilcote

Git != Open Source



<preamble>

The Halcyon Days

Vendors release source code along with operating systems.

AT&T distributes UNIX as free software.¹

¹ History of free and open-source software [wikipedia](#)

The Dark Days

Vendors start charging for software licenses.

Computer hobbyists are now seen as "thieves" and "parasites."²

Version Control Systems such as CVS start to take hold.

² Open Letter to Hobbyists [wikipedia](#)

The Salad Days

The rise of BBSes and online sharing of software.

The '90s brings forth several open source OSes.

Linus Torvalds develops Git for the development of Linux.³

³ Git [wikipedia](#)



**what about the rest
of us?**

We'll take that as
feedback.

– **Every Apple manager at every WWDC ever.**

Open Source at Apple

<http://opensource.apple.com>

<https://github.com/aosm>

WebKit

Swift



Swift



NetBoot 2.0: Boot Server Discovery Protocol (BSDP)

Author:

Dieter Siegmund, dieter@apple.com

Date:

Dec 18, 2003

Version:

1.0.7

Thanks?

1 Introduction

A NetBoot 2.0 client uses the Boot Server Discovery Protocol (BSDP) to dynamically acquire resources that enable it to boot a suitable operating system. The client uses DHCP to acquire its IP address and BSDP to acquire boot image resources. The protocols are initiated by the client at boot time.

This document describes the protocol and how it interoperates with DHCP. It also describes specifics of the packet encodings and the client and server logic.

1.1 Version History

Version	Date	Who	Modifications
0.1	8/12/1999	Dieter Siegmund	Initial version with basic protocol description.
1.0.2	10/25/1999	Dieter Siegmund	Specified packet/option encoding; detailed client logic and behavior.
1.0.2b	11/3/1999	Dieter Siegmund	Revised based on review input.

 **Anthony Reimer**
@AnthonyReimer

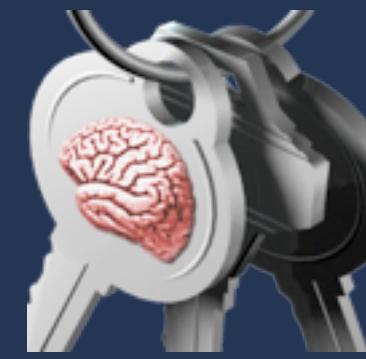
TIL there are over 4000 AutoPkg recipes,
including 1156 .download—kudos to the
#MacAdmin community, esp. [@gregneagle](#),
[@tvsutton](#) & [@MagerValp](#)

RETWEETS LIKES

4 4



12:18 PM - 5 Jun 2016





 **Joseph Chilcote**
@chilcote

Thx to InstaDMG I've heard the startup song for Leopard a gazzillion times. Used Shazam to figure out who that is. I liked Royksopp better

3:48 PM - 7 Aug 2008

◀ ▶ ❤ ⌂ ⋮

MagerValp / AutoDMG

Create deployable system images from OS X installer

442 commits · 3 branches · 21 releases · 3 contributors

Branch: master · New pull request · Find file · Clone or download

MagerValp Issue #149: Use absolute path for cli packages.

Latest commit 84721ef on Apr 1 · 8 issues · 0 pull requests · Wiki · Pulse · Graphs

AutoDMG.xcodeproj · More exception handling to mitigate issue #135. · 6 months ago
AutoDMG · Issue #149: Use absolute path for cli packages. · 2 months ago
Distributions · Add distribution script. · 3 years ago
Media · Updated installer placeholder icon. · 2 years ago
.gitignore · Updated .gitignore. · 3 years ago
LatestVersion.plist · Updated LatestVersion.plist. · 2 years ago
README.os · Add distribution script. · 2 years ago

munki / munki

Managed software installation for OS X — <https://www.munki.org/munki/>

2,281 commits · 6 branches · 29 releases · 44 contributors

Branch: master · New pull request · Find file · Clone or download

gregneagle munkiimport: When encoding text to be printed, use UTF-8 explicitly in...

Latest commit ed70d8b 4 days ago · 47 issues · 4 pull requests · Wiki · Pulse · Graphs

Preferences · Make the markdown look better · 7 months ago
code · munkiimport: When encoding text to be printed, use UTF-8 explicitly in... · 4 days ago
launchd · Add additional paths to com.googlecode.munki.MunkiStatus's KeepAlive ... · 2 years ago
tests/code/client/munkilib · Update copyright info on files; remove abandoned tools from code/tools · 3 months ago
.gitignore · Move both apps into an apps subdirectory so we can auto-increment app... · 2 years ago
LICENSE.md · Replace http://www.apache.org/licenses/LICENSE-2.0 with https://www.a... · 7 months ago
README.md · Update README.md · 2 months ago

grahamgilbert / imagr

<http://imagr.io>

47 commits · 1 branch · 16 releases · 19 contributors

Branch: master · New pull request · Find file · Clone or download

grahamgilbert Merge pull request #149 from clburlison/github-templates

Latest commit 1df6abd a day ago · 14 issues · 0 pull requests · Wiki · Pulse · Graphs

.github · Update ISSUE_TEMPLATE.md · 3 days ago
Imagr.xcodeproj · Add background window. · 24 days ago
Imagr · Bump version · 5 days ago
img · update wiki images for NBICreator · 15 days ago
.gitignore · Ignore rc.netboot · 10 days ago
LICENSE · Resolves issue #20 · a year ago
Metadata · Merge pull request #147 from bruienne/features/bmc_parallel · 10 days ago

bruienne / bsdpy

An Apple NetBoot server implemented in Python

101 commits · 6 branches · 0 releases · 3 contributors

Branch: master · New pull request · Find file · Clone or download

bruienne Create README.md

Latest commit 8b79351 on Apr 20 · 11 issues · 1 pull requests · Wiki · Pulse · Graphs

docker · Switch Dockerfile back to master branch · 2 years ago
COPYING · Added COPYING file and updated README with copyright and licensing st... · 3 years ago
PURPOSE.md · Rename README.md to PURPOSE.md · 2 months ago
README.md · Create README.md · 2 months ago
bsdpserver.py · Fix last incorrect indentation occurrence in ack(). · a year ago
README.md

The screenshot shows the AFP548 website. At the top, there's a navigation bar with links like 'AFP548 Wiki', 'Forums', 'iOS', 'Security', etc. Below the header, a main content area features a post titled 'Ep. 4 – MacAdmin Easter Egg'. The post includes a small image, some text, and a 'READ MORE >' link. To the right, there's a sidebar with sections for 'The AFP548 Podcast' and 'Site News'.

The screenshot shows the krypted.com website. The header includes a search bar and navigation links for 'Guides', 'Commands', 'Reference', 'Whoami', 'Apple Community', and 'Minneapolis'. A main article is displayed with the title 'App to Sync DynamoDB Databases to an iOS Device'. Below the title, there's a brief description and a screenshot of a software interface. There's also a 'Share:' button at the bottom.

The screenshot shows the derflounder.wordpress.com website. The header has 'About' and 'Contact' links. The main content area features a post about 'Diagnosing and fixing code signing issues for applications installed by installer packages'. It includes a calendar for June 2016, a section for 'Recent Comments', and a small screenshot of a Mac OS X desktop.

The screenshot shows a GitHub Gist page for user 'pudquick'. The profile picture is a cartoon frog. The page lists two gists: 'spotlight_exclusions.py' and 'Get-SSLThumbprint.ps1'. The 'spotlight_exclusions.py' gist contains the following code:

```

1 # Only tested on OSX 10.11.5
2
3 import objc
4 from Foundation import NSBundle
5 Metadata_bundle = NSBundle.bundleWithIdentifier_('com.apple.Metadata')
6
7 functions = [
8     ('_MDCopyExclusionList', '@'),
9     ('_MDSetExclusion', '@I'),
10    ]

```

The 'Get-SSLThumbprint.ps1' gist contains the following PowerShell function:

```

1 Function Get-SSLThumbprint {

```

</preamble>

Communication

- Open a Github Issue⁵
 - Check for existing issues
 - Be clear and concise
 - Provide repeatable steps
 - Include system details

⁵ Contributing to Open Source [github](#)

YAML support requires external Python module #5

 Closed

MagerValp opened this issue on Nov 13, 2014 · 2 comments



MagerValp commented on Nov 13, 2014



YAML is a nice format but sadly there is no support for it in Cocoa or the Python standard library. Is YAML a requirement for your integration needs or would you consider a patch replacing it with something supported by the built-in modules (e.g. plist/json/ini)?



chilcote commented on Nov 13, 2014

Owner



I agree. I just wanted to play with yaml to see what it was all about. I'll switch that out.



chilcote commented on Nov 13, 2014

Owner



Fixed



chilcote closed this on Nov 13, 2014

collaboration

- Open a Github Pull Request.⁶
 - Clearly state the problem being solved
 - Test your additions against the project's assumptions
 - Contribute in the style of the project
 - Include documentation

⁶ Using pull requests [github](#)

Imagr 1.1.1

01 Jun 2016

I'm pleased to announce that [Imagr 1.1.1 is out!](#) Why am I so happy? This is the first release that's made up nearly all of community contributions. So many thanks to everyone who has helped out with code, documentation and filing bugs.

And if you're going to be at [MacDevOps:YVR](#) in a few weeks, we'll be taking a look at how to use some of these new features.

Find out more about this [release over on GitHub](#).

0 Comments

graham gilbert

1 Login ▾

updated step_clone_vmx.go to work with vmx files using sata

[Browse files](#)

master (#1604) v0.10.1 ... v0.7.2

chilcote committed on Oct 20, 2014

1 parent 6ca0a2b commit d46187da4bb074e96c6795690c4fd24fb62d3b18

Showing 1 changed file with 8 additions and 2 deletions.

Unified Split

10 builder/vmware/vmx/step_clone_vmx.go

[View](#)

```
@@ -37,8 +37,14 @@ func (s *StepCloneVMX) Run(state multistep.StateBag) multistep.StepAction {
    return multistep.ActionHalt
}
- diskName, ok := vmxData["scsi0:0.filename"]
- if !ok {
+ var diskName string
+ _, scsi := vmxData["scsi0:0.filename"]
+ _, sata := vmxData["sata0:0.filename"]
+ if scsi {
+     diskName = vmxData["scsi0:0.filename"]
+ } else if sata {
+     diskName = vmxData["sata0:0.filename"]
+ } else {
+     err := fmt.Errorf("Root disk filename could not be
found!")
+     state.Put("error", err)
+     return multistep.ActionHalt
}
```

sharing

- Create a Github Repo⁷
 - Trade JAMF EAs
 - Submit AutoPKG recipes
 - Answer support questions on Slack and IRC
 - Write documentation

⁷ Create a Repo [github](#)

Python MacAdmin Tools⁸

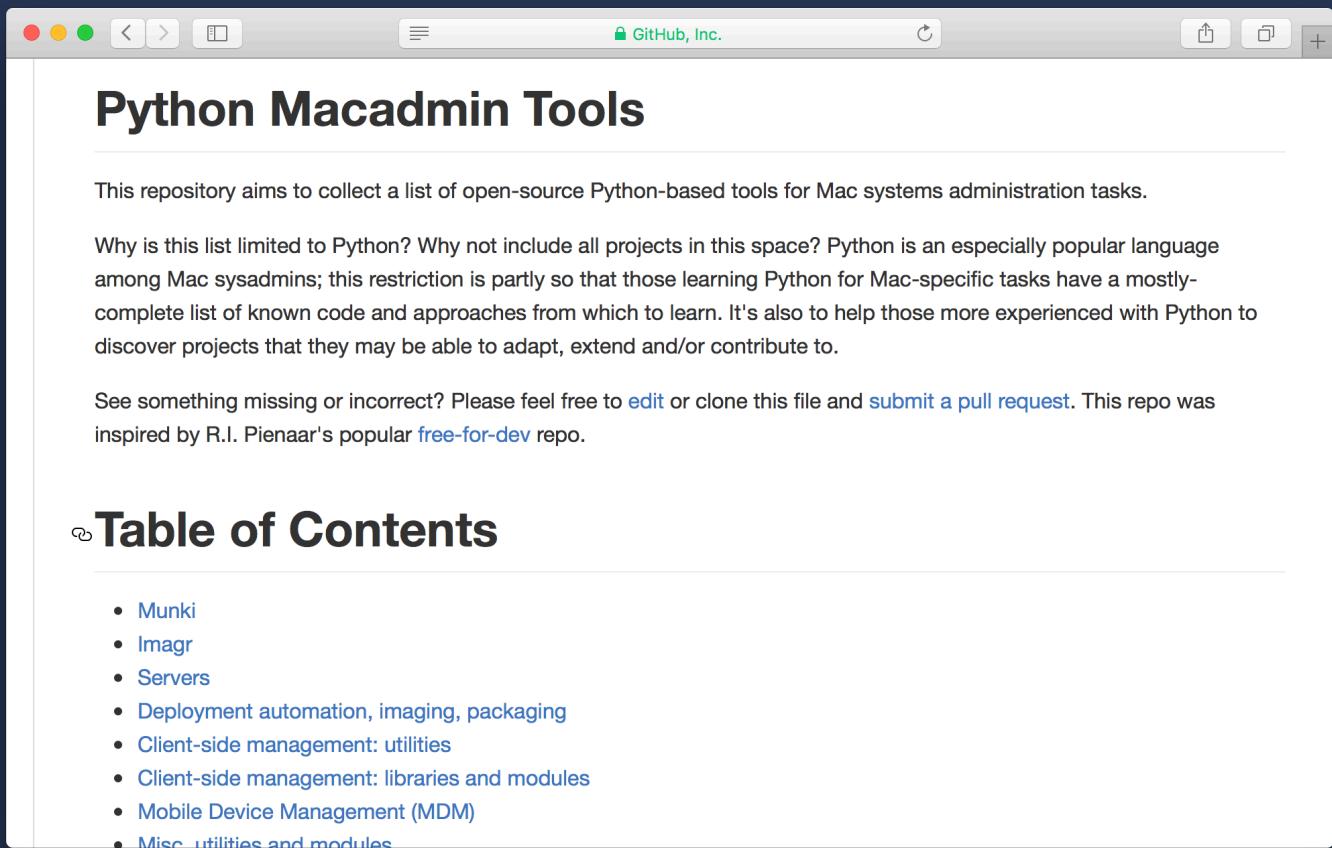


Table of Contents

- [Munki](#)
- [Imagr](#)
- [Servers](#)
- [Deployment automation, imaging, packaging](#)
- [Client-side management: utilities](#)
- [Client-side management: libraries and modules](#)
- [Mobile Device Management \(MDM\)](#)
- [Misc. utilities and modules](#)

⁸ Python MacAdmin Tools [github](#)



Joseph Chilcote

@chilcote

I made a thing! Automatically process pkgs and scripts at firstboot and/or each (subsequent) user login. github.com/chilcote/outset
[#macadmin](#)



chilcote/outset

outset - Automatically process packages, profiles, and scripts during boot, login, or on demand.

[github.com](https://github.com/chilcote/outset)

Choose an open source license

{ Which of the following best describes your situation? }

Help us help you⁹

I want it simple and permissive.

The [MIT License](#) is a permissive license that is short and to the point. It lets people do anything they want with your code as long as they provide attribution back to you and don't hold you liable.

[jQuery](#), [.NET Core](#), and [Rails](#) use the MIT

⁹ Choose a license [website](#)

I'm concerned about patents.

The [Apache License 2.0](#) is a permissive license similar to the MIT License, but also provides an express grant of patent rights from contributors to users.

[Android](#), [Apache](#), and [Swift](#) use the Apache License 2.0.

I care about sharing improvements.

The [GNU GPLv3](#) is a copyleft license that requires anyone who distributes your code or a derivative work to make the source available under the same terms, and also provides an express grant of patent rights from contributors to users.

[Bash](#), [GIMP](#), and [Privacy Badger](#) use the GNU GPLv3.

Eight Considerations For Your Open Source Project

- Don't start with a wildly ambitious goal.** Start your project with a simple, attainable goal. What does success look like? In my scenario, I wanted 1–2 people on my team to see my script as being successful.
Don't try to make it perfect
hours
- Don't forget the documentation**
Everything since has been extra-credit.
- Don't forget to have some fun**
Don't try to account for every scenario. If I had gotten hung up on some long-term details for the project, Oh My Zsh would never have happened.
Nearly everything that has been added to the project has come organically post-initial release.

One of the beautiful aspects of an open source project is that your user base

¹⁰ d'Oh My Zsh [medium](#)

thank you

@chilcote