



1. Strengthen your Yocto deployments with Autobuilder2 CI tool

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<https://koansoftware.com>

Who am I

- Founded **KOAN** on 1996
- Working with software for industrial automation until 1999
- Linux embedded developer since 2000
- Openembedded board member since 2009
- Yocto Project participant since 2010
- Yocto Project Advocate since 2012
-
- **Software development and consulting**
- **BSP creation**
- **Device driver kernel development**
- **Open embedded and Yocto Project training**

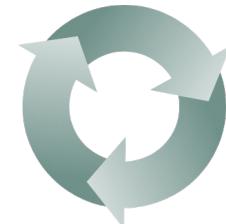
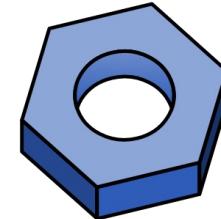


Agenda

- **What is a Continuous Integration (CI) system**
- **Autobuilder2 History**
- **Buildbot, the foundations**
- **Buildbot mechanics**
- **Buildbot installation**
- **Autobuilder2 installation**
- **Autobuilder2 configuration**
- **Autobuilder2 usage (as-is)**
- **Autobuilder2 customization**
- **Autobuilder2 usage for CI on a single machine**

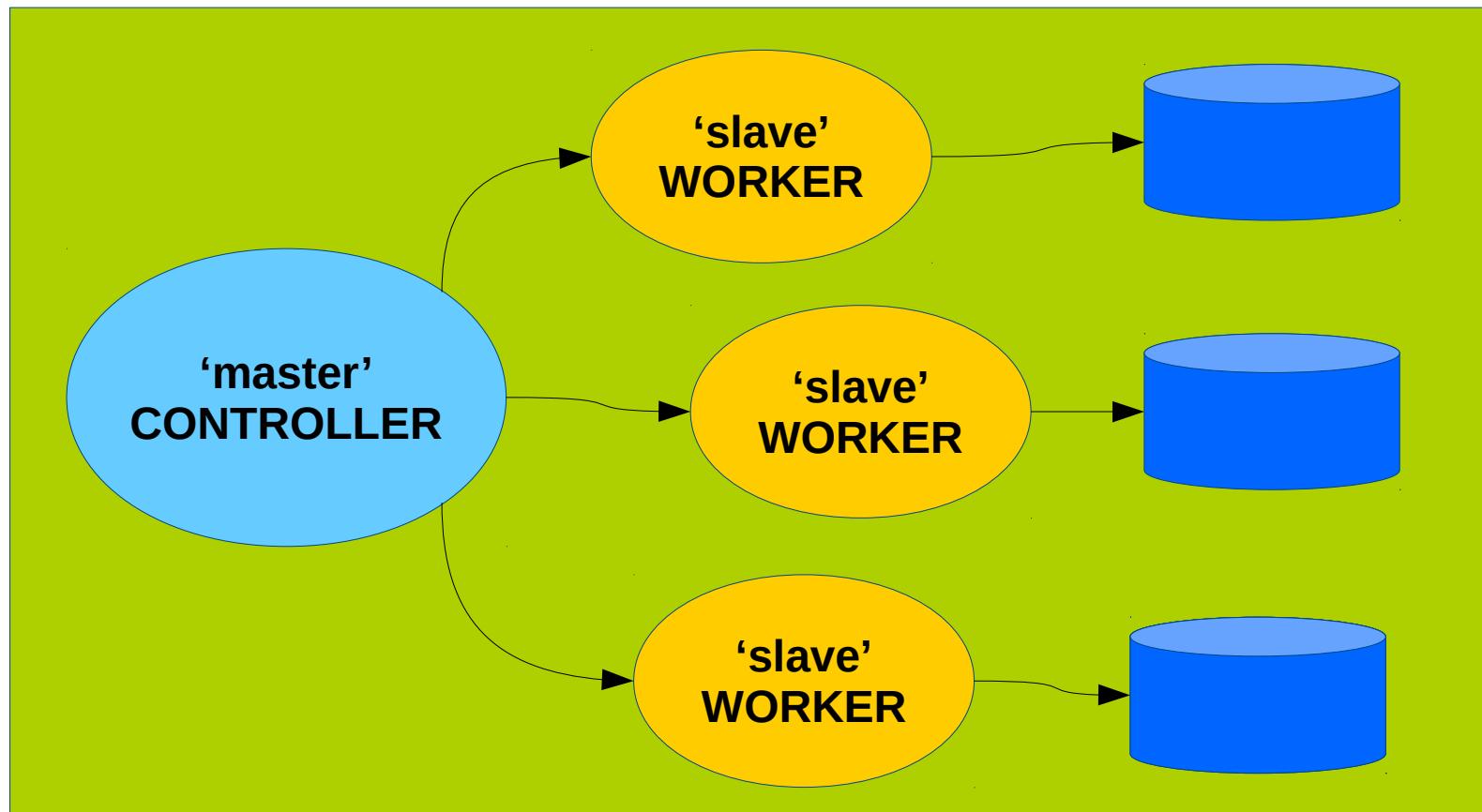
What is Autobuilder

- Autobuilder is a project based on Buildbot
- Buildbot is a Python open-source application used to build, test, and release a wide variety of software.
- Autobuilder and Buildbot are licensed under GPLv2



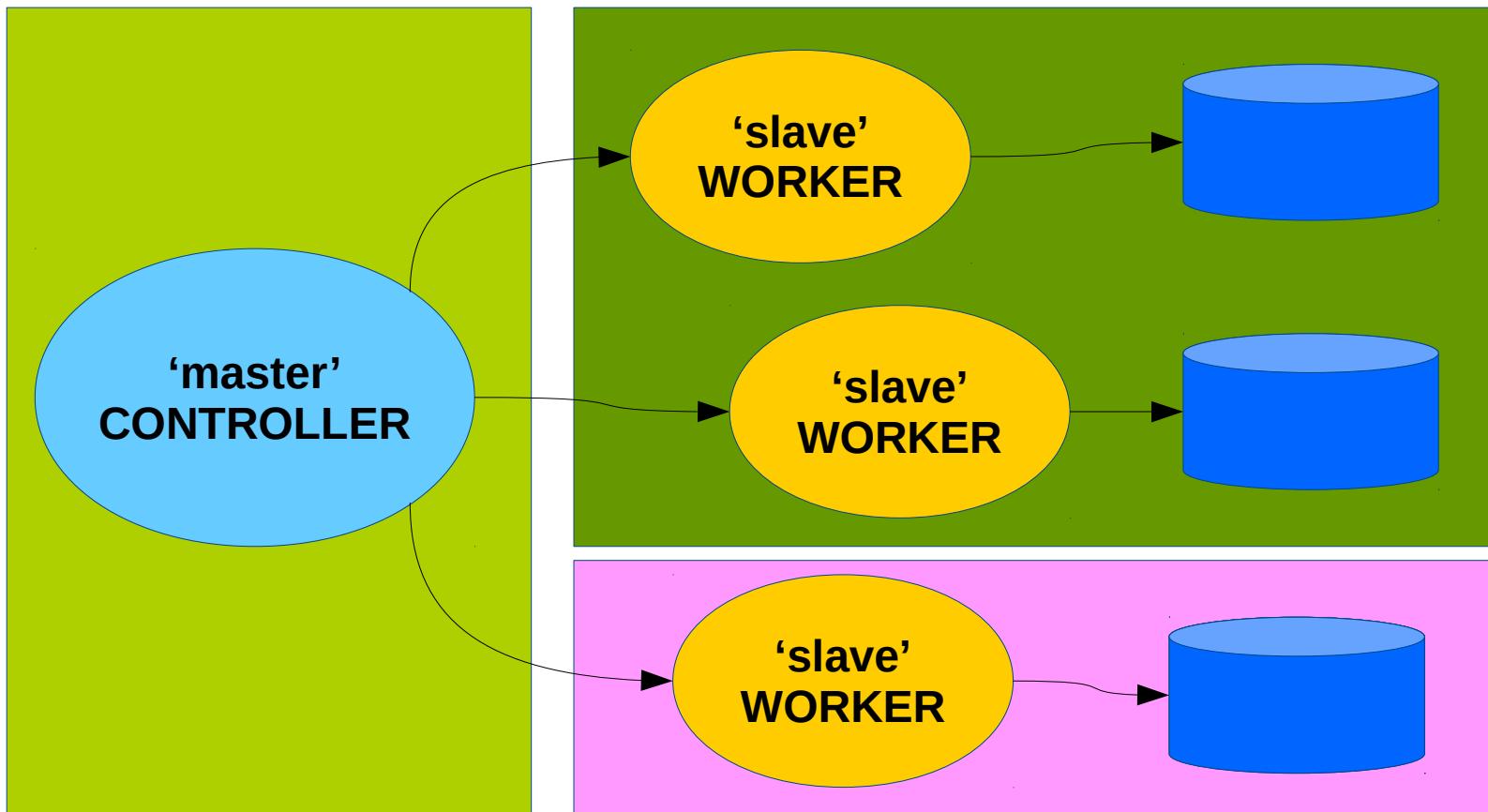
CI overview

- Typical CI on a single machine



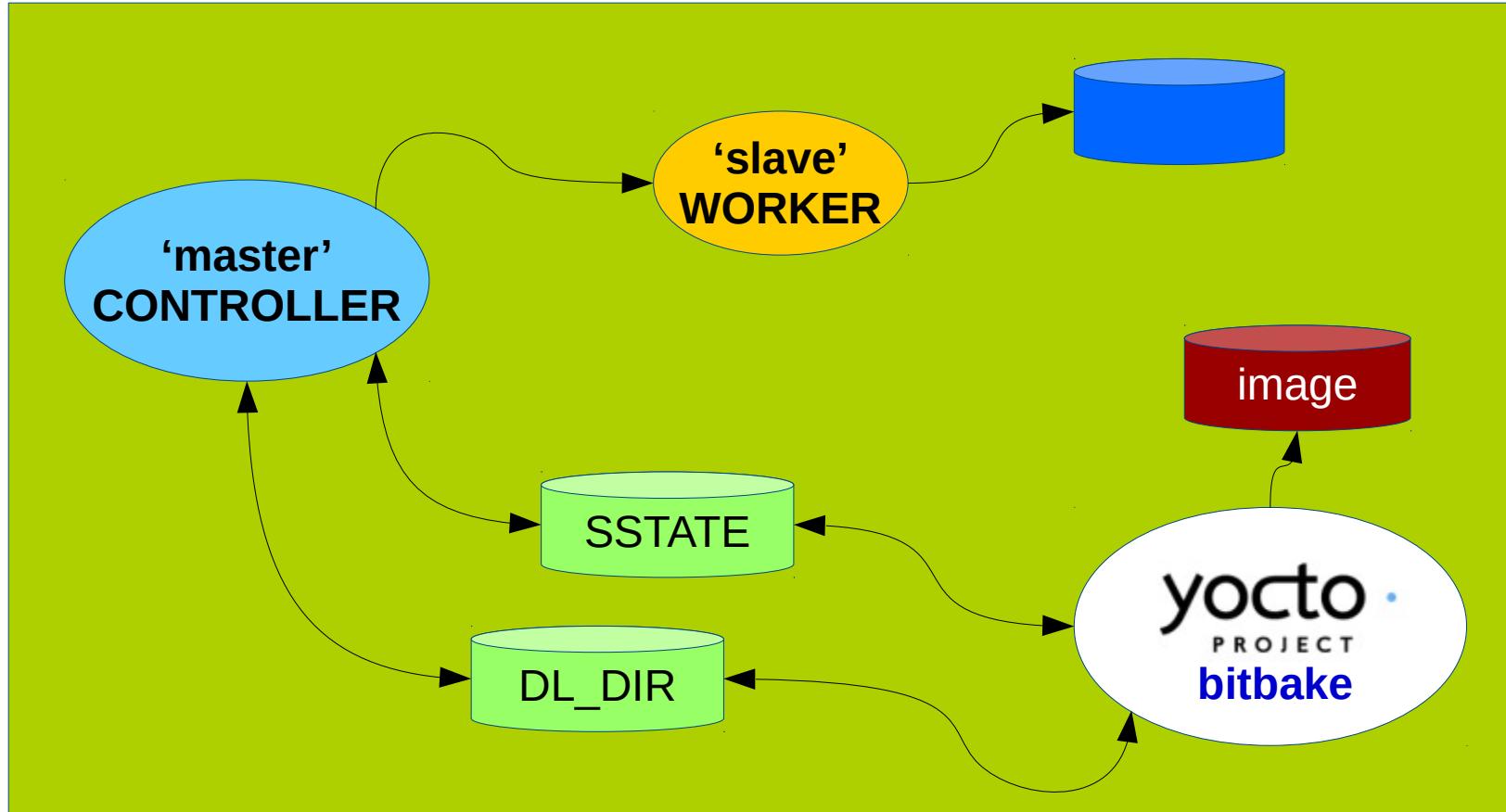
CI overview

- Typical CI on a distributed system



Our goal

- Speed Yocto builds by populating premirrors with Autobuilder2



Autobuilder overview

yocto-autobuilder2



yocto-autobuilder-helper



Autobuilder history *

- **Creation of Autobuilder**
 - The autobuilder started life as something OpenedHand used for testing Poky linux.
- **Yocto-autobuilder**
 - It became "yocto-autobuilder" under Beth's stewardship in December 2012 when it was totally re-implemented.
- **Autobuilder2**
 - In February 2018 it was rewritten again, in particular to move from the long obsolete "buildbot eight" codebase to the "buildbot nine" one but also to fix many long running issues and get back to using an upstream codebase.



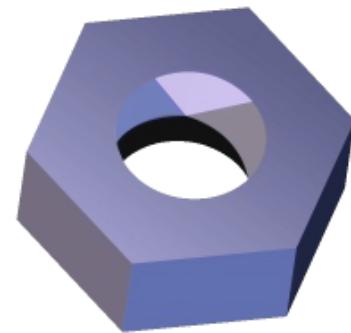
* Thanks to Richard Purdie who provided these information

People behind Autobuilder *

- **Project Autobuilder**
 - Richard Purdie, Elizabeth Flanagan, Joshua Lock as well as contributions from Tracy Graydon, Anibal Limón and Bill Randle.
- **Project Autobuilder2**
 - Richard Purdie and Joshua Lock.
 - Michael Halstead is the project sysadmin who maintains the infrastructure it all runs on top of.

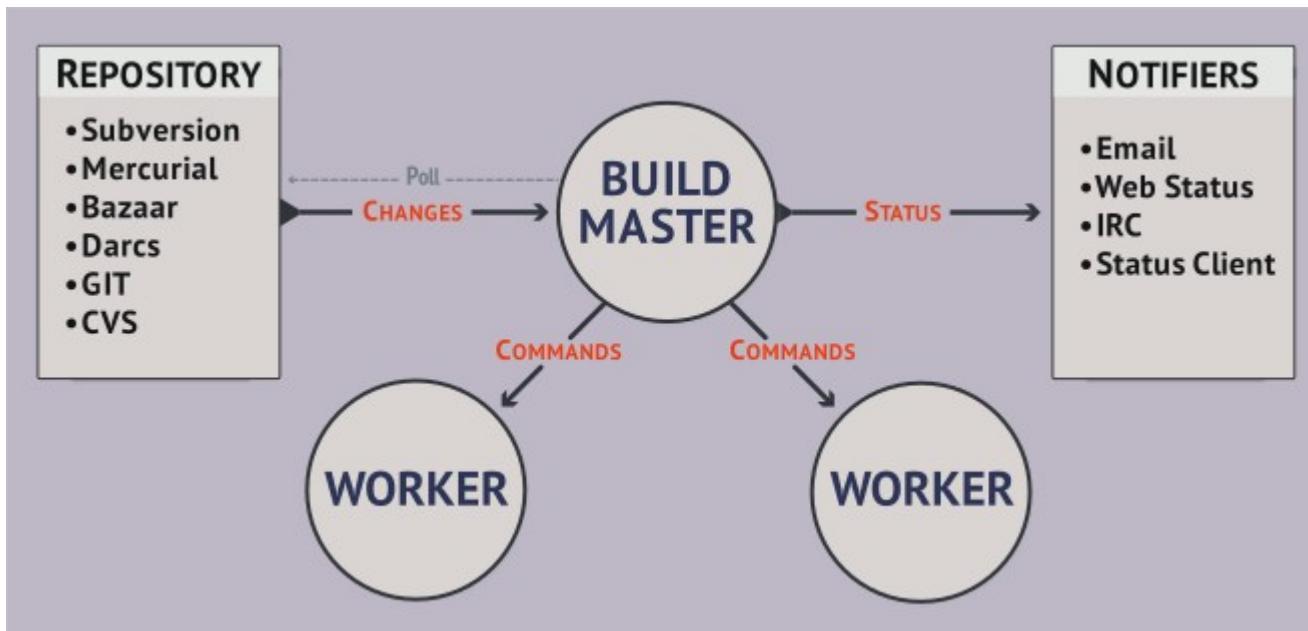
** Thanks to Richard Purdie who provided these information*

Buildbot, a CI framework for Python



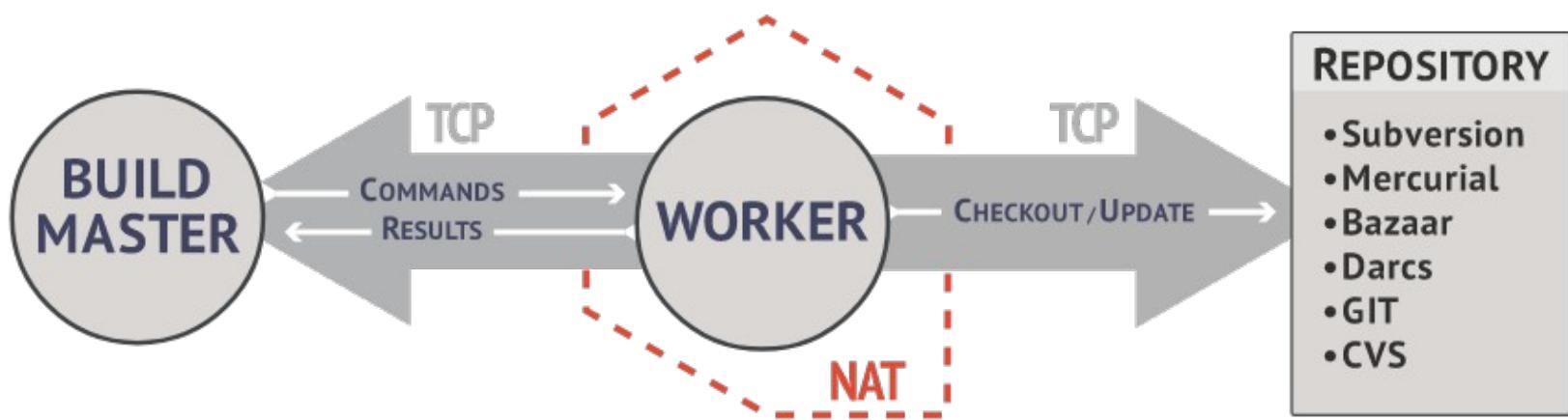
Buildbot basics

- Buildbot is a job scheduling system
 - it queues jobs, executes the jobs when the required resources are available, and reports the results

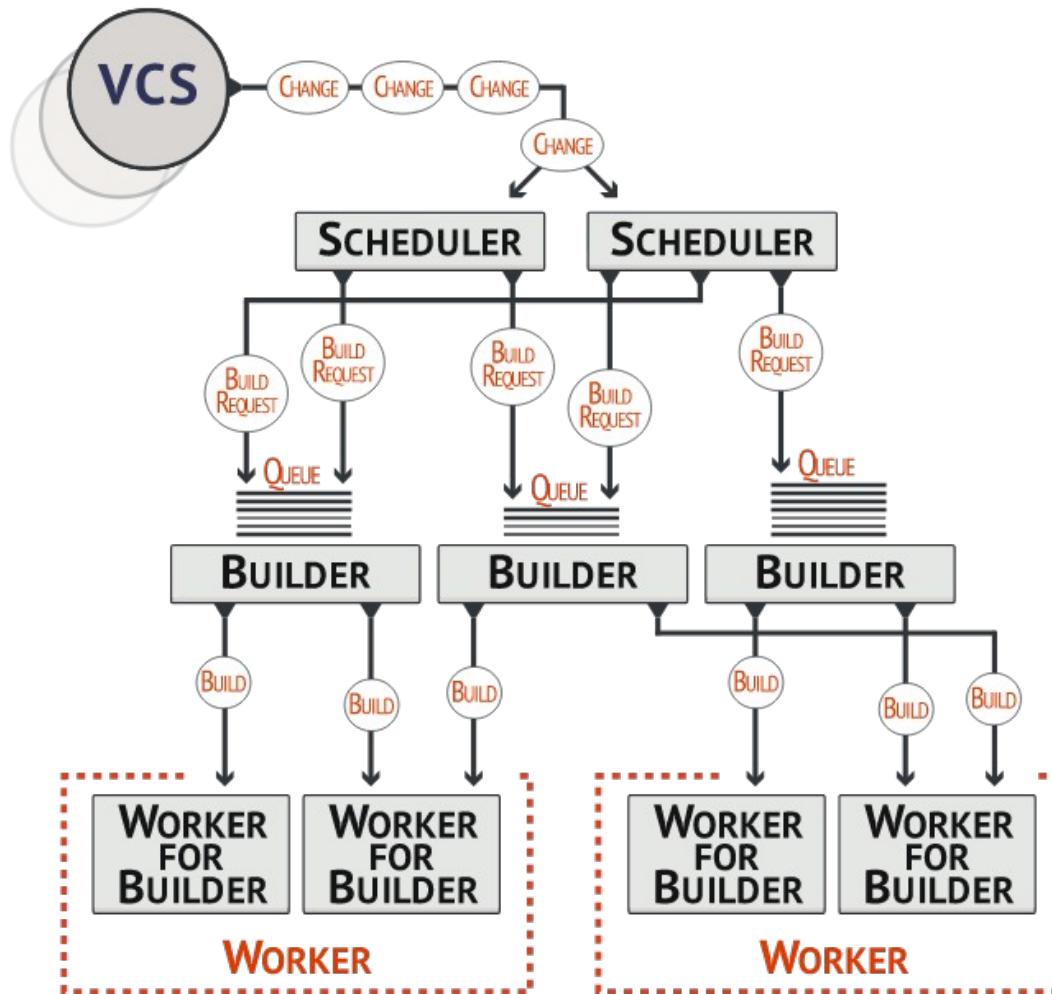


Buildbot basics

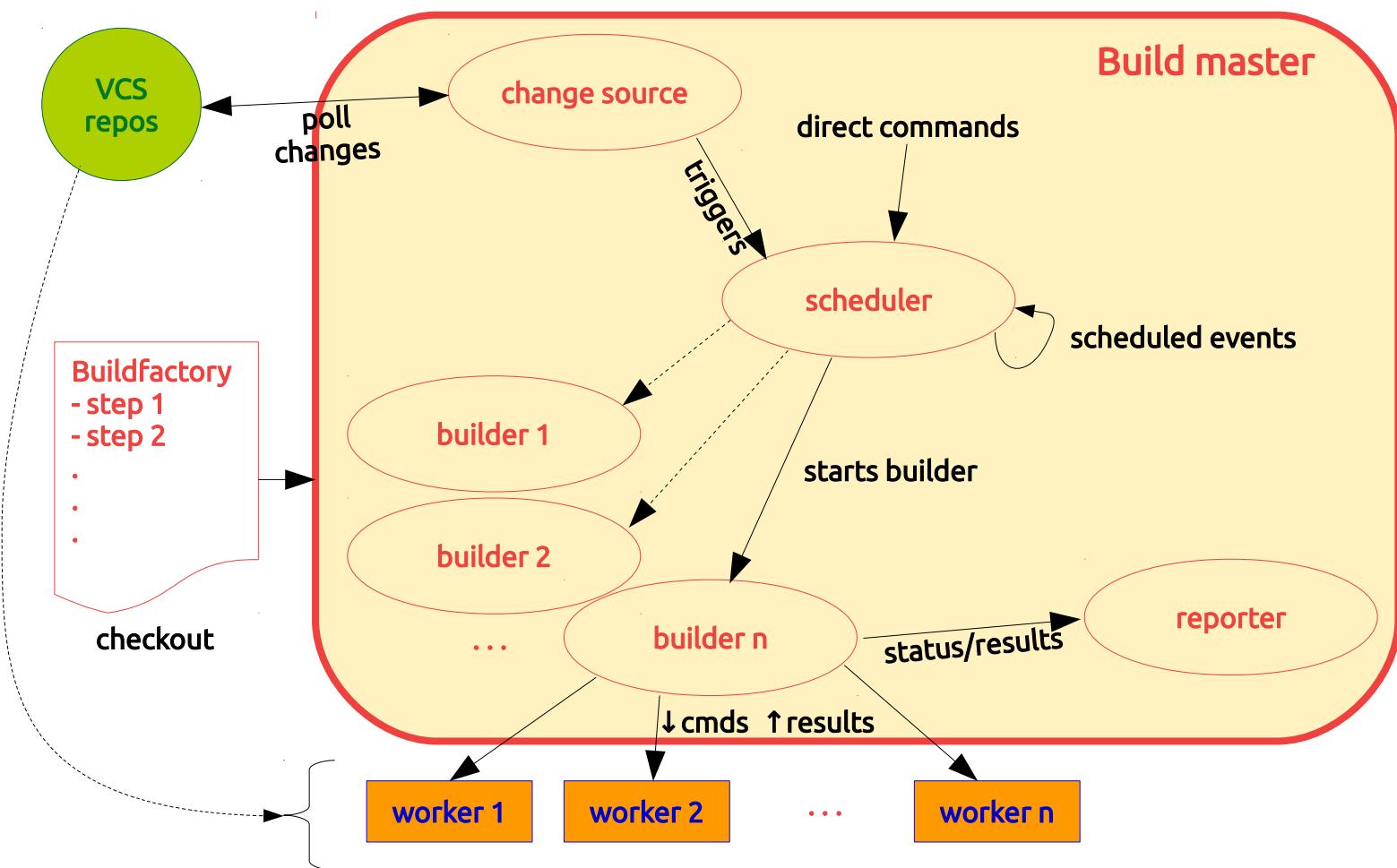
- Workers are typically run on separate machines



Buildbot basics



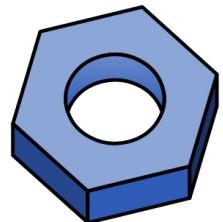
What happens inside the master



* artwork by Mauro Salvini

Buildbot installation

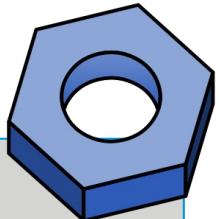
- **On a native system**
 - Probably the fastest solution
- **In a Python sandbox**
 - Isolates it from the host system
 - Using *pip*
- **In a Docker container**
 - Isolates it from the host system



<https://docs.buildbot.net/2.4.0/full.html>

Buildbot installation (in a Python sandbox) [1/3]

- Create a sandbox



```
mkdir abot-sandbox  
cd abot-sandbox  
  
python3 -m venv sandbox  
source sandbox/bin/activate
```

- Install master

```
pip install --upgrade pip  
pip install 'buildbot[bundle]'
```

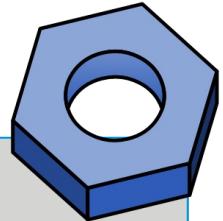
- Install worker

```
pip install --upgrade pip  
pip install buildbot-worker
```

Buildbot installation (in a Python sandbox) [2/3]

- Create the master

```
buildbot create-master master  
mv master/master.cfg.sample master/master.cfg
```

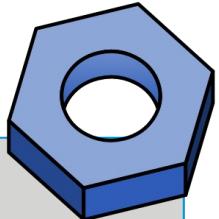


- Create the worker

```
pip install setuptools-trial  
buildbot-worker create-worker worker localhost example-worker pass
```

Buildbot installation (in a Python sandbox) [3/3]

- Content of the sandbox



```
(sandbox) koan@amonra:~/abot-sandbox$ tree -L 2
.
├── master
│   ├── buildbot.tac
│   ├── master.cfg
│   └── state.sqlite
└── sandbox
    ├── bin
    ├── include
    ├── lib
    ├── lib64 -> lib
    ├── pip-selfcheck.json
    ├── pyvenv.cfg
    └── share
└── worker
    ├── buildbot.tac
    └── info

```

→ `c['workers'] = [worker.Worker("example-worker", "pass")] (*)`

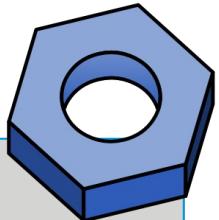
→ `workername = 'example-worker' (*)`

(*) <ftp://ftp.koansoftware.com/public/opensource/buildbot/>

Buildbot execution

- Execution of master

```
buildbot start master
```



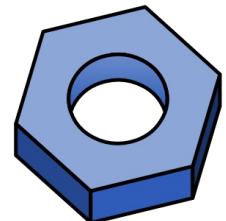
- Control of the build system (using your browser)

`http://localhost:8010/`

The screenshot shows the buildbot web interface at `http://localhost:8010/`. The left side features a dark sidebar with navigation links: Home, Grid View, Waterfall View, Console View, Builds, About, and Settings. The main content area is titled "Hello World CI" and displays a welcome message: "Welcome to buildbot", "0 builds running currently", and "0 recent builds".

Buildbot

- To be continued in a dedicated session...
- Now let's have a look at Autobuilder



Autobuilder2



Buildbot vs. Autobuilder2 lexicon



Buildbot	Autobuilder2
Master	Controller
Worker	Worker

Autobuilder2 installation



- After you created the sandbox
- Create the master and worker directories

```
buildbot create-master -r yocto-controller
```

```
buildbot-worker create-worker -r /  
    --umask=0o22 yocto-worker localhost example-worker pass
```

- **yocto-controller** is the directory for master
- **--umask** sets the proper permissions
- **yocto-worker** is the directory for worker
- **localhost** is the network address of the master
- **example-worker** is the name of the worker
- **pass** is the password (master.cfg)

Autobuilder2 installation



- **Clone yocto-autobuilder2**

```
cd yocto-controller  
git clone https://git.yoctoproject.org/git/yocto-autobuilder2 yoctoabb  
ln -rs yoctoabb/master.cfg master.cfg
```

- **yoctoabb** is the mandatory Autobuilder2 directory name

- **Clone yocto-autobuilder-helper**

```
cd ..  
git clone https://git.yoctoproject.org/git/yocto-autobuilder-helper
```

Autobuilder2 tree



- Content of the Autobuilder2 sandbox

```
(sandbox) koan@amonra:~/ab2-sandbox$ tree -L 3
```

* Simplified tree list

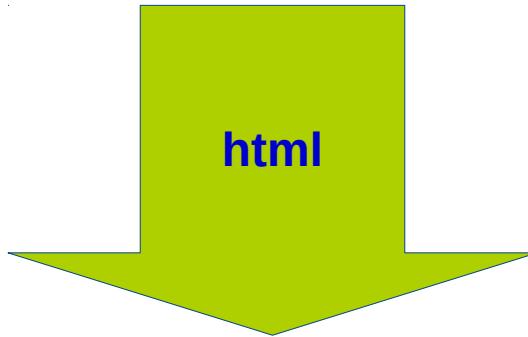
```
.
├── autobuilder
├── git
└── sandbox
    ├── yocto-autobuilder-helper
    ├── yocto-controller
    │   └── yoctoabb
    │       └── master.cfg
    └── yocto-worker
        └── buildbot.tac
```

Autobuilder2 installation



- Complete installation instructions

<http://git.yoctoproject.org/cgit.cgi/yocto-autobuilder2/tree/README-Guide.md>



<ftp://ftp.koansoftware.com/public/talks/YoctoSummit-2019/autobuilder2/Autobuilder2-README-Guide.pdf>

Autobuilder2

Autobuilder default configuration

Autobuilder2 configuration



- **Ab2 default configuration**
 - The default configuration of Ab2 uses a lot of **workers** to generate **images** for several **MACHINES**

```
# List of workers in the cluster
workers_ubuntu = ["ubuntu1904-ty-1", "ubuntu1804-ty-1", "ubuntu1804-ty-2", "ubuntu1804-ty-3", "ubuntu1604-ty-1"]
workers_centos = ["centos7-ty-1", "centos7-ty-2", "centos7-ty-3", "centos7-ty-4"]
workers_fedora = ["fedora29-ty-1", "fedora30-ty-1", "fedora30-ty-2"]
workers_debian = ["debian8-ty-1", "debian9-ty-2", "debian10-ty-1", "debian10-ty-2", "debian10-ty-3"]
workers_opensuse = ["tumbleweed-ty-1", "tumbleweed-ty-2", "tumbleweed-ty-3", "opensuse151-ty-1", "opensuse150-ty-1"]
```

Autobuilder2 official website

The screenshot shows the Autobuilder2 interface. On the left is a dark sidebar with a navigation menu:

- Buildbot (selected)
- Profiler
- Home
- Grid View
- Yocto Console View
- Waterfall View
- > Builds
- About
- Settings

The main content area has a header "Buildbot Home" and a "Anonymous" dropdown. A yellow box highlights the URL "https://autobuilder.yoctoproject.org/typhoon/". Below it, the text "Welcome to buildbot" and "11 builds running currently" is displayed. A list of builds is shown in a table:

Build ID	Status	Time Started
buildperf-centos7/1415	building	1:38:17
buildperf-ubuntu1604/1409	building	1:53:20
qemumips64/1145	building	5:06:05
qemuarm64-ptest/237	building	5:06:06
qemuarm64-ltp/225	building	5:06:07
qa-extras/1150	building	5:06:10
oe-selftest-ubuntu/436	building	5:06:12
oe-selftest-fedora/440	building	5:06:13

Autobuilder2 website navigation

The screenshot shows the Autobuilder2 website interface. On the left, a sidebar menu lists various navigation options: Profiler, Home, Grid View, Yocto Console View (which is circled in red), Waterfall View, > Builds, About, and Settings. The main content area is titled "Buildbot" and "Yocto Console View". It displays a grid of build status cards for different configurations. The columns represent build types: a-full, a-quick, beaglebone, beaglebone-alt, build-appliance, buildperf-centos7, buildperf-ubuntu1604, buildtools, check-layer, edgerouter, edgerouter-alt, genericx86, genericx86-64, genericx86-64-alt, genericx86-64-64, genericx86-64-64-alt, meta-mingw, mpc315e, and mr. The rows represent build branches: master, Errors, WikiLog, and master-next. Each card contains a green box with a build ID (e.g., 744, 1159, 51, 1376, 1408, 1402, 1387, 1146, 1145, 1145, 1151, 49, 1147, 1153, 51, 49, 1147, 1144) and a yellow box with an error count (e.g., 431, 1160, 52, 1379, 1414, 1408, 1390, 1149, 1148, 33, 1148, 1154, 52, 52, 1148, 1147). A red circle highlights the "Yocto Console View" link in the sidebar and the "1160" error count in the master-next row.

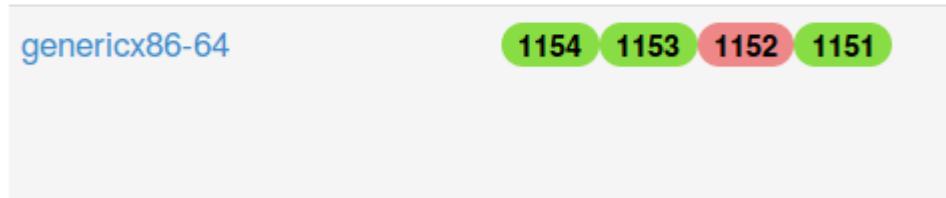
Configuration	Branch	Build ID	Error Count
a-full	master	744	431
	Errors	1159	1160
	WikiLog	51	52
a-quick	master	1376	1379
	Errors	1408	1414
	WikiLog	1402	1408
beaglebone	master	1387	1388
	Errors	1146	1147
	WikiLog	1145	1148
beaglebone-alt	master	1146	1146
	Errors	1151	1152
	WikiLog	49	50
build-appliance	master	1147	1147
	Errors	1153	1153
	WikiLog	51	51
buildperf-centos7	master	1145	1148
	Errors	1151	1154
	WikiLog	49	52
buildperf-ubuntu1604	master	1147	1148
	Errors	1153	1148
	WikiLog	51	51
buildtools	master	1145	1146
	Errors	1151	1146
	WikiLog	49	51
check-layer	master	1146	1146
	Errors	1151	1146
	WikiLog	49	51
edgerouter	master	1147	1147
	Errors	1153	1147
	WikiLog	51	51
edgerouter-alt	master	1145	1145
	Errors	1151	1145
	WikiLog	49	51
genericx86	master	1147	1147
	Errors	1153	1147
	WikiLog	51	51
genericx86-64	master	1145	1145
	Errors	1151	1145
	WikiLog	49	51
genericx86-64-alt	master	1147	1147
	Errors	1153	1147
	WikiLog	51	51
genericx86-64-64	master	1145	1145
	Errors	1151	1145
	WikiLog	49	51
genericx86-64-64-alt	master	1147	1147
	Errors	1153	1147
	WikiLog	51	51
meta-mingw	master	1145	1145
	Errors	1151	1145
	WikiLog	49	51
mpc315e	master	1147	1147
	Errors	1153	1147
	WikiLog	51	51
mr	master	1145	1145
	Errors	1151	1145
	WikiLog	49	51

Autobuilder2 website navigation

The screenshot shows the Autobuilder2 website interface. The left sidebar has a dark blue background with white text and icons. It includes links for Profiler, Home, Grid View, Yocto Console View, Waterfall View, Builds (which is the current page, indicated by a red oval), Builders (also highlighted with a red oval), Pending Buildrequests, Last Changes, Build Masters, Schedulers, Workers, About, and Settings. The main content area has a light gray background. At the top, it says "Buildbot" and "Buildbot Builds / Builders". On the right, it says "Anonymous". The main table lists builders with their names, build counts, and worker status grids. A red circle highlights the build number 1159 for the beaglebone builder.

Builder Name	Builds	Tags	Workers
a-full	431 430		1 2 3 4 5 6 9 10 11 13 15 16 17 22 23 24 25 26 27 29 30 31
a-quick	744		1 2 3 4 5 6 9 10 11 13 15 16 17 22 23 24 25 26 27 29 30 31
beaglebone	1160 1159 1158		1 2 3 4 5 6 9 10 11 13 15 16 17 22 23 24 25 26 27 29 30 31
beaglebone-alt	52 51 50 49		1 2 3 4 5 6 9 10 11 13 15 16 17 22 23 24 25 26 27 29 30 31
bringup			1 2 3 4 5 6 9 10 11 13 15 16 17 22 23 24 25 26 27 29 30 31
build-appliance	1379 1378 1377 1376		1 2 3 4 5 6 9 10 11 13 15 16 17 22 23 24 25 26 27 29 30 31
buildperf-centos7	1415 1414 1413 1412 1411 1410 1409 1408	19	
buildperf-ubuntu1604	1409 1408 1407 1406 1405 1404 1403 1402	20	
buildtools	1390 1389 1388 1387		1 2 3 4 5 6 9 10 11 13 15 16 17 22 23 24 25 26 27 29 30 31
check-layer	1149 1148 1147 1146		1 2 3 4 5 6 9 10 11 13 15 16 17 22 23 24 25 26 27 29 30 31

Autobuilder2 - builds



Autobuilder2 - workers

beaglebone

1160 1159 1158

beaglebone-alt

52 51 50 49

bringup

25 26 27 29 30

31

1 2 3 4 5 6

9 10 11 13 15

16 17 22 23 24

25 26 27 29 30

31

1 2 3 4 5 6

9 10 11 13 15

16 17 22 23 24

25 26 27 29 30

31

1 2 3 4 5 6

9 10 11 13 15

Autobuilder2 – worker details

Buildbot

Buildbot Workers / ubuntu1804-ty-1 Actions... Anonymous

State	Masters	WorkerName	Recent Builds	Admin	Host	Version
idle	1	ubuntu1804-ty-1	qemux86-64-alt/52 pkgman-rpm-non-rpm/1144 no-x11/1148 meta-mingw/1147 non-gpl3/1144 meta-mingw/1145 musl-qemux86/1147	Michael Halstead <mhalstead at linuxfoundation.org>	Ubuntu 18.04 LTS worker 1	2019.07.19

Builds:

Builder	#	Started At	Duration	Owners	Worker	Status
qemux86-64-alt	52	5 hours ago	2 hours			build successful
pkgman-rpm-non-rpm	1144	5 hours ago	an hour			build successful
no-x11	1148	13 hours ago	9 minutes			build successful
meta-mingw	1147	13 hours ago	12 minutes			build successful
non-gpl3	1144	a day ago	20 minutes			build successful
meta-mingw	1145	2 days ago	13 minutes			build successful

NAVIGATION

- Profiler
- Home
- Grid View
- Yocto Console View
- Waterfall View
- > Builds
 - Builders
 - Pending Buildrequests
 - Last Changes
 - Build Masters
 - Schedulers
 - Workers
- About
- Settings

Autobuilder2 – build details

Build summary

beaglebone/1160		2:57:18 build successful	SUCCESS
0	worker_preparation		5 s worker ready
1	⌚ Clobber build dir	2 s '/home/pokybuild/yocto-autobuilder-helper/janitor/clobberdir /home/pokybuild/yocto-worker/beaglebone/'	
2	⌚ Fetch yocto-autobuilder-helper		3 s update
3	SetProperties		1 s Properties Set
4	⌚ Write main layerinfo.json		1 s 'printf '{ ...'
5	⌚ 5 s '/home/pokybuild/yocto-worker/beaglebone/yocto-autobuilder-helper/scripts/shared-repo-unpack /home/pokybuild/yocto-worker/beaglebone/layerinfo.json ...'		
	⌚ Unpack shared repositories		
6	⌚ Set build revision		1 s property 'yp_build_revision' set
7	⌚ Set build branch		1 s property 'yp_build_branch' set
8	⌚ run-config	2:56:56 '/home/pokybuild/yocto-worker/beaglebone/yocto-autobuilder-helper/scripts/run-config beaglebone ...'	

Autobuilder2 – build details

8 ✓ run-config

stdio

step1b

step1c

step2b

warnings

errors

2:56:56 '/home/pokybuild/yocto-worker/beaglebone/yocto-autobuilder-helper/scripts/run-config beaglebone ...'

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[view all 74 lines](#) [download](#)

[view all 1764 lines](#) [download](#)

[view all 0 line](#) [download](#)

[view all 0 line](#) [download](#)

Autobuilder2 – build details

Buildbot

Builders / beaglebone / 1160 / run-config / step1b

```
24830 NOTE: Running task 9599 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/images/24831 NOTE: Running task 9600 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/images/24832 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_image_qa: Started24833 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_image_qa: Succeeded24834 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_write_qemuboot_conf: Started24835 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_write_qemuboot_conf: Succeeded24836 NOTE: Running task 9601 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/images/24837 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_image: Started24838 NOTE: recipe core-image-sato-sdk-1.0-r0: task do_image_jffs2: Succeeded24839 NOTE: Running task 9602 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/images/24840 NOTE: recipe core-image-sato-sdk-1.0-r0: task do_image_complete: Started24841 NOTE: recipe core-image-sato-1.0-r0: task do_populate_sdk: Succeeded24842 NOTE: recipe core-image-sato-sdk-1.0-r0: task do_image_complete: Succeeded24843 NOTE: Running task 9603 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/images/24844 NOTE: recipe core-image-sato-sdk-1.0-r0: task do_populate_lic_deploy: Started24845 NOTE: recipe core-image-sato-sdk-1.0-r0: task do_populate_lic_deploy: Succeeded24846 NOTE: Running noexec task 9604 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/24847 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_image: Succeeded24848 NOTE: Running task 9605 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/images/24849 NOTE: Running task 9606 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/images/24850 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_rootfs_wicenv: Started24851 NOTE: Running task 9607 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/images/24852 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_rootfs_wicenv: Succeeded24853 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_image_jffs2: Started24854 NOTE: Running task 9608 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/images/24855 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_image_tar: Started24856 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_image_wic: Started24857 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_image_tar: Succeeded24858 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_image_wic: Succeeded24859 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_image_jffs2: Succeeded24860 NOTE: Running task 9609 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/images/24861 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_image_complete: Started24862 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_image_complete: Succeeded24863 NOTE: Running task 9610 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/images/24864 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_populate_lic_deploy: Started24865 NOTE: recipe core-image-sato-sdk-pitest-1.0-r0: task do_populate_lic_deploy: Succeeded24866 NOTE: Running noexec task 9611 of 9611 (/home/pokybuild/yocto-worker/beaglebone/build/meta/recipes-sato/24867 NOTE: Tasks Summary: Attempted 9611 tasks of which 1901 didn't need to be rerun and all succeeded.
```

Autobuilder2 – build details

Buildbot

Buildbot About

NAVIGATION

- Profiler
- Home
- Grid View
- Yocto Console View
- Waterfall View
- > Builds
- About
- Settings

 About this buildbot running for Yocto Autobuilder: typhoon

- Python version: 3.5.3
- Buildbot version: 2.3.1
- Twisted version: 19.2.1

Configuration

buildbot-www is configured using

auth	
user	
buildbotURL	https://autobuilder.yoctoproject.org/typhoon/
avatar_methods	
port	8010
multiMaster	false
authz	
plugins	
logfileName	http.log
titleURL	https://autobuilder.yoctoproject.org/typhoon/
title	Yocto Autobuilder: typhoon
versions	[Python, 3.5.3], [Buildbot, 2.3.1], [Twisted, 19.2.1]

Autobuilder2

Autobuilder custom ‘lighter’ configuration

Autobuilder2 reduced configuration



- **Reduce complexity**
 - The goal is to setup a configuration for an **image** for a single **MACHINE** only
 - This will help yo strengthen the deployments thanks to recurring builds, tipically nightly

Autobuilder2 reduced configuration



- Files to be modified

```
├── yocto-autobuilder-helper
│   └── config.json
└── yocto-controller
    └── yoctoabb
        ├── builders.py
        ├── config.py
        ├── master.cfg
        └── schedulers.py
└── yocto-worker
    └── buildbot.tac
```

Autobuilder2 configuration



- In **yocto-autobuilder-helper**
 - Edit [yocto-autobuilder-helper/config.json](#)

```
"BASE_HOMEDIR" : "/home/koan/ab2-sandbox",
"BASE_SHAREDDIR" : "${BASE_HOMEDIR}/autobuilder",
"BASE_PUBLISHDIR" : "${BASE_HOMEDIR}/downloads",
```

- In **yocto-controller**
 - Edit [yocto-controller/yoctoabb/master.cfg](#)

```
c['title'] = "KOAN lite Yocto Autobuilder"
c['titleURL'] = "http://localhost:8010/"
c['buildbotURL'] = "http://localhost:8010/"
```

Autobuilder2 configuration



- In **yocto-controller** (again)
 - Edit `yocto-controller/yoctoabb/config.py`

```
workers_koan = ["example-worker"]
workers = workers_koan
all_workers = workers,
```

```
sharedrepodir = "/home/koan/ab2-sandbox/repos"
publish_dest = "/home/koan/ab2-sandbox/pub"
```

- Specify the helper directory

```
repos = {
    "yocto-autobuilder-helper":
        ["file:///home/koan/ab2-sandbox/yocto-autobuilder-helper",
         "master"],
```

Autobuilder2 'lite' customized

http://localhost:8010/

The screenshot shows the Autobuilder2 'lite' customized web interface. On the left is a dark blue sidebar navigation menu with the following items:

- Buildbot (selected)
- Home
- Grid View
- Waterfall View
- Yocto Console View
- > Builds
- About
- Settings

The main content area has a light gray background. At the top, it says "Buildbot" and "Builders / koanbuilder / 2". Below this is a large "Welcome to buildbot" message. It indicates "1 build running currently" and shows a box for "koanbuilder/2 building". It also displays "1 recent builds" with a box for "koanbuilder/1" which failed with the message "failed '/home/koan/ab2-sandbox/yocto-... 3:26'".

Autobuilder2 'lite' customized

The screenshot shows the Autobuilder2 'lite' customized interface. On the left is a dark blue sidebar navigation menu with the following items:

- Home
- Grid View
- Waterfall View
- Yocto Console View
- > Builds
- Builders** (highlighted)
- Pending Buildrequests
- Last Changes
- Build Masters
- Schedulers
- Workers
- About
- Settings

The main content area is titled "Buildbot Builders / koanbuilder / 2". It includes a search bar, a navigation bar with "Previous" and "Next" buttons, and a table with the following columns:

Builder Name	Builds	Tags	Workers
a-full			1
a-quick			1
koanbuilder	2 1		1

A red oval highlights the "koanbuilder" row. A checkbox labeled "Show old builders" is located below the table.

Autobuilder2 to speed up Yocto build



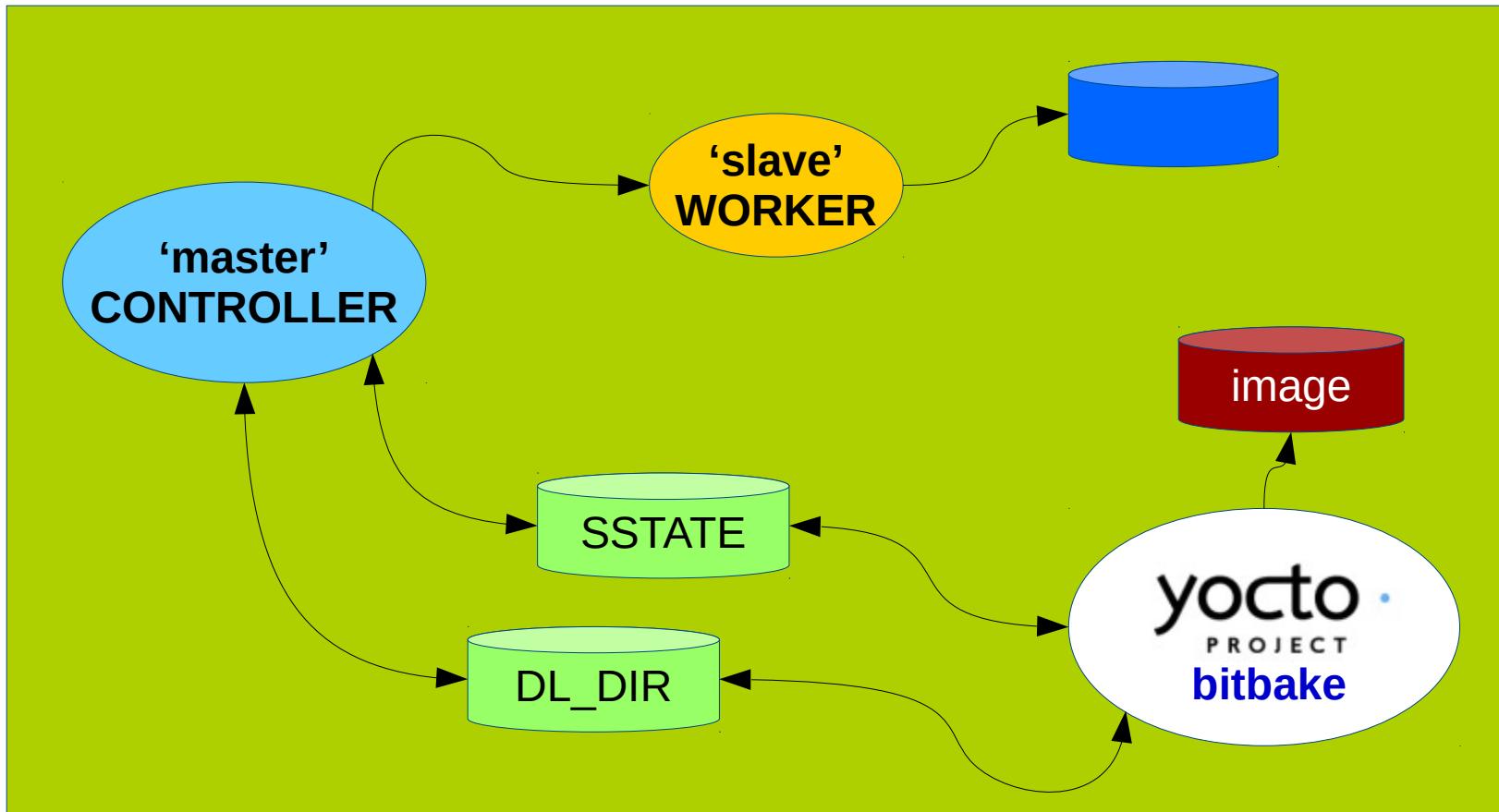
- Share the artefacts with Yocto
 - Edit `local.conf`
 - Share downloads

```
PREMIRRORS_prepend = "\\\n \
git://.* file:///home/koan/ab2-sandbox/autobuilder/current_sources/ \n \
ftp://.* file:///home/koan/ab2-sandbox/autobuilder/current_sources/ \n \
http://.* file:///home/koan/ab2-sandbox/autobuilder/current_sources/ \n \
https://.* file:///home/koan/ab2-sandbox/autobuilder/current_sources/ \n \
"
```

- Share `SSTATE`

```
SSTATE_MIRRORS = "file://.* \
file:///home/koan/ab2-sandbox/autobuilder/pub/sstate/PATH"
```

Autobuilder2 to speed up Yocto build



Questions?



<https://yoctoproject.org>



<https://koansoftware.com>