

From: Steven Murray Steven.Murray@cern.ch 
Subject: Can we create a CTA branch in the eos repository?
Date: 5 June 2019 at 14:43
To: castor-tape-dev (castor tape developments) castor-tape-dev@cern.ch

SM

Hi all,

This e-mail describes the topic of how I would like us to better use the EOS gitlab repository. This topic will come up in tomorrow's CTA deployments meeting.

In a nutshell I would like to make it easier for CTA developers to be able to build EOS rpms for the CTA CI.

Julien has already done all of the heavy lifting with respect to actually building the rpms. Julien has modified the EOS CI so that you can create a CTA compatible set of EOS rpms by simply clicking on the "build_cc7_xrd_cta" button in the first stage of your preferred EOS pipeline.

The EOS team make sure that tagged versions of EOS go through a very reasonable set of tests. My addition to Julien's hard work is a convention to help CTA avoid getting non tagged EOS commits into the EOS rpms of the CTA CI.

I believe a valid set of EOS rpms for the CTA CI consists of the following two ingredients:

- Tagged commits from the EOS team.
- Normal everyday commits from the CTA team.

Putting it another way:

- The CTA CI should not run against not tagged commits from the EOS team.
- We should not need to tag EOS in order for our own modifications to EOS to be tested in the CTA CI.

My solution is simple. We should, as I similarly proposed a long time ago, have a CTA branch in the EOS repository. This branch should only have tagged versions of EOS merged / rebased into it.

Any CTA developer can then use the CTA branch to build a version of the EOS rpms with their work to be tested in the CTA CI. If you are brave you can use the CTA branch directly. If you're more cautious then you can branch off from the CTA branch and build your EOS rpms there. However once you are happy with your testing you must merge / rebase your work back into CTA branch.

Please note that I have said "merge / rebase" a couple of times. No matter which method you prefer to use, the history of the CTA branch should not be re-written.

When a new EOS tag is to be created, we must merge / rebase our CTA branch into the EOS dev branch. Once this has been done we need to decide (tomorrow if possible) how to deal with the CTA branch. Should we re-write its history (I don't like this), create a new fresh CTA branch with a different name or merge EOS dev back into it?

Cheers,

Steve