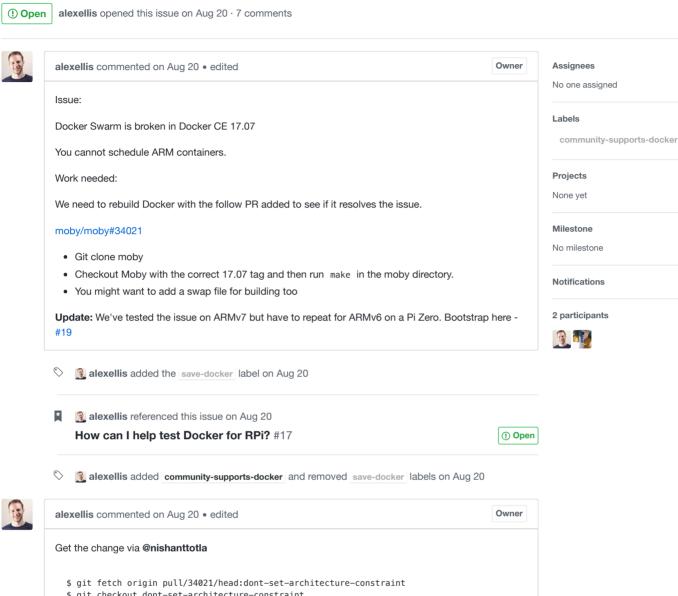
alexellis / docker-arm

Swarm is Broken on Docker CE after 17.05 - no services are scheduled. #14

New issue



\$ git checkout dont-set-architecture-constraint Open a new tux session and make sure you have tuned-up your RPi - #16. Now invoke a build via make build



alexellis commented on Aug 20

Owner

Folks you will need a Docker version here to start with, there's 17.06 in the stretch / edge repo - follow instructions here - https://docs.docker.com/engine/installation/linux/docker-ce/debian/

Change stable to edge in the apt command. Follow instructions for armhf



alexellis commented on Aug 20

Owner

This is as far as I got with make tgz

Successfully tagged docker-dev:dont-set-architecture-constraint docker run --rm -i --privileged -e DOCKER_CROSSPLATFORMS -e BUILD_APT_MIRROR -e BUILDFLAGS -e KEEPBUNDLE -e DOCKER_BUILD_ARGS -e

```
DOCKER BUILD GOGC -e DOCKER BUILD PKGS -e DOCKER BASH COMPLETION PATH -e
DOCKER_CLI_PATH -e DOCKER_DEBUG -e DOCKER_EXPERIMENTAL-
e DOCKER GITCOMMIT -e DOCKER GRAPHDRIVER -e DOCKER INCREMENTAL BINARY -e DOCKER PORT -e
DOCKER_REMAP_ROOT -e DOCKER_STORAGE_OPTS
-e DOCKER USERLANDPROXY -e TESTDIRS -e TESTFLAGS -e TIMEOUT -e HTTP PROXY -e HTTPS PROXY
-e NO_PROXY -e http_proxy -e https_proxy
 -e no_proxy -v "/home/pi/docker/bundles:/go/src/github.com/docker/docker/bundles" -v
/home/pi/docker/.git:/go/src/github.com/doc
ker/docker/.qit -v "dockerdev-qo-pkq-cache-qopath:/qo/pkq" -v "dockerdev-qo-pkq-cache-
goroot-linux_amd64:/usr/local/go/pkg/linux_
amd64" -v "dockerdev-go-pkg-cache-goroot-
linux_amd64_netgo:/usr/local/go/pkg/linux_amd64_netgo"
                                                         -t "docker-dev:dont-set-archit
ecture-constraint" hack/make.sh dynbinary binary cross tgz
 ---> Making bundle: dynbinary (in bundles/17.06.0-dev/dynbinary)
Building: bundles/17.06.0-dev/dynbinary-daemon/dockerd-17.06.0-dev
Created binary: bundles/17.06.0-dev/dynbinary-daemon/dockerd-17.06.0-dev
---> Making bundle: binary (in bundles/17.06.0-dev/binary)
Building: bundles/17.06.0-dev/binary-daemon/dockerd-17.06.0-dev
Created binary: bundles/17.06.0-dev/binary-daemon/dockerd-17.06.0-dev
Copying nested executables into bundles/17.06.0-dev/binary-daemon
---> Making bundle: cross (in bundles/17.06.0-dev/cross)
Created symlinks: bundles/17.06.0-dev/cross/linux/arm/docker-containerd bundles/17.06.0-
dev/cross/linux/arm/docker-containerd-ctr
bundles/17.06.0-dev/cross/linux/arm/docker-containerd-ctr.md5 bundles/17.06.0-
dev/cross/linux/arm/docker-containerd-ctr.sha256 b
undles/17.06.0-dev/cross/linux/arm/docker-containerd-shim bundles/17.06.0-
dev/cross/linux/arm/docker-containerd-shim.md5 bundles/
17.06.0-dev/cross/linux/arm/docker-containerd-shim.sha256 bundles/17.06.0-
dev/cross/linux/arm/docker-containerd.md5 bundles/17.06
.0-dev/cross/linux/arm/docker-containerd.sha256 bundles/17.06.0-
dev/cross/linux/arm/docker-init bundles/17.06.0-dev/cross/linux/a
rm/docker-init.md5 bundles/17.06.0-dev/cross/linux/arm/docker-init.sha256
bundles/17.06.0-dev/cross/linux/arm/docker-proxy bundle
s/17.06.0-dev/cross/linux/arm/docker-proxy.md5 bundles/17.06.0-
dev/cross/linux/arm/docker-proxy.sha256 bundles/17.06.0-dev/cross/
linux/arm/docker-runc bundles/17.06.0-dev/cross/linux/arm/docker-runc.md5
bundles/17.06.0-dev/cross/linux/arm/docker-runc.sha256b
undles/17.06.0-dev/cross/linux/arm/dockerd bundles/17.06.0-dev/cross/linux/arm/dockerd-
17.06.0-dev bundles/17.06.0-dev/cross/linu
x/arm/dockerd-17.06.0-dev.md5 bundles/17.06.0-dev/cross/linux/arm/dockerd-17.06.0-
dev. sha256
Cross building: bundles/17.06.0-dev/cross/linux/amd64
Building: bundles/17.06.0-dev/cross/linux/amd64/dockerd-17.06.0-dev
daemon/graphdriver/overlay2/overlay.go:24:2: no buildable Go source files in
/go/src/github.com/docker/docker/daemon/graphdriver/
guota
daemon/graphdriver/devmapper/deviceset.go:28:2: no buildable Go source files in
/go/src/github.com/docker/docker/pkg/loopback
daemon/apparmor_default.go:9:2: no buildable Go source files in
/go/src/github.com/docker/docker/vendor/github.com/opencontainers
/runc/libcontainer/apparmor
profiles/seccomp/seccomp.go:13:2: no buildable Go source files in
/go/src/github.com/docker/docker/vendor/github.com/seccomp/libs
eccomp-golang
Makefile:164: recipe for target 'tgz' failed
make: *** [tqz] Error 1
```



alexellis commented on Aug 20

Owner

make deb with docker/docker repo:

make[1]: Entering directory '/usr/src/docker'
mkdir -p debian/docker-engine/usr/bin

```
Created binary: bundles/17.06.0-dev/dynbinary-daemon/dockerd-17.06.0-dev

# ./man/md2man-all.sh runs outside the build container (if at all), since we don't have
go-md2man here
make[1]: Leaving directory '/usr/src/docker'
    debian/rules override_dh_auto_test
make[1]: Entering directory '/usr/src/docker'
    ./bundles/17.06.0-dev/dynbinary-daemon/dockerd -v
Docker version 17.06.0-dev, build 5fa6df34d
make[1]: Leaving directory '/usr/src/docker'
    debian/rules binary
dh binary --with=bash-completion --with=systemd
    dh_testroot
    dh_prep
    debian/rules override_dh_auto_install
```

cp -aT "\$(readlink -f bundles/17.06.0-dev/dynbinary-daemon/dockerd)" debian/docker-

```
engine/usr/hin/dockerd
cp -aT /usr/local/bin/docker-proxy debian/docker-engine/usr/bin/docker-proxy
cp -aT /usr/local/bin/docker-containerd debian/docker-engine/usr/bin/docker-containerd
cp -aT /usr/local/bin/docker-containerd-shim debian/docker-engine/usr/bin/docker-
containerd-shim
cp -aT /usr/local/bin/docker-containerd-ctr debian/docker-engine/usr/bin/docker-
containerd-ctr
cp -aT /usr/local/bin/docker-runc debian/docker-engine/usr/bin/docker-runc
cp -aT /usr/local/bin/docker-init debian/docker-engine/usr/bin/docker-init
mkdir -p debian/docker-engine/usr/lib/docker
make[1]: Leaving directory '/usr/src/docker'
   debian/rules override_dh_install
make[1]: Entering directory '/usr/src/docker'
dh install
cp: cannot stat 'debian/tmp/contrib/completion/fish/docker.fish': No such file or
directory
dh_install: cp -a debian/tmp/contrib/completion/fish/docker.fish debian/docker-
engine/usr/share/fish/vendor_completions.d// retur
ned exit code 1
debian/rules:46: recipe for target 'override_dh_install' failed
make[1]: Leaving directory '/usr/src/docker'
make[1]: *** [override_dh_install] Error 2
debian/rules:53: recipe for target 'binary' failed
make: *** [binary] Error 2
dpkg-buildpackage: error: debian/rules binary gave error exit status 2
The command '/bin/sh -c dpkg-buildpackage -uc -us -I.git' returned a non-zero code: 2
  --> Making bundle: .integration-daemon-stop (in bundles/17.06.0-dev/build-deb)
+++++ cat bundles/17.06.0-dev/build-deb/docker.pid
++++ kill 3812
Makefile:130: recipe for target 'deb' failed
make: *** [deb] Error 1
```



```
Owner
alexellis commented on Aug 21
Using the moby/moby PR and make binary I was able to schedule a swarm service:
  $ sudo systemctl stop docker
  $ sudo cp bundles/latest/binary-daemon/* /usr/bin/
  $ sudo systemctl start docker
  $ docker version
                                                                                    Client:
   Version:
                 17.06.1-ce
   API version: 1.30
   Go version:
                 go1.8.3
   Git commit:
                 874a737
                 Thu Aug 17 23:02:18 2017
   Built:
   OS/Arch:
                 linux/arm
  Server:
   Version:
                 17.06.0-dev
   API version: 1.31 (minimum version 1.12)
   Go version:
                 go1.8.3
   Git commit:
                 5fa6df34d
                 Sun Aug 20 14:29:31 2017
   Built:
   OS/Arch:
                 linux/arm
   Experimental: false
  $ docker service create --env fprocess=/bin/cat --publish 8080:8080
  functions/alpine:latest-armhf
  $ docker service ls
                                          MODE
                                                              REPLICAS
                                                                                   IMAGE
  ID
           PORTS
  8ez9qk3dl0ux
                      eloquent_snyder
                                          replicated
                                                              1/1
  functions/alpine:latest-armhf *:8080->8080/tcp
  $ curl -4 localhost:8080 -d "test"
  test
1
```

alexellis referenced this issue in moby/moby on Aug 21

Clear Architecture field in platform constraint for arm architectures #34021 \ \text{\gamma} Merged





You can run this as a test work-load before and after:

```
$ docker swarm init && \
   git clone https://github.com/alexellis/faas && \
   cd faas && \
   ./deploy_stack.armhf.sh
```

The API gateway for FaaS will be on http://ip.address:8080/ find the ip with ifconfig

Related blog post to give it a thorough test - https://blog.alexellis.io/your-serverless-raspberry-pi-cluster/

• alexellis changed the title from Swarm Broken in Build Docker CE 17.07 to Swarm is Broken on Docker CE after 17.05 - no services are scheduled. on Aug 21



bassoman commented on Aug 29

Just got my Pi 3 cluster working with your article on setting up a cluster. I too had the issue of not seeing the Replica column show 1/1 properly. Upgraded my manager Pi 3 OS via the following page and it all works great now! Just do the 'Update to Debian 8 (Jessie)' paragraph and it will all start working properly. There seems to be no need to upgrade the worker nodes...

https://github.com/umiddelb/armhf/wiki/Get-Docker-up-and-running-on-the-RaspberryPi-(ARMv6)-infour-steps-(Wheezy)

Here are the commands:

```
sudo sed -i 's/wheezy/jessie/' /etc/apt/sources.list sudo sed -i 's/wheezy/jessie/' /etc/apt/sources.list.d/raspi.list sudo apt-get update && sudo apt-get -y upgrade # answer 'y' to upcoming questions sudo apt-get -y dist-upgrade # answer 'y' to upcoming questions sudo init 6 sudo apt-get -y autoremove sudo apt-get -y purge $(dpkg -I | awk '/^rc/ { print $2 }') sudo init 6
```