
7th DIRAC User Workshop

Intro to Dev and DevOps section



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Hackathons!

(oh so cool!)

- “Ops” hackhathons
 - Mostly a hands-on tutorial
 - Install a server from scratch
 - includes Web
 - Configure it and use it
 - Pilots (and VMs)
- “Dev” hackhathons
 - We’re gonna code stuff
 - And we’ll be sure is well tested and well documented
 - Testing it at several levels (not only unit)

what are you attending?

(please don’t jump from one to the other)

- For the “Ops”:
 - a VM (SLC6)
 - VirtualBox + SLC6 image recommended
 - “equivalent” also OK
 - if you don’t have it, it’s time!
 - do it from your hotel, please!
 - For the “Dev”
 - docker
 - and possibly start by doing

```
docker pull cern/cc7-base:20170113
```
 - or the VM above
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Releases

Today:

- 2 “minor/major” release per year
- Patches: ~every week

Problems:

- Developments are done for the “next release”, PR created, and then may sit in the “merging queue” for (very) long
 - Disconnection between development and integration
 - Integration and testing are far away in time from when the development is done



Last year

- Release more often
 - Invest in a testing
 - Invest in a certification process
 - Which also means investing in a proper documented process and tools!
 - And a certification team
-

- Code Reviews
 - Already done, often deep
- Automation
 - Testing and checkers
 - Travis, Coveralls, Landscape plugged in (see Marko P. presentation later)
 - Integration types of testing also used
- Integration
 - Quick integration of new features is a key
- Continuous delivery
- Release manager becomes a routine job



Last year

- Clear, detailed procedure
- Communication
 - With the proper tools
- Not only one release manager
 - In the LHCb example there's one main release manager, and few others that can take the role



Last year

- There's a process
- There's a team
- There are tasks
- There's a good way to communicate
 - trello board(s) and a slack channel
- And we have better documentation

- We certainly deploy better tested releases
...but there's not yet a continuous delivery!

NB: this is and will always be, by nature, a WIP!

DIRAC Releases in the last year

- v6r15 on 20/05/2016
- v6r16 on 07/11/2016
- v6r17 on 13/12/2016 :)
- v6r18 on 26/05/2017

I am not **too** happy...

... still work to do
mostly, it's the usual few people doing most of it

So, we need you!

(and you need this for your extension!)

join me on Wednesday morning

Communication

Google [forum](#)

and for now, it's enough

Maybe we'll have a slack channel... not sure if really needed

BILD:

“BiWeekly ‘Loyal’ DIRAC Developers meetings”

(almost) every 2nd week, Thursday at 10:00 AM CET

LHCb hosted

ILC, Belle2, CTA, BES3 represented

Where releases and issues are discussed!

you are welcome to participate actively

?

Many steps done in the last few months.

- PRs are subject to a review
- PRs have some automated checks:
 - Travis
 - Coveralls.io
 - Landscape.io
- Tests should also always be added in the PR (from v6r15)
- Documentation should be added straight in the PR (from v6r15) (/docs directory)



Last year