

Core testing infrastructure - Bug #4839

docker.io sometimes returns EOF, breaking our builds

11/02/2020 01:26 PM - laforge

Status: Resolved	Start date: 11/02/2020
Priority: Urgent	Due date:
Assignee: laforge	% Done: 100%
Category:	
Target version:	
Spec Reference:	
Description We have plenty of situations where docker.io seemingly returns EOF (i.e. nothing) when pulling a base image like debian:stretch. The failure to pull will cause our jenkins job (e.g. a TTCN3 test) to fail, despite no failure on our side. This has appeared even before docker introduced rate limiting today, so it is unrelated to that.	
Related issues:	
Related to Core testing infrastructure - Feature #4840: migrate osmo-gsm-test...	New 11/02/2020
Related to osmo-gbproxy - Bug #4850: ttcn3-gbproxy-test* are not generated by...	Resolved 11/05/2020

History

#1 - 11/02/2020 01:30 PM - laforge

- Status changed from New to In Progress

- % Done changed from 0 to 10

I tried to use our docker/registry instance at registry.sismocom.de as a 'pull-thru cache' as documented at <https://docs.docker.com/registry/recipes/mirror/>

This is broken, it is a known bug in docker since 2016, see <https://github.com/docker/distribution/issues/1486> and many other reports like https://www.reddit.com/r/docker/comments/bek6yv/how_do_you_do_registrymirror_with_auth/

So what we are moving towards is a setup where:

- one jenkins job does a daily pull of all our base images from docker.io, and pushes them to the private registry
- our jenkins jobs will then always pull directly from that private registry instead of the public one

If the pull from docker.io then fails occasionally, it will fail that re-sync jenkins job, but the (ttcn3 and other) jobs that verify osmocom software will not fail, and simply use the 1..N days old base image.

#2 - 11/02/2020 01:31 PM - laforge

<https://gerrit.osmocom.org/c/docker-playground/+21019> prepares our Dockerfiles with a way to override the registry when building images.

#3 - 11/02/2020 05:01 PM - laforge

- Status changed from In Progress to Resolved

- % Done changed from 10 to 100

Related patches all merged, hopefully those problems are now gone.

- <https://gerrit.osmocom.org/c/docker-playground/+21019>
- <https://gerrit.osmocom.org/c/osmo-ci/+21021>
- <https://gerrit.osmocom.org/c/osmo-ci/+21023>

I've manually verified that the registry-update-base-images job works, and also executed ttcn3-stp-test once to see if it actually pulls from registry.osmocom.org now.

#4 - 11/02/2020 05:13 PM - laforge

- Related to Feature #4840: migrate osmo-gsm-tester docker images to registry.osmocom.org added

#5 - 11/03/2020 08:15 AM - laforge

And of course, on day 1 of this new mechanism, we see:

- the docker image update job failing:

```
[registry-update-base-images] $ /bin/sh -xe /tmp/jenkins5987388568045535390.sh
+ REGISTRY=registry.osmocom.org
+ IMAGES=debian:stretch debian:buster debian:jessie debian:sid ubuntu:zesty centos:centos8
+ src=debian:stretch
+ dst=registry.osmocom.org/debian:stretch
+ echo

+ echo ===== debian:stretch
===== debian:stretch
+ docker pull debian:stretch
Error response from daemon: Get https://registry-1.docker.io/v2/library/debian/manifests/stretch: EOF
Build step 'Execute shell' marked build as failure
```

while all other builds succeed, using base images from registry.osmocom.org.

yay.

#6 - 11/05/2020 08:10 AM - laforge

- Related to Bug #4850: *ttn3-gbproxy-test** are not generated by jenkins-job-builder added