Continuous Delivery





Hi, I'm Howard

@tizzo on twitter, github, drupal.org and anywhere I can get it





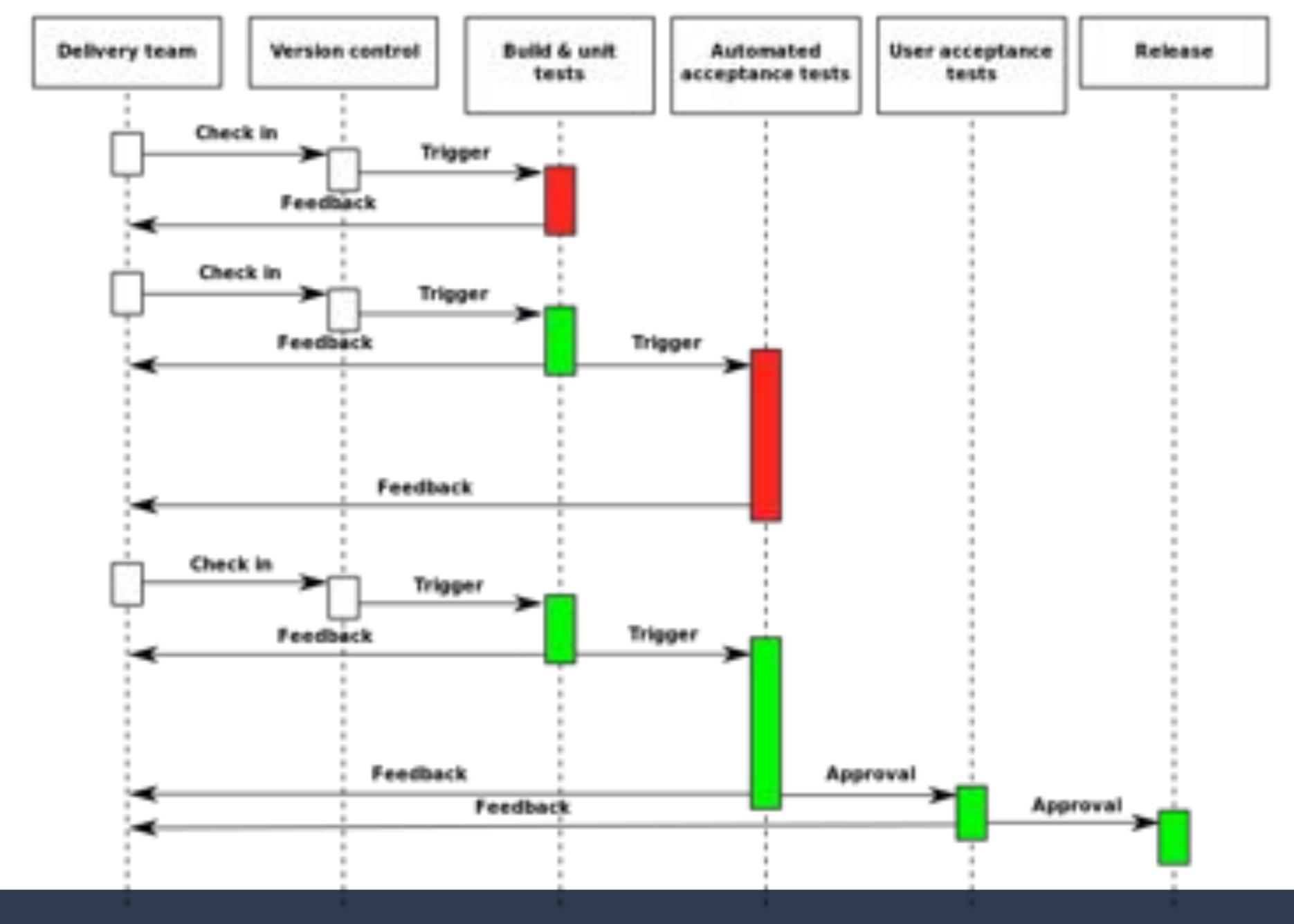


Continuous Integration



Continuous Delivery







Continuous Deployment



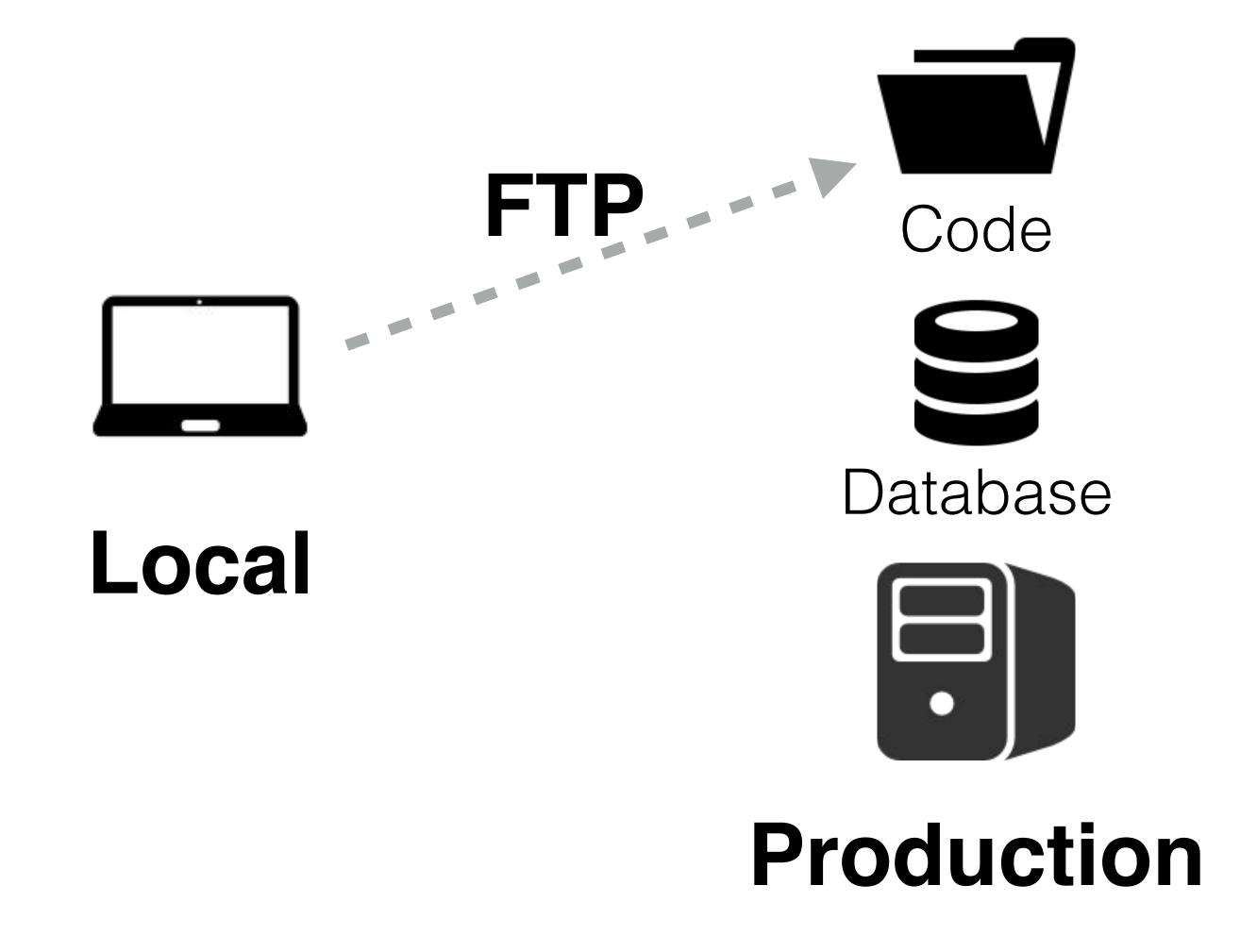
Efficiency = Small Feedback Loop





The Original Workflow

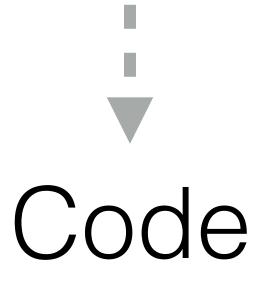






The Traditional Workflow

Create and assign ticket





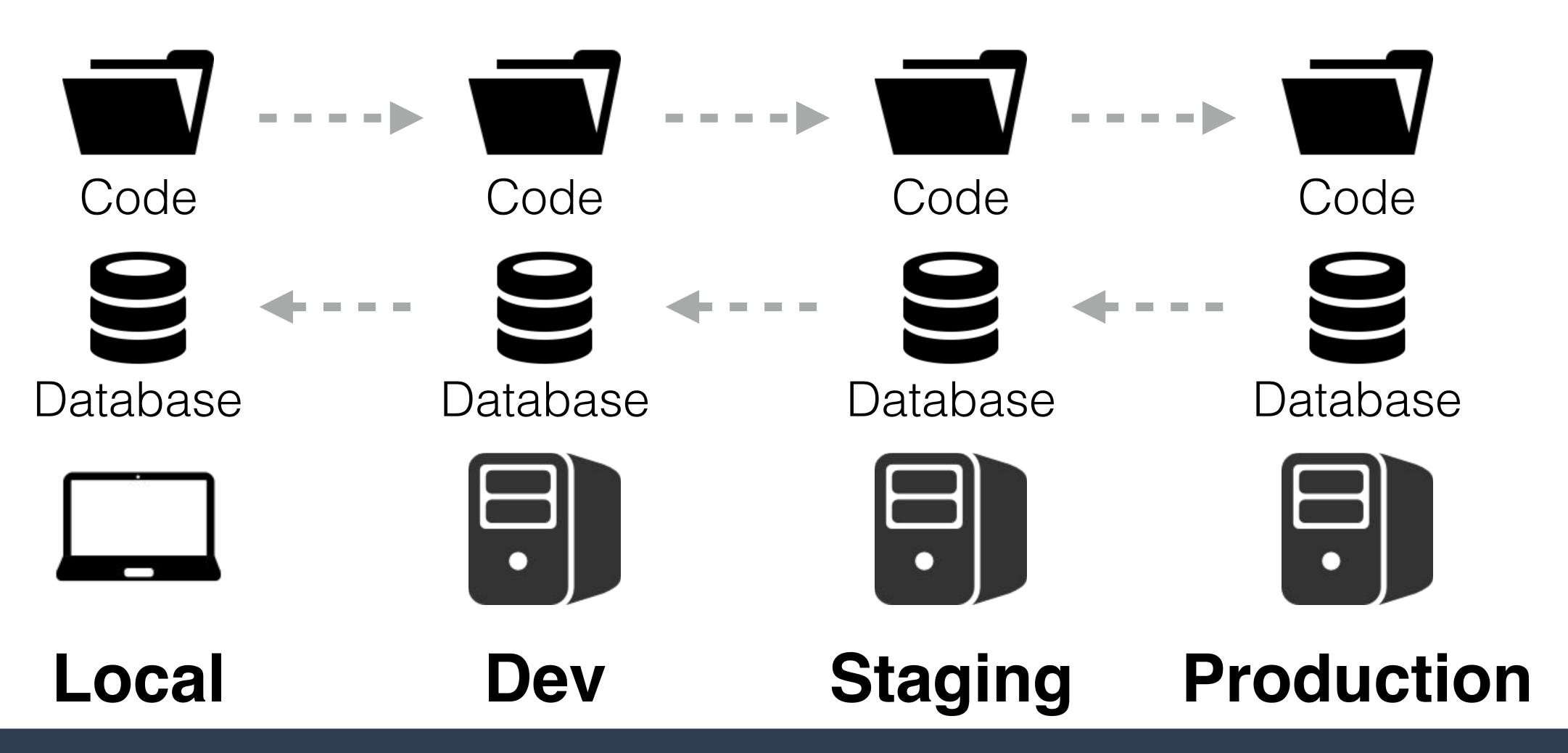
Commit



Review on Dev



The Traditional Workflow





The Better Workflow

Create and assign ticket



Commit to a feature branch



Client reviews on dev



The Best Workflow

Create and assign ticket



Commit to a feature branch 15513

Client reviews in sandbox

Merge and deploy



Our Old Workflow



Maybe your current one?



Lead assigns tickets





Devs are happy to help





Dev thinks and codes





Project Manager checks in





Dev promises it's all done





PM asks for a review





Lead checks out the branch





Lead reverts features





Lead runs database updates





Lead finds problems





Devs hear the grumbling





Devs hear the grumbling





Grumbling





PM fears the deadline





Dev regrets the mistake





PM hopes it's right now





Lead sees it finally works





Lead merges the fix





But the client hasn't reviewed it!



Clients want some fixes





But it was all merged to get it to the dev environment

```
a277cf0 Ticket #1, adding an image content type.
4483681 Ticket #3, adding view for the news section.
a65c40e Ticket #1, creating the homepage slider.
la1df95 Ticket #4, making name required on registration.
Odbe2e6 Ticket #1, updating the image style.
24b55b6 Ticket #4, adding middle initial field.
Odbe2e6 Ticket #5, adding login rule for redirect.
```



The client wants to deploy one feature they need and are happy with

```
a277cf0 Ticket #1, adding an image content type.
4483681 Ticket #3, adding view for the news section.
a65c40e Ticket #1, creating the homepage slider.
1a1df95 Ticket #4, making name required on registration.
0dbe2e6 Ticket #1, updating the image style.
24b55b6 Ticket #4, adding middle initial field.
0dbe2e6 Ticket #5, adding login rule for redirect.
```





Hey Jason, just deploy some of that



`git cherry-pick`, I guess?

```
a277cf0 Ticket #1, adding an image content type.
4483681 Ticket #3, adding view for the news section.
a65c40e Ticket #1, creating the homepage slider.
la1df95 Ticket #4, making name required on registration.
Odbe2e6 Ticket #1, updating the image style.
24b55b6 Ticket #4, adding middle initial field.
Odbe2e6 Ticket #5, adding login rule for redirect.
```



Enter Continuous Delivery



Our new workflow



Lead assigns tickets





Devs are happy to help





Dev thinks and codes





Dev opens a pull request





Project Manager checks it





PM sees it is right





Client sees that it is right





Lead merges and deploys it





Projects run smoothly





There is relief





And much rejoicing





That's Great.



But how?!?!



Repeatable Deployments



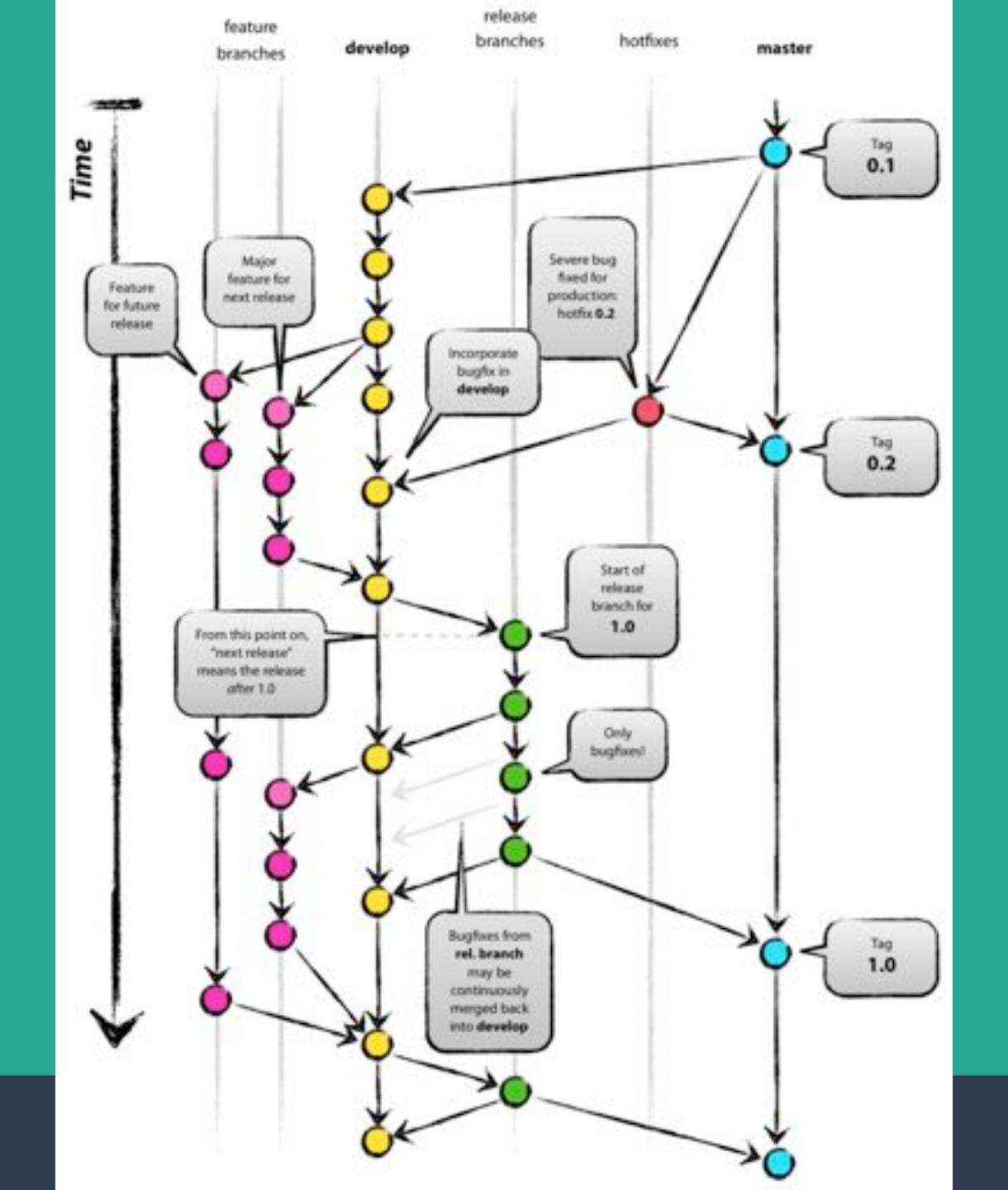


Feature Branches

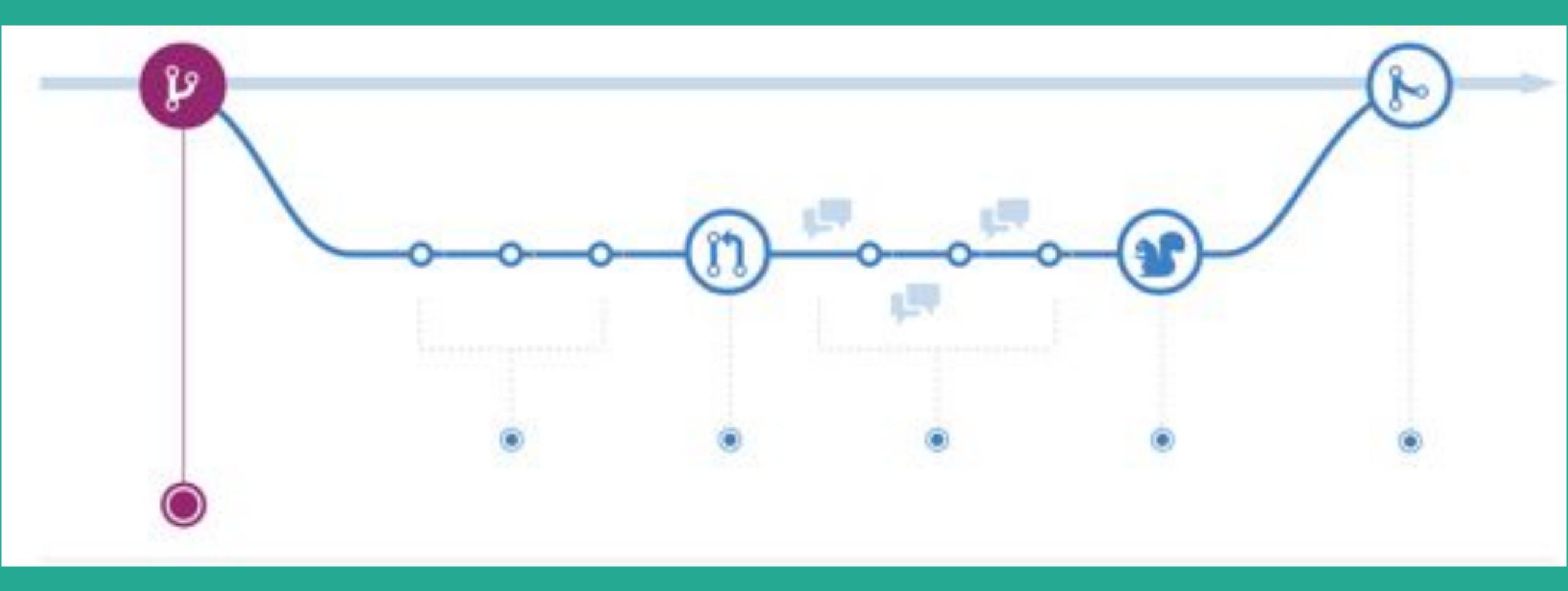


Feature Flags Not great with











Code Review Are you doing it?



Reviewing your own code...



Via DevOps Reactions: http://bit.ly/111Lbs1



Reviewing someone else's code...



Via DevOps Reactions: http://bit.ly/UQnmu0



Features module



Strongarm module



settings.php(s)



hook_update_N



Configuration Management



Standards





Coder/PHPCS



Testing



Simpletest



PHOLIPUIN





Behat Drupal Extension



Automation





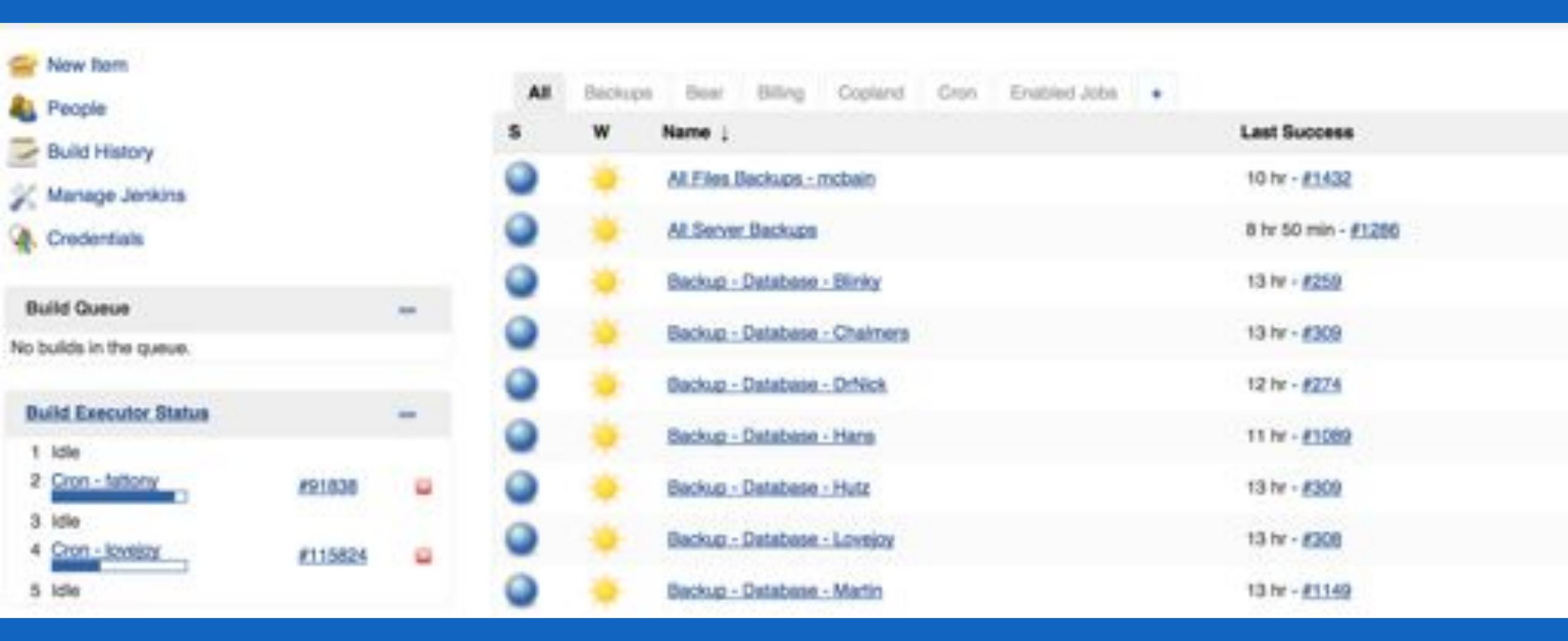
Jenkins



Jenkins

https://jenkins-ci.org http://jenkins-php.org







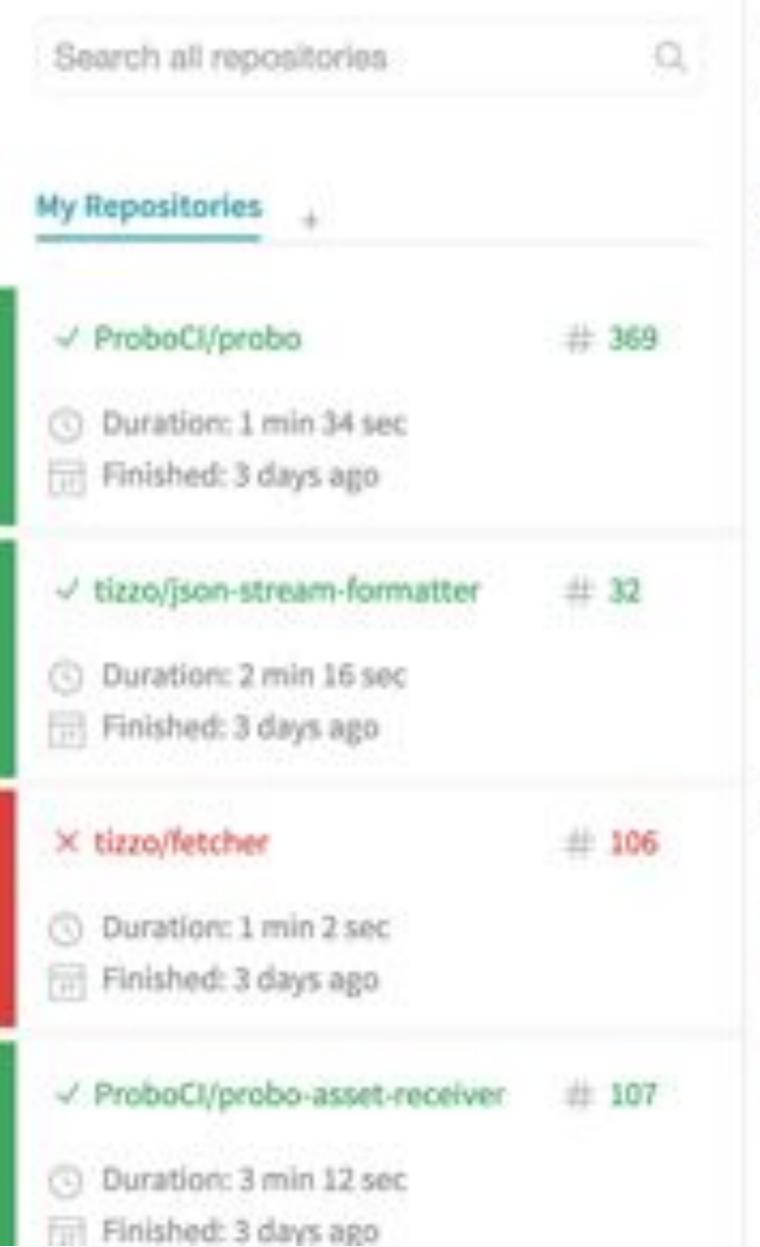






Travis C





ProboCI/probo @ total person





urrent	Branches	Build History	Pull Requests
	uild-class F eps, updatio		eam handling, standardizing, fixing interfactive
- 6	Commit 58	fd19e	
6	Compare 9	880e0f458fd19e	
6	Howard Ty	son authored ar	nd committed

Build Jobs

✓ # 369.1	Node.js: iojs	no environment variable
√ # 369.2	♦ Node.js: 4.0	(1) no environment variable
√ # 369.3	♦ Node.js: 4.1	(3) no environment variable



Perfect automated testing is impossible with Drupal.



There's too much code.



There's too the databse.





- Master has a mix of things that are and are not yet vetted by clients
- Testing feature branches is hard, devs want to work on master
- Only developers can see anything on a feature branch
- Dev has useful test content but it gets wiped a lot



With QA Sandboxes

- Master has only work approved by the client and is always ready for deployment
- Every team member and client can see where every ticket is
- Reviewing is easy lead doesn't even need a local environment
- Test content needed for review doesn't get wiped
- Deployment steps have always been verified



Probo.CI



"OMG, another CI tool..."

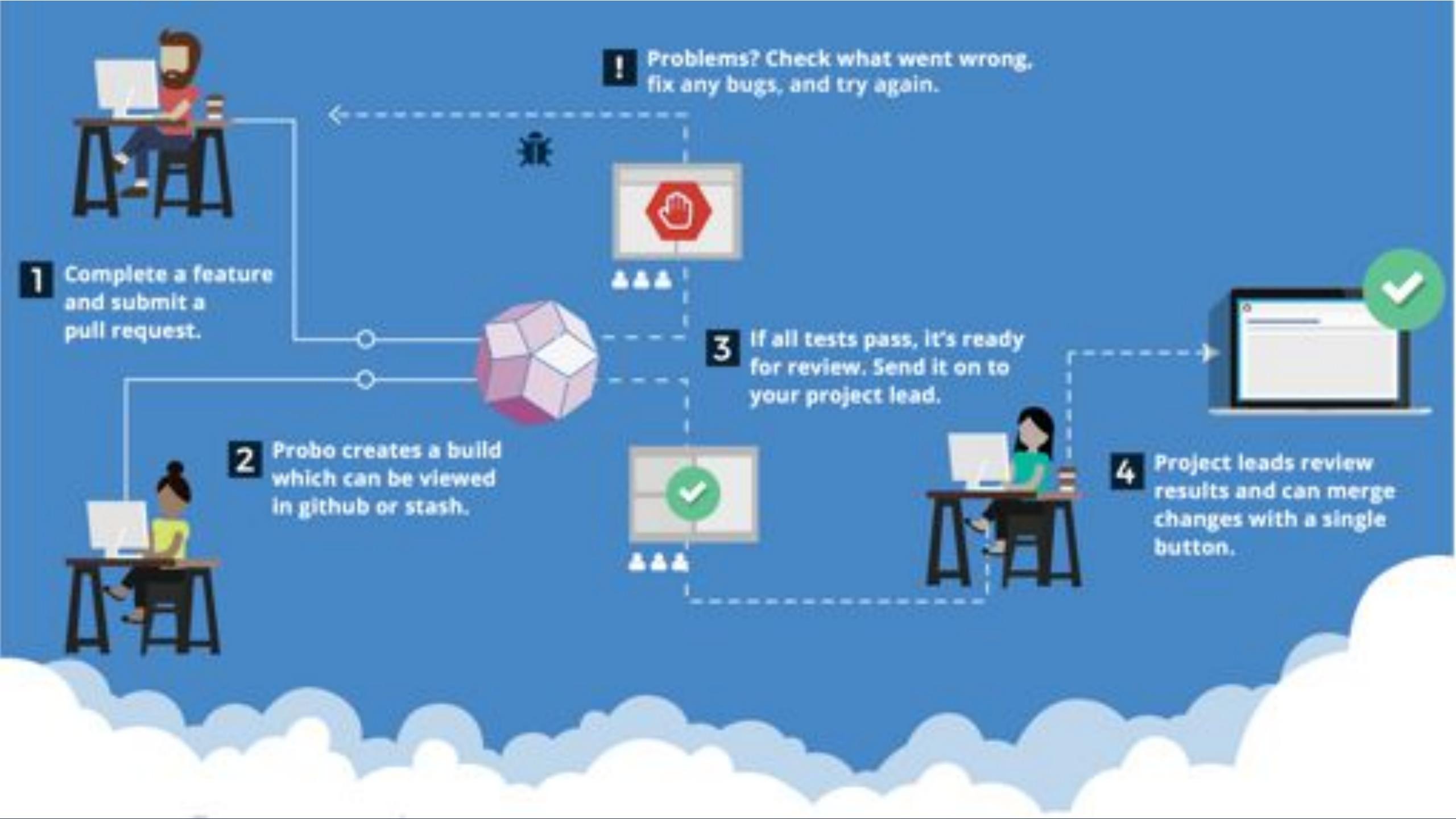
Probably you



Probo.Clis...

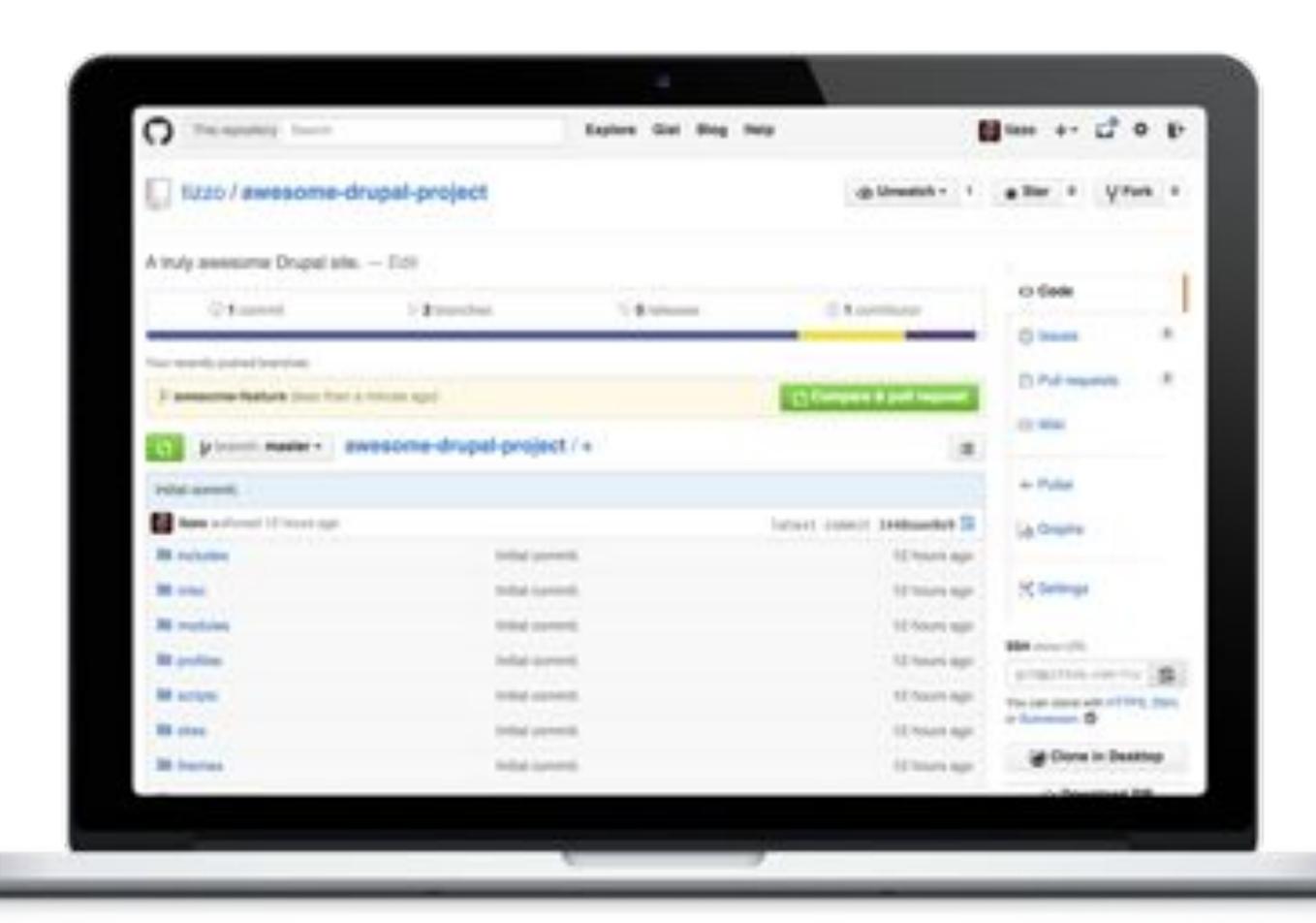
- An Open Source Continuous Integration tool
- A Software as a Service platform for running tests





Github & Bitbucket Integration















We run Fat Containers



Let's call it a MACRO Service



Open Source Github Handler Container Manager Docker Proxy Loom



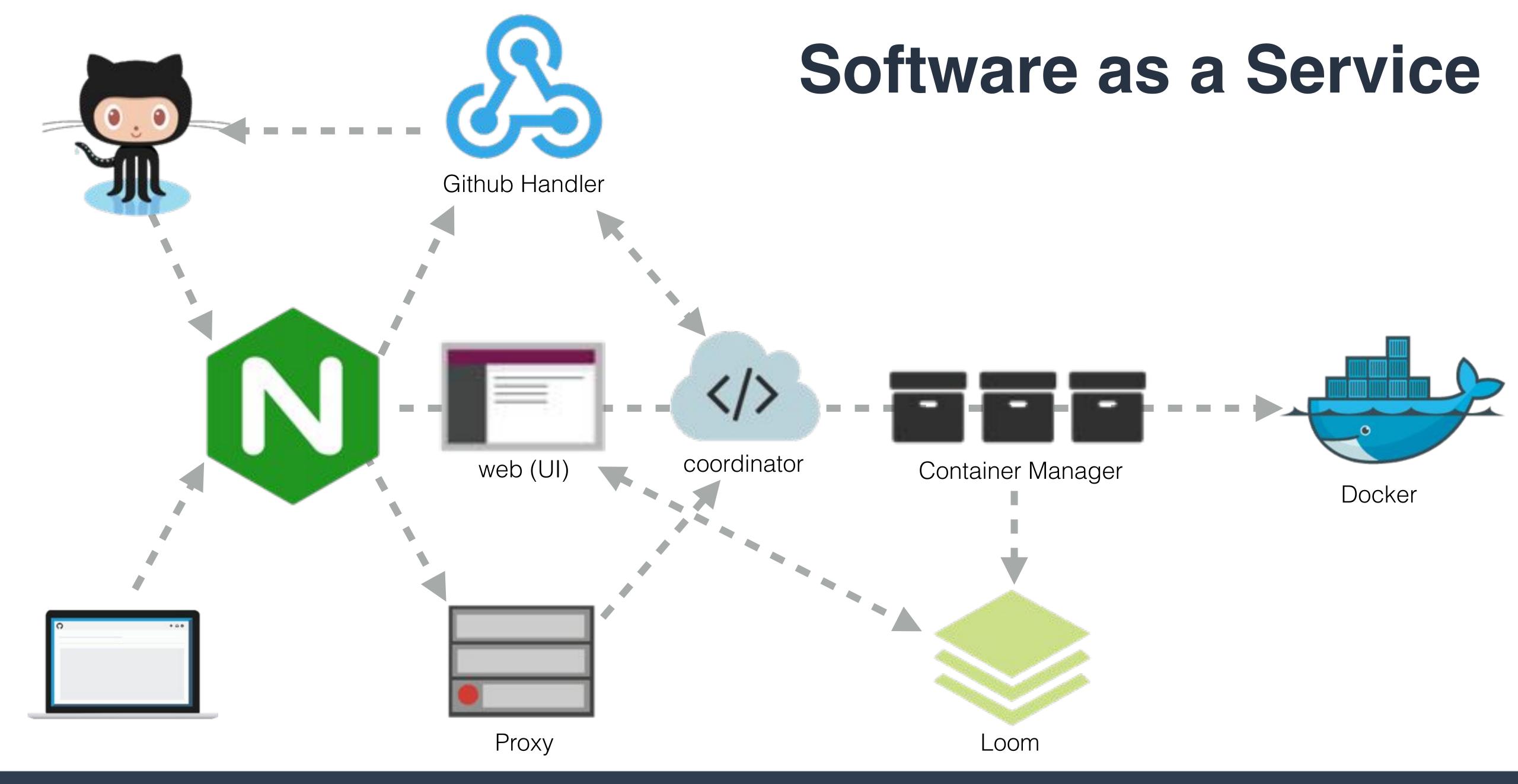
Run it yourself!

Checkout the QUICKSTART.md github.com/ProboCl/probo



Open Source Github Handler Container Manager Docker Proxy Loom

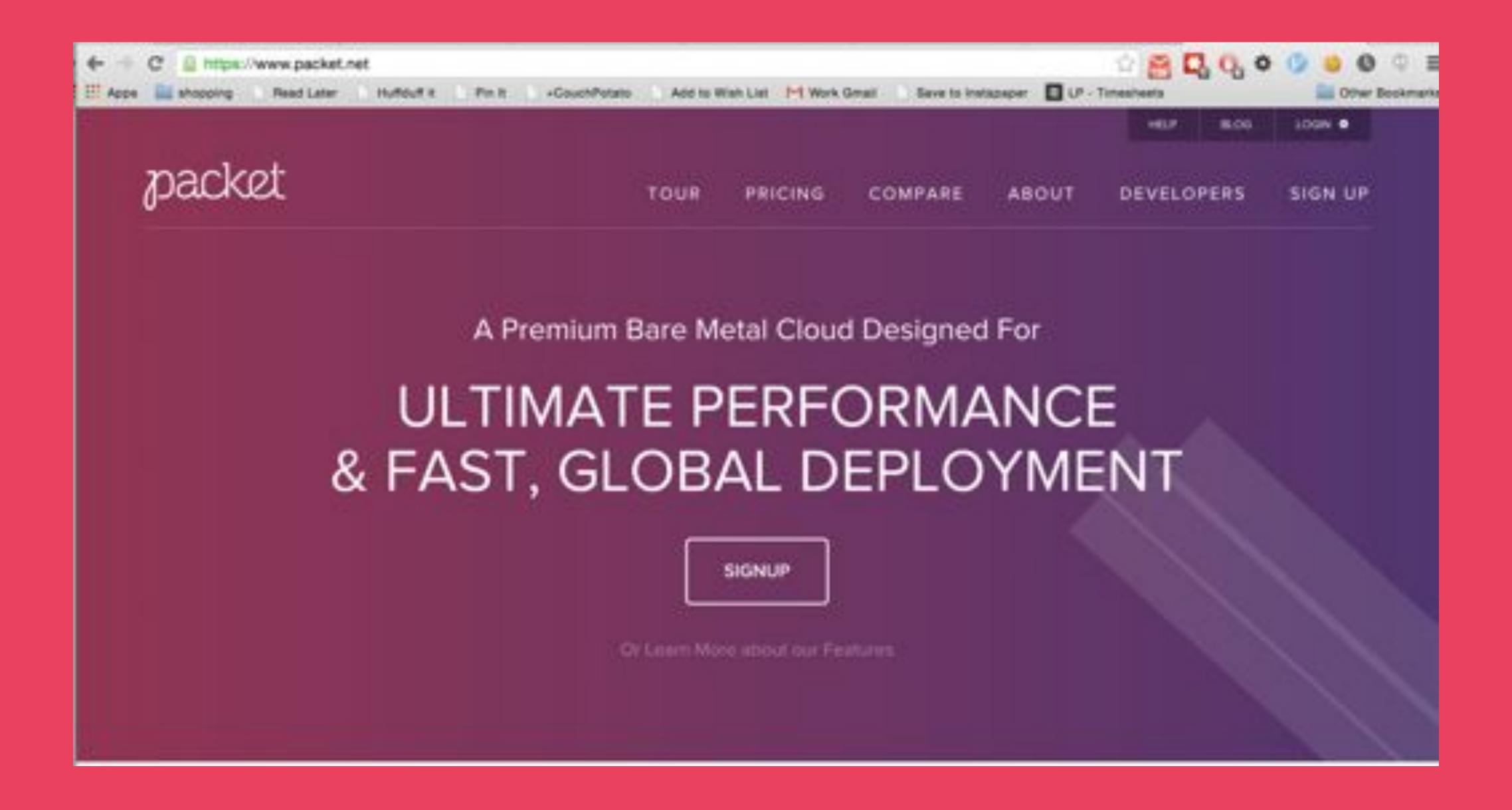






packet







https://app.probo.ci

We're in public beta, get started today!

Continuous Integration



Continuous Delivery



Continuous Deployment



Thank you!

