

Automating “downstream” Debian package builds and updates in CI

Matthew Vernon
Debconf 2025

Introduction



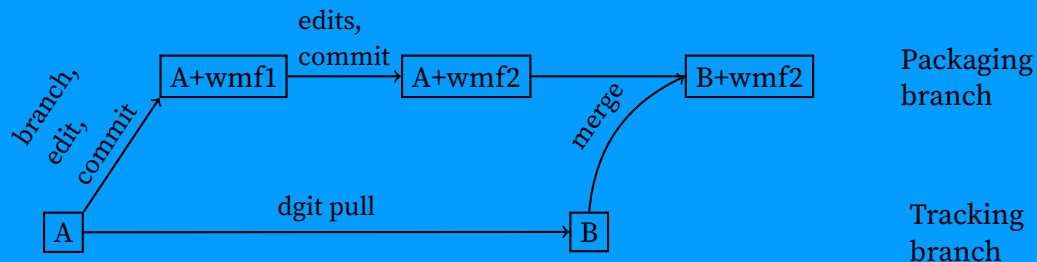
Source (package) complications



Clara Louise Roscoe (MET, 1992.281)



Git Workflow



Naming Things & Other Simple Topics

Branches

```
dgitt/.+
.*-wikimedia.*
```

Version suffixes

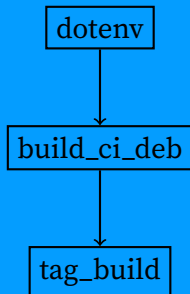
```
[~+]+wmf.*
```

Tags

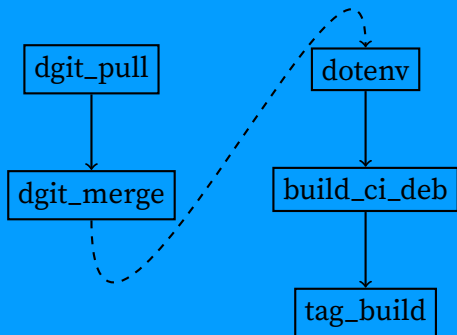
```
WMFDEBCI / .+ (DEP14 transformation)
```



Simple Pipeline



Update Pipelines



Example Commit & Tag

Showing 1 changed file ▾ with 6 additions and 0 deletions

▾  debian/changelog 

1	+	pcr2 (10.45-1~wmf12+2) bookworm-wikimedia; urgency=medium
2	+	
3	+	* Automatic CI update from tracking branch dgit/sid
4	+	
5	+	-- Gitlab pipeline <no-reply@wikimedia.org> Thu, 06 Feb 2025 08:03:54 +0000
6	+	
1	7	pcr2 (10.45-1) unstable; urgency=medium

📁 WMFDEBCI/10.45-1_wmf12+2

e7006a7d · Auto-generated changelog for 10.45-1~wmf12+2 · 4 months ago

Automatic CI build of version 10.45-1~wmf12+2



Usage

CI/CD configuration file

`buildddebs.yml@repos/sre/wmf-debci`

Configurable settings

- ▶ `DEB_BUILD_PROFILES`
- ▶ `DEB_BUILD_OPTIONS`
- ▶ `DGIT_CI_TOKEN`
- ▶ `USEBACKPORTS`
- ▶ `EXTRACOMPONENTS`
- ▶ `USE_TRUSTED`



Acknowledgements

- ▶ Eoghan Gaffney
 - ▶ Jelto Wodstrcil
 - ▶ Moritz Mühlenhoff
 - ▶ Giuseppe Lavagetto
-
- ▶ dgit
 - ▶ mk-build-deps
 - ▶ dcmd
 - ▶ dpkg-mergechangelogs



Questions?

```
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< Questions? >  
-----  
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      (oo)\_____  
          (__)\\       )\\/\  
              ||----w |  
              ||     ||
```

<https://gitlab.wikimedia.org/repos/sre/wmf-debci/>

<https://w.wiki/EdSo>

<https://wikimediafoundation.org/about/jobs/>





Contact me
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