

**GoOSE Linux**

**Rebuilding Enterprise Linux**

**The 'Community' Way**

Hello. My name is

# Clint Savage

People online call me herlo

I participate online at the following places



I don't always blog, but when I do, I use  
<http://sexysexypenguins.com>

This presentation

# Is Interactive!

Please ask questions.

# The Request



**Dag Wieers**  
@dagwieers

 Follow

Anyone willing to fund a RHEL rebuild project with timely releases, transparent processes and fosters community involvement ? #not-centos

<https://twitter.com/#!/dagwieers/status/57563280260087808>

# The Response

## Goozbach's Tech Tips

### Bootstrapping a RHEL Clone

By Derek Carter on April 12, 2011 11:07 PM | [1 Comment](#) | [No TrackBacks](#)

There was some interesting [action](#) on the CentOS mailing list recently which stemmed from a [tweet](#) posted by Dag Wieers.

The question posited is: "How does one rebuild RHEL in a timely, open and collaborative way?"

Well, a few of my UTOSC friends and I did a little brainstorming and came up with what we think a good bootstrapping infrastructure for just such a project would entail:

A good model

A good example of how to run a distro is [Fedora](#). Their infrastructure team is very open and inclusive. They do have a system which allows for automated timely builds as well.

<http://blog.friocorte.com/2011/04/bootstrapping-a-rhel-clone.html>



# The Result?

An 'Enterprise Linux' Rebuild Project

With a goal to grow the EL Rebuild ecosystem

## The GoOSE Project

Focused on making rebuilds a 'transparent' process



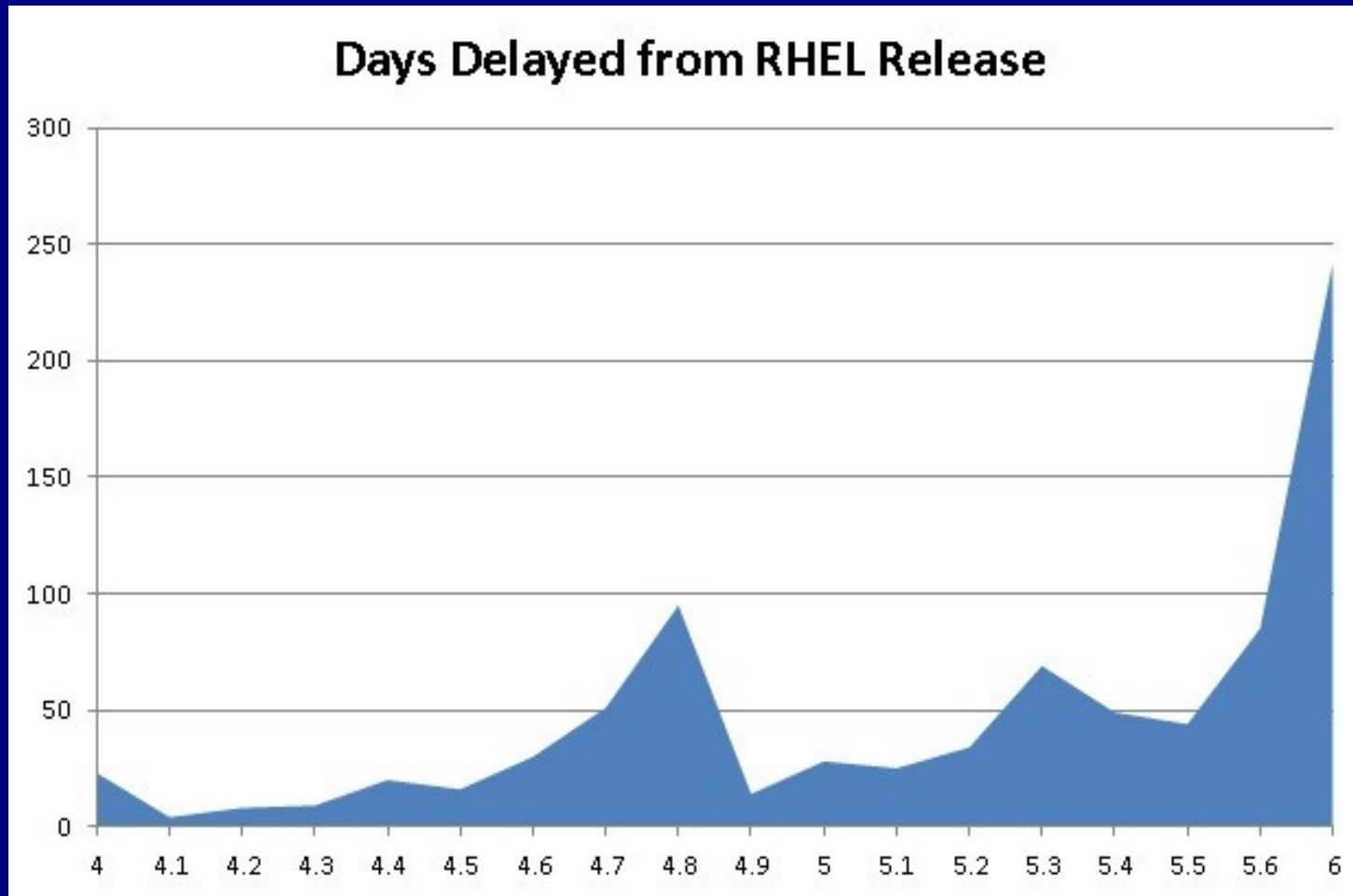
Why are you building

# The Go0Se Project?

Doesn't CentOS\* already do this?

Is there really a need?

\* - Ask Scientific Linux, ClearOS, Acendos.  
They likely have thought this through as well.



**CentOS releases are becoming more time-consuming.**

Image Credit: <http://www.standalone-sysadmin.com/blog/2011/07/centos-6-great-but-for-how-long/>





**“No, no, you have it all wrong ! The C in CentOS means Closed ;-)”**

**-- Dag Wieers (Feb 16, 2011)**

**<http://lists.centos.org/pipermail/centos-devel/2011-February/006644.html>**

# **What is going on here?**

**“CentOS is for the community ... it is not BUILT buy the community.”**  
**[sic]**

**-- Johnny Hughes (March 10, 2011)**

**<http://lists.centos.org/pipermail/centos-devel/2011-March/007101.html>**



It is all about

# The Community

A community of 'contributors'

# Contributors are the key

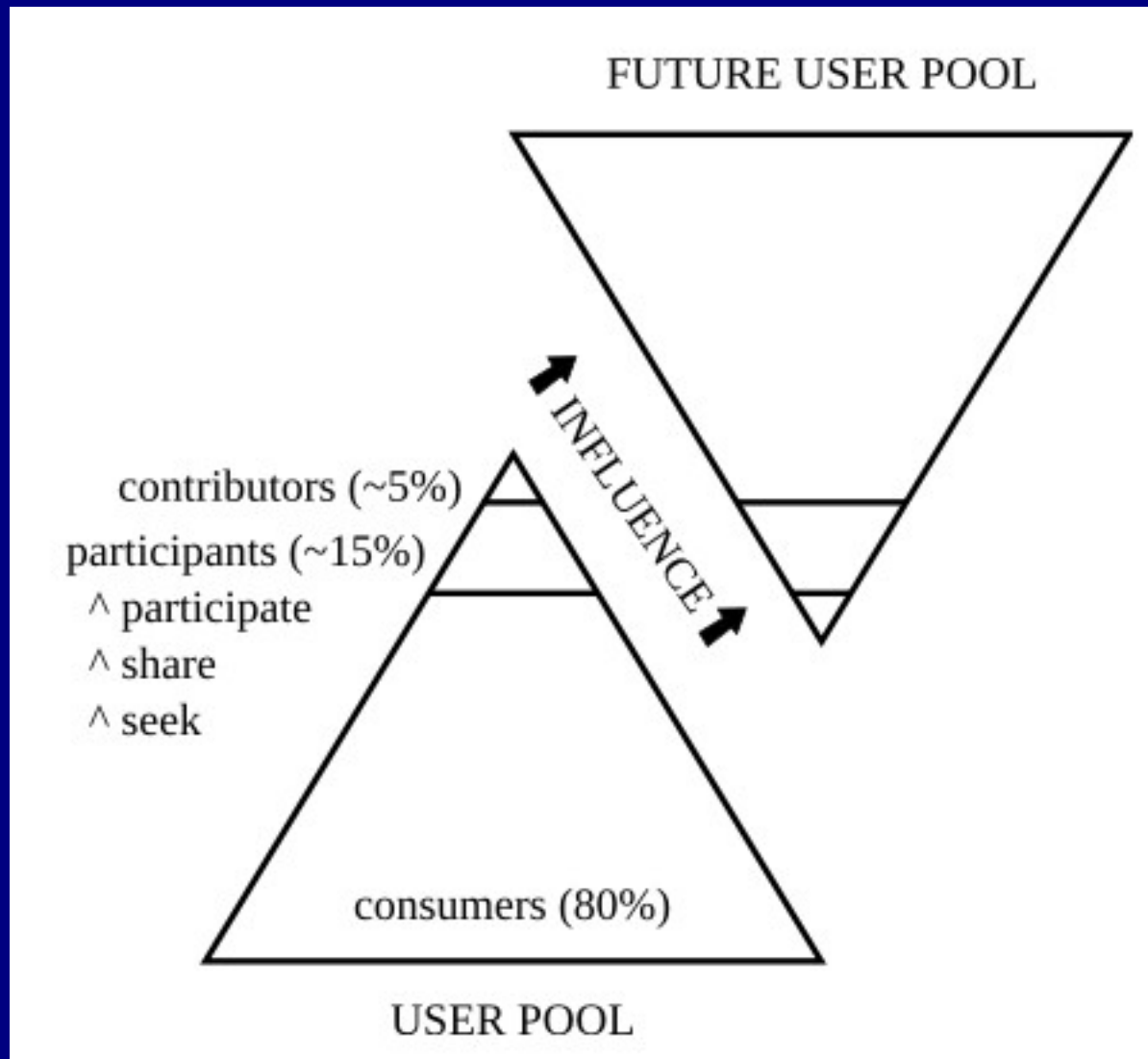


Image Credit: <http://iquaid.org/2009/04/14/community-sets/>

# to successful communities



Reasonable and attainable

# Goals

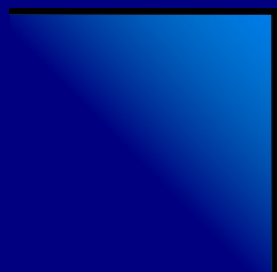
are very important



Visibility into the process

# #1 Transparency

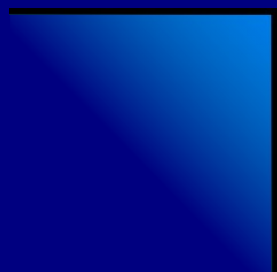
How does GoOSE perform tasks?



Built **by** the community

# #2 Community

Built **for** the community



**Major releases within 120 days  
after upstream (el6 -> el7)**

**#3 Updated**

**Minor releases within 30 days  
After upstream (el6.1 -> el6.2)**



Anyone can replicate GoOSE by reading documentation

# #4 Forkability

Proper licensing to make code and docs available





If you do the work

# #5 Meritocratic Flexibility

You can decide

You need

# Tools and Infrastructure

To rebuild an enterprise operating system

We stand on the shoulders of awesomeness!



<http://github.com>



<https://fedorahosted.org/koji>



<http://python.org>

# Our Toolbelt

We have quite a bit of code too!

Written for the GoOSE Project

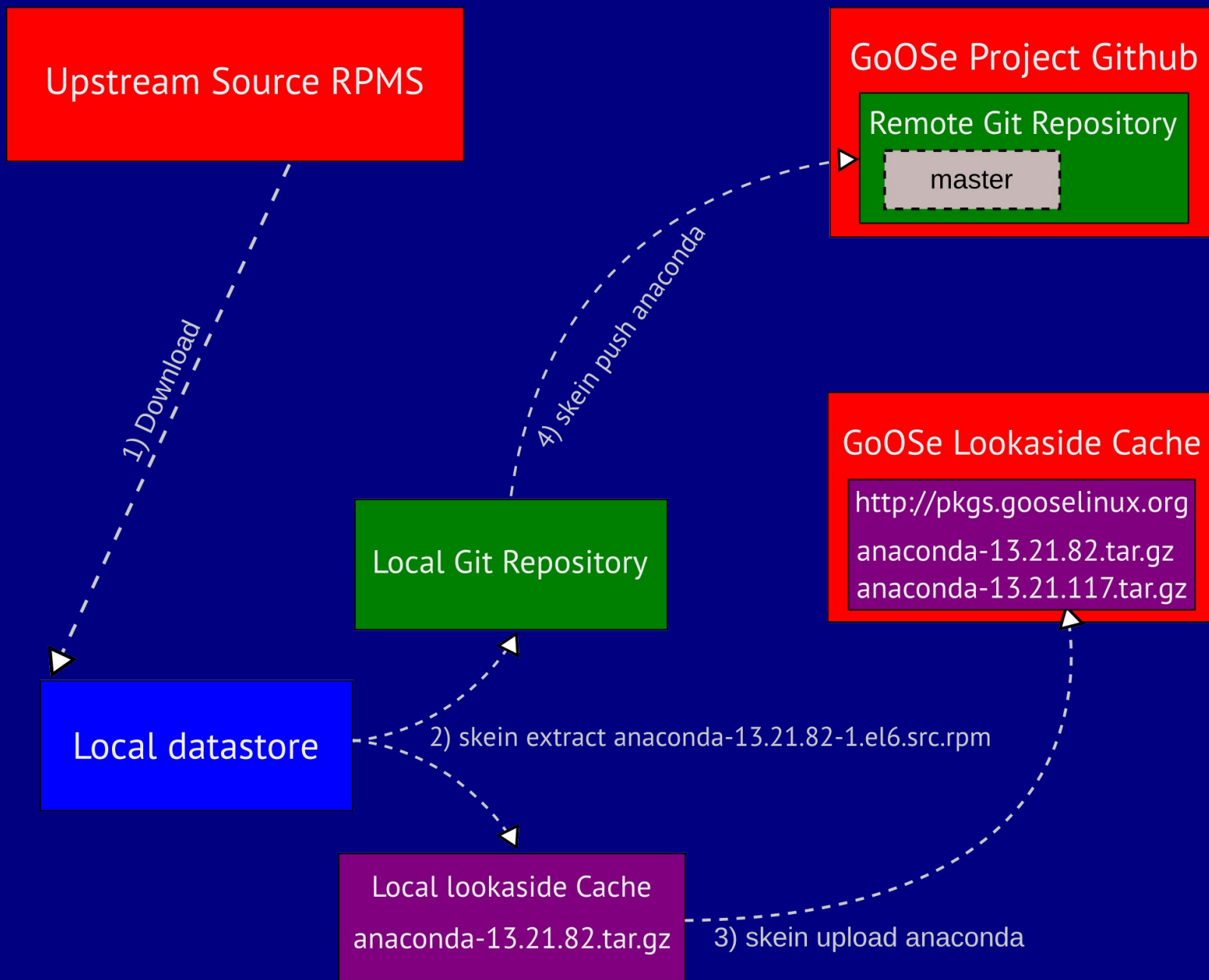
- skein – manages imports and builds
- grapple – git hook to automate koji
- reposort – dependency ordering (very alpha)

Forks from other projects

- Python-github2
- Python-github3 (soon)
- supybot-gribble / meetbot

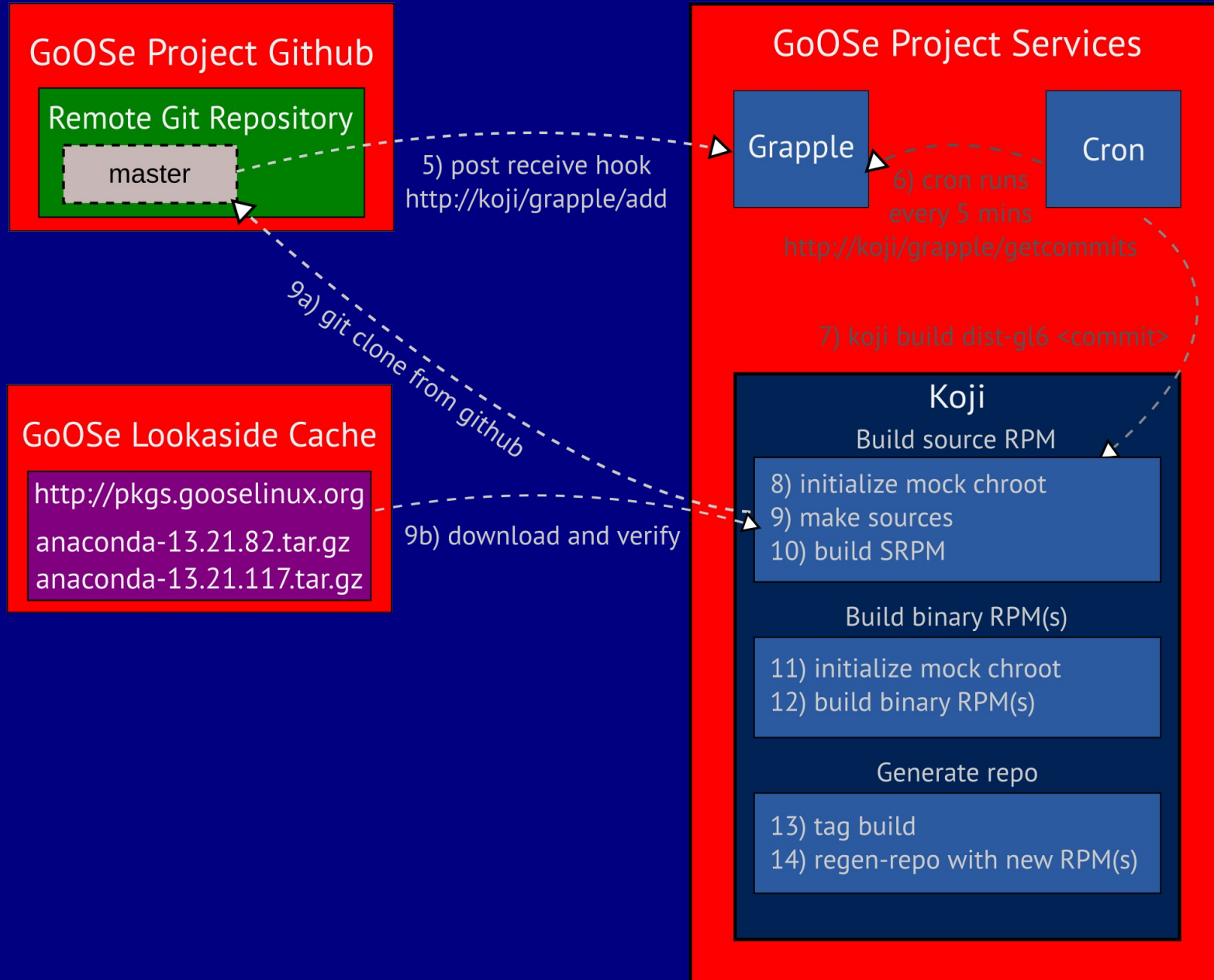
# Building GoOSE Linux - Part I

## Importing from Upstream



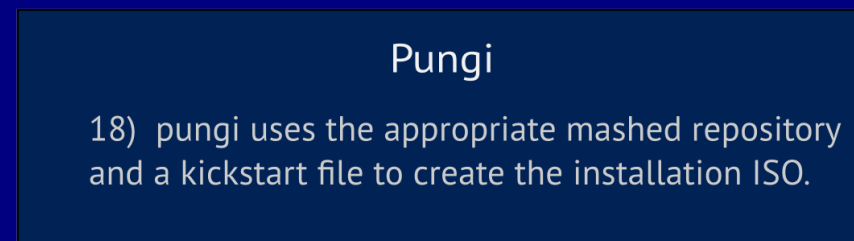
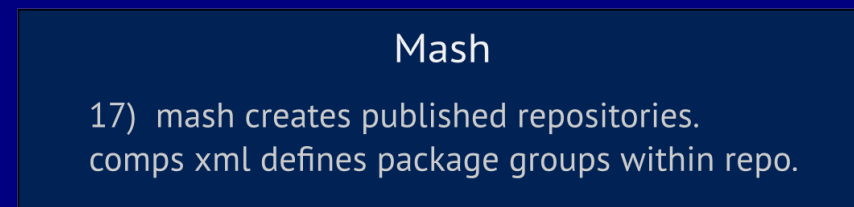
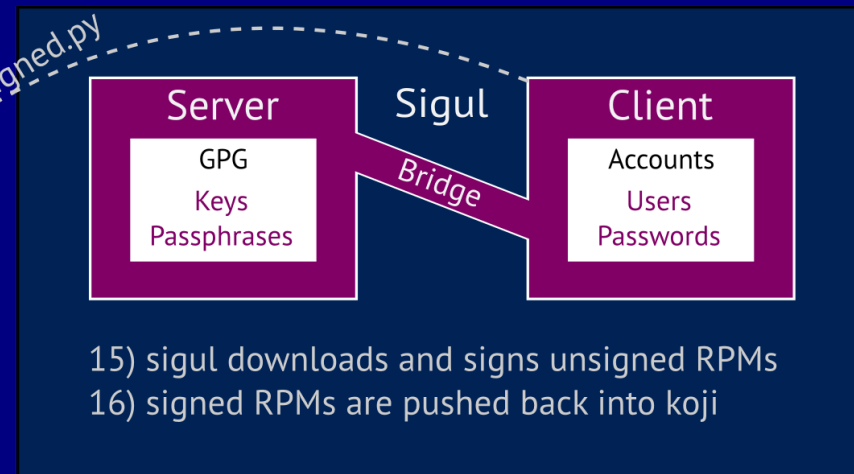
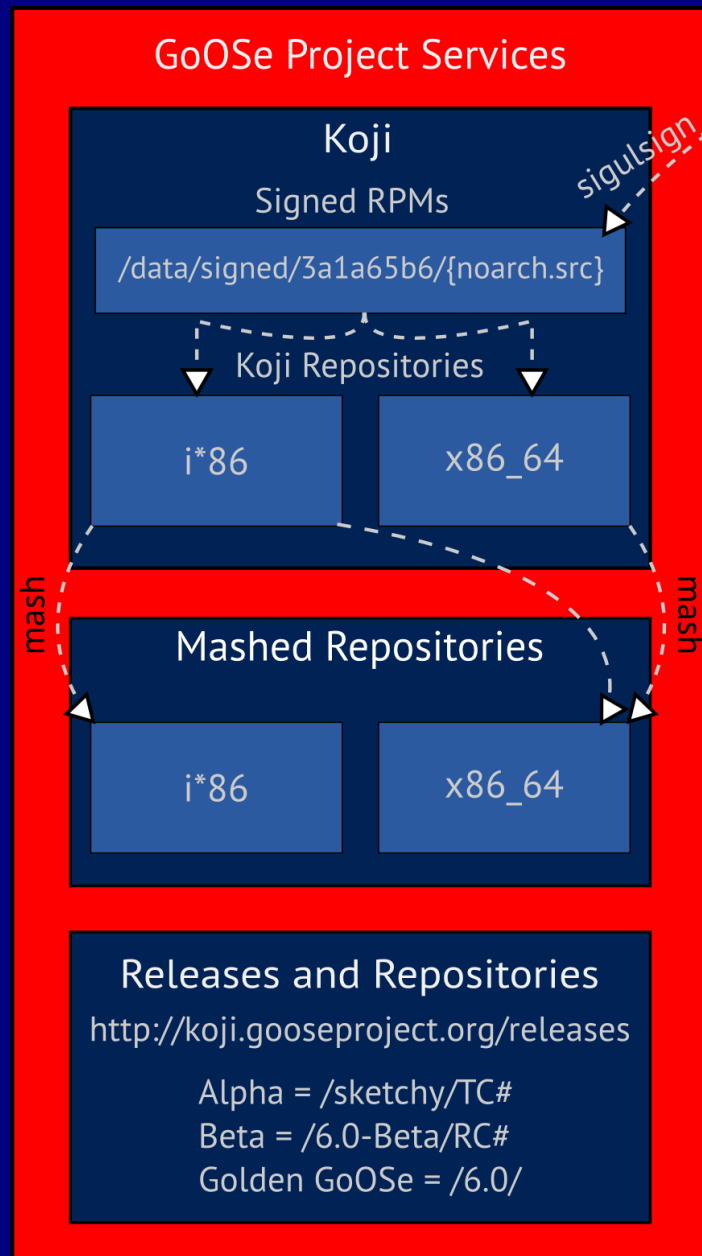
# Building GoOSE Linux - Part II

## How an RPM is built



# Building GoOSE Linux - Part III

## GPG Signing, Repo Mashing, ISO Creation





How far have you gotten

# One Year into the Project

Share your progress

We currently have 16

# Contributors

Many are in #gooseproject every day

5 of which have made more than two commits

Much of our contribution has been in setup and configuration of toolsets like koji, mash, etc.



**We have successfully built almost 2200**

**Most built without intervention, some were a lot more work**

# **Packages**

**Patches to be sent upstream are tracked on github**

**Over 13000 rpms reside in our koji repository today**

**We have successfully performed 6 Alpha composes**

**Alpha ISOs are called 'sketchy'**

# **ISOs**

**The latest (TC6) now has gpg signed RPMs**

**All ISOs are downloaded and tested**

**Mirroring of Upstream Sources**

**Collaboratively Creating Docs**

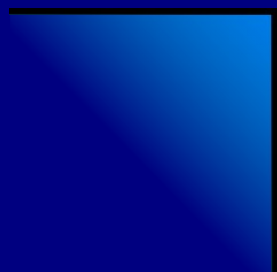
**Collaborating with other Enterprise Linux Rebuild projects**

# **More Hands, Less Work**

**Makes it easier to do the hard stuff**

**Building QA Test Suites**

**Cross-project backups**



Fork the `gooseproject/main` repository  
And send us a pull request!

**[join.gooseproject.org](https://join.gooseproject.org)**

**We need your help!**



**GoOSE 6.0 Beta is available today!**

**[get.gooseproject.org](http://get.gooseproject.org)**

**Download your copy now!**



# Thank you for your attention!

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email: [herlo@gooseproject.org](mailto:herlo@gooseproject.org)

project url: <http://github.com/gooseproject>

irc.freendode.net: #gooseproject