

buildbot.mariadb.org

~starting from scratch~



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Supporting continuity and open collaboration

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buildbot.askmonty.org

The good

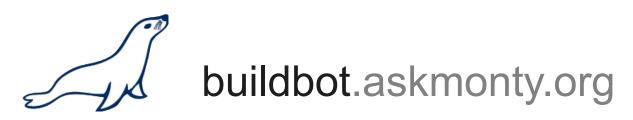
- Existing builders and functional configuration
- Familiarity for core contributors
- Custom MTRLogObserver plugin and Cross-Reference reports
- Insert your own

The bad

- Out of date buildbot version 0.8 used; difficult to upgrade in place
- Using only KVM and bare-bone builds
- No support for highly desirable features like e-mail notifications, cloud/container builders, github PRs and gatekeeping
- No scalability options
- Personal grievance: many people are editing the maria-master.cfg directly on Hasky without proper use of VCS

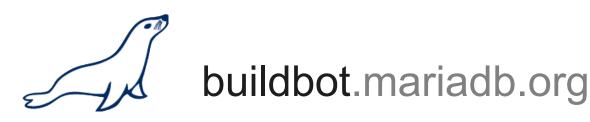
...And the ugly

Is under **heavy load** most of the time. Usually takes **minutes to load** a simple web page request, many git **hook requests are denied** and **builds** may be **postponed for days**, especially **before a GA release**.



< insert screenshot here when it does load ;->

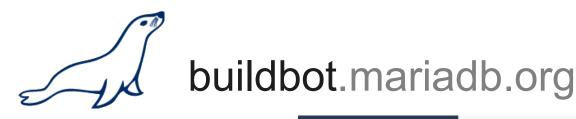




A fresh outlook,

Start from scratch, not many reasons why we shouldn't, on Digital Ocean for now, using latest Buildbot v1.2.0:

- support for Docker (LatentWorker) and other container types
- e-mail notifications based on user db constructed from git commit msgs
- multi-master configuration
- python 3
- fresh responsive, lazy loading and modern web UI
- performance, data, modularization, reporting and API improvements
- support for AWS EC2 and other cloud services
- can still use MTRLogObsever \o/



A couple weeks

later, with no prior buildbot or docker deployment experience:

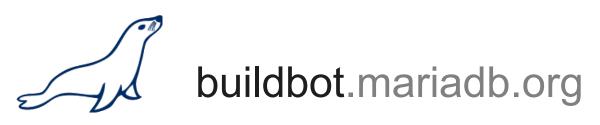
- Fully functional master bbm1. Easy to replicate.
- 2 classical workers bbw1,2, can run normal builds. Easy to replicate.
- 2 docker-bbw1,2 hosts running builders for Ubuntu 18.04, 16.04, Debian 9, Fedora 8, CentOS 7 and OpenSUSE Leap 15. Easy to replicate.
- Watching all main upstream branches and bb-* prefixed.
- Is live now!

MariaDB CI	#	
NAVIGATION		
Home	â	
Grid View	æ	
Waterfall View		
Console View	0	
> Builds	¢\$	
About	0	
Settings	ţţî	

M	ariaDB CI
ŀ	Home
	Welcome to buildbot

6 builds running currently

debian-stretch-docker, building	/57	<mark></mark> 21:16
ubuntu-1804-docker/5 building	5	<mark></mark> 21:16
centos-7-docker/52 building		<mark></mark> 21:16
opensuse-15-docker/5 building	52	<mark></mark> 21:16
fedora-8-docker/52 building		 28:43
ubuntu-1604-docker/5 building	4	 31:00
20 recent builds		
debian-stretch- docker	ubuntu-1804-docker	fedora-8-docker



Why Docker containers?

- Easy (and cheap) to setup new builds (distros, compilers, etc..)
- Easy to inspect, reproduce the build env and debug locally (unlike KVMs)
- Easy to scale and spin up more builders/workers before a GA release
- Easier to share data, caches, build artefacts back and forth
- Adding a new docker host is as simple as setting up docker on a machine (Linux, macOS, Windows) and pointing to buildbot.mariadb.org

Not suitable for:

- *BSDs and macOS builds
- Windows builds
- Multiple arch testing

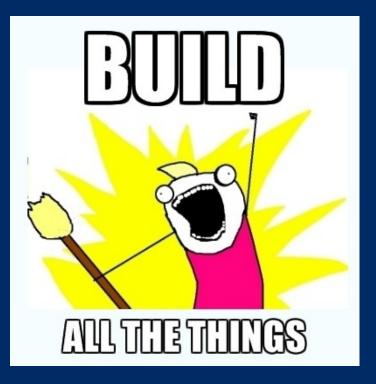


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Going forward

- Provide build feedback in less than 60 minutes (perf tune, ccache, split tests, MTR fixes & improvements)
- Run on GitHub PRs
- Gatekeeping + Fire&Forget
- E-mail **notification** when a breaking change occurs (directly to committer and author)
- Setup package, tarball builders
- Setup builders with valgrind, *SAN, *lints and *static checkers
- Automate scaling, load balancing and spin-ups
- Publish repo and Dockerfiles
- Use classical git development process for maria.cfg (don't use git for backups)
- Different color for failed compile vs MTR?





~Thank you~

