The (im)perfect SRU

Why does it take so long?



Stable Release Update

What is an SRU?

The long story:

https://wiki.ubuntu.com/StableReleaseUpdates

We want to fix bugs

Without introducing new ones!

No change in user expected behavior

Don't fix one and break something else

Targeted fix, not version bumps

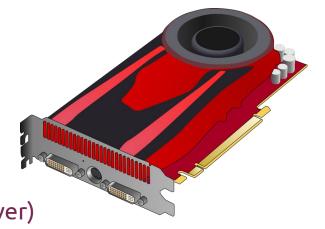
How severe is it?



We may need new functionality

Support for new hardware

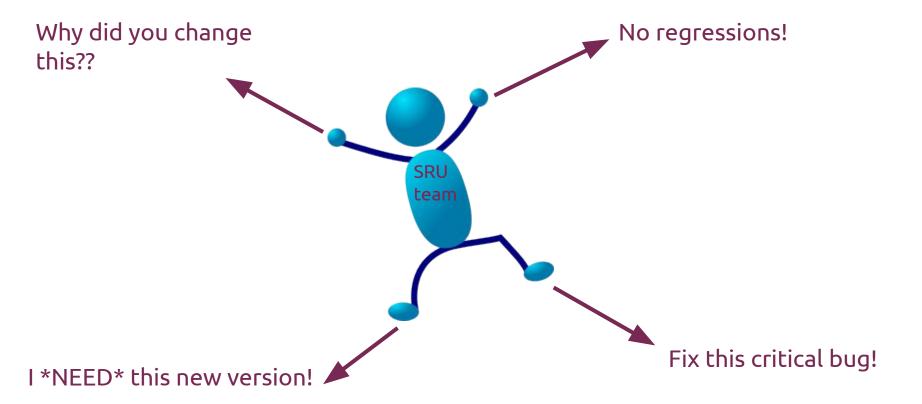
Protocol updates (client/server)







Competing requirements



Stable Release Update

How the team is organized

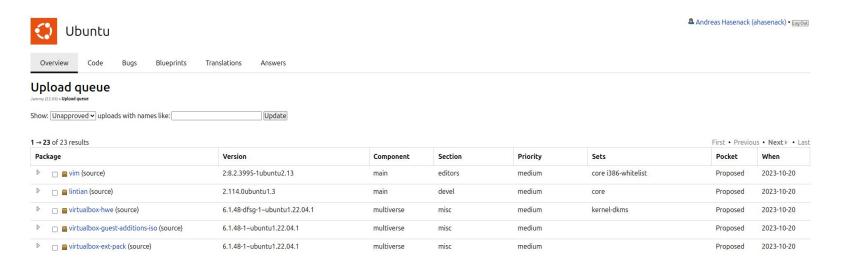
Work in shifts

Day	SRU Team Member (IRC nick)					
Monday	Łukasz Zemczak (sil2100)					
Tuesday	Chris Halse Rogers (RAOF), Brian Murray (bdmurray)					
Wednesday	Robie Basak (rbasak)					
Thursday Andreas Hasenack (ahasenack), Łukasz Zemczak (sil2100 - bac						
Friday Timo Aaltonen (tjaalton), Steve Langasek (vorlon - backup)						

Queues

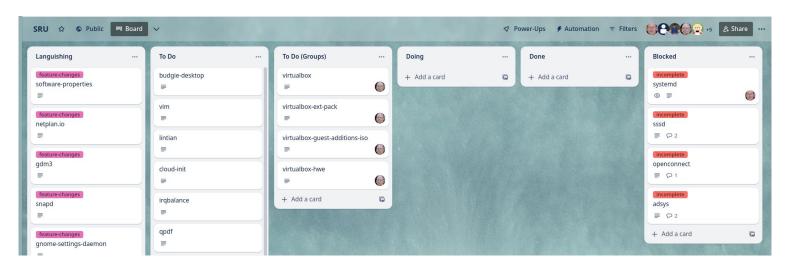
Ex.: jammy unapproved

https://launchpad.net/ubuntu/jammy/+queue?queue_state=1



Trello board

https://trello.com/b/XqBxtrZ9/sru



Pending SRU report

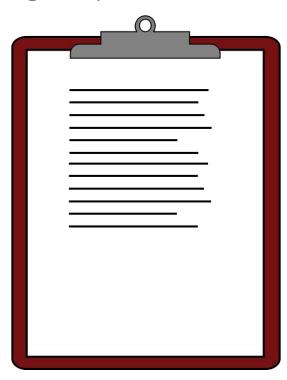
https://ubuntu-archive-team.ubuntu.com/pending-sru.html

Package	-release	-updates	-proposed (signer, creator)	changelog bugs	days
virtualbox-ext-pack	7.0.6-1	-	7.0.8-1 (None, team+debian-virtualbox)	3 3 3	185
msmtp	1.8.23-1		1.8.23-1ubuntu0.1 (schopin)	2017759	173
pipewire	0.3.65-3		0.3.65-3ubuntu1 (seb128)	2018316	163
lttng-modules	2.13.8-1		2.13.8-1ubuntu1 (xnox, roxanan)	2017006	163
python-tz	2022.7.1-3		2022.7.1-3ubuntu0.1 (bdrung)	2017999	163
accel-config	3.5.2-1		4.0-2~ubuntu0.23.04 (xnox)	2020769	141
libcupsfilters Regression in autopkgtest for libppd (amd64): test log	2.0~rc1-0ubuntu1	2.0~rc1-0ubuntu1.1	2.0~rc1-0ubuntu1.2 (doko)	2025150	115
v4l2loopback	0.12.7-2ubuntu3		0.12.7-2ubuntu3.1 (bdrung, vicamo-yano)	2025204	107
util-linux Regression in autopkgtest for netplan.io (arm64): test log Regression in autopkgtest for systemd (arm64): test log Regression in autopkgtest for systemd (ppc64el): test log Regression in autopkgtest for systemd (ppc64el): test log Regression in autopkgtest for systemd (s390x): test log	2.38.1-4ubuntu1		2.38.1-4ubuntu1.1 (mfo, hypothetical-lemon)	2019856	99

Stable Release Update

Stages of an SRU

Bug template



SRU Bug Template

[Impact]

- * An explanation of the effects of the bug on users and
- * justification for backporting the fix to the stable release.
- * In addition, it is helpful, but not required, to include an explanation of how the upload fixes this bug.

[Test Plan]

- * detailed instructions how to reproduce the bug
- * these should allow someone who is not familiar with the affected package to reproduce the bug and verify that the updated package fixes the problem.
- * if other testing is appropriate to perform before landing this update, this should also be described here.

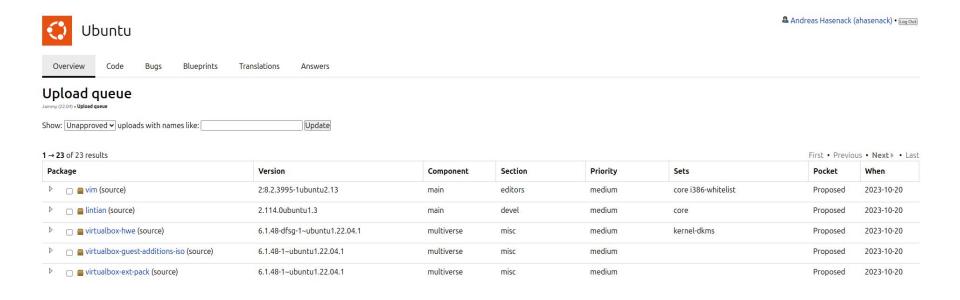
[Where problems could occur]

- * Think about what the upload changes in the software. Imagine the change is wrong or breaks something else: how would this show up?
- * It is assumed that any SRU candidate patch is well-tested before upload and has a low overall risk of regression, but it's important to make the effort to think about what ''could'' happen in the event of a regression.
- * This must '''never''' be "None" or "Low", or entirely an argument as to why your upload is low risk.
- * This both shows the SRU team that the risks have been considered, and provides guidance to testers in regression-testing the SRU.

[Other Info]

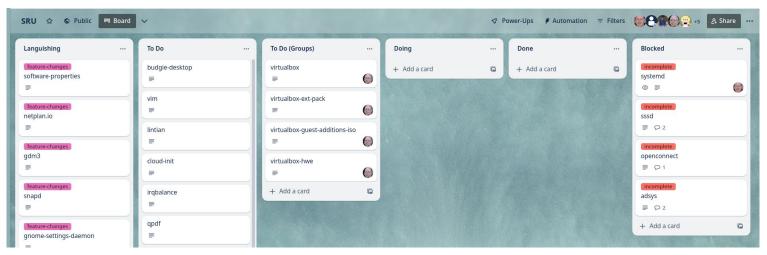
- * Anything else you think is useful to include
- * Anticipate questions from users, SRU, +1 maintenance, security teams and the Technical Board
- * and address these questions in advance

Upload to unapproved



Review by SRU team





Accept into proposed (or reject, or ask questions)

Hello Bryce, or anyone else affected,

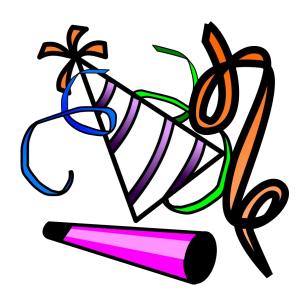
Accepted bind-dyndb-ldap into jammy-proposed. The package will build now and be available at https://launchpad.net/ubuntu/+source/bind-dyndb-ldap/11.9-5ubuntu0.22.04.4 in a few hours, and then in the -proposed repository.

Please help us by testing this new package. See https://wiki.ubuntu.com/Testing/EnableProposed for documentation on how to enable and use -proposed. Your feedback will aid us getting this update out to other Ubuntu users.

If this package fixes the bug for you, please add a comment to this bug, mentioning the version of the package you tested, what testing has been performed on the package and change the tag from verification-needed-jammy to verification-done-jammy. If it does not fix the bug for you, please add a comment stating that, and change the tag to verification-failed-jammy. In either case, without details of your testing we will not be able to proceed.

Further information regarding the verification process can be found at https://wiki.ubuntu.com/QATeam/PerformingSRUVe rification . Thank you in advance for helping!

N.B. The updated package will be released to -updates after the bug(s) fixed by this package have been verified and the package has been in -proposed for a minimum of 7 days.

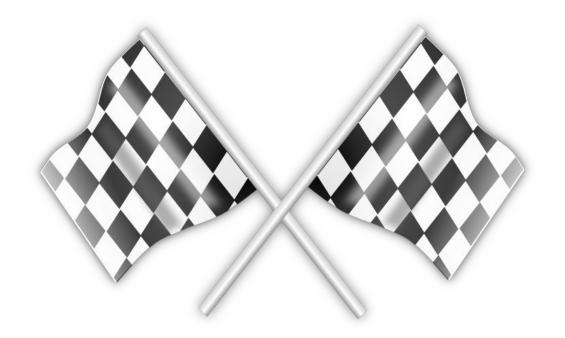


Verification

Always according to the agreed test plan!



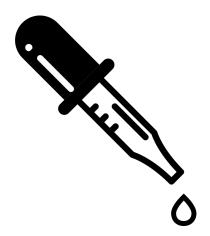
Release (and almost done)



Phased updates

https://ubuntu-archive-team.ubuntu.com/phased-updates.html

focal									
Package	Version (signer, creator)		-	date rcentage	Rate Increase	Errors	Days		
gnome- software	3.36.1-0ubuntu0.20.04.1 (superm1, ycheng-twn)			0% of users (was dcb236 2210ee 53f200 ab5486 4f3282			362		
jammy									
Package	Version (signer, creator)	Update Percentage	Rate Increase	Errors			Days		
gjs	1.72.4- 0ubuntu0.22.04.1	0% of users (was 10%)	+3577	d05869 306ce	6 98b11b 93a	de ad86af b9cf68 76fcf4 e7176b 1f1 88c026 c01b19 86f570 e9 554884 0afc62 35d5f8	72		



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Common issues

Weak SRU information

```
[ Impact ]
When run with option -x, <random-app-I-made-up-for-this>
fails to clear screen before running.
[ Test Plan ]
Make sure it works.
[ Where problems could occur ]
Nothing expected, the change is upstream and simple.
```

Bad upload

Missing bug number

Private bug instead of public

Bad version

d/changelog not matching actual changes

.changes file does not include previous upload

Missing upload for an affected release



Weak or incomplete verification

Did not follow agreed-upon test plan

Vague: "it works now"

Verified Ubuntu release X, flipped tags for all releases

Verified just one Ubuntu release, not the others

Tested with a PPA package

Which version of the package was used



Many flagged in the report

lunar					
Package	-release	-updates	-proposed (signer, creator)	changelog bugs	days
virtualbox-ext-pack	7.0.6-1		7.0.8-1 (None, team+debian- virtualbox)		185
msmtp	1.8.23-1		1.8.23-1ubuntu0.1 (schopin)	2017759	173
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Not fully verified

phpmyadmin 4:5.1.1+dfsg1-5ubuntu1 4:5.1.1+dfsg1-5ubuntu1.1 (athosribeiro, williamdes) 2016015 2016016 2016018

Missing bug updates



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Tips

Bug count

```
1786013 1853306 1977827 2003374 2008745 2015400 2016398 2018566(oem) 2018591 2819040 2320295(oem) 2020319 2020387 2020391 2020393 2022098 2023224 2023225 2023230 2023233 2023311 2023320 2023328 2023539(oem) 2023650(oem) 2024265 2024479 2024900 2025090 2025095 2026028 2026531 2026607 2028408 2028505 2028552 2028704 2028799 2029138 2029401 2030422 2031093 2031132 2032972 2034202 2036370 2036376
```

Use DEP3 headers in patches

https://dep-team.pages.debian.net/deps/dep3/

```
Origin: upstream, https://github.com/SSSD/sssd/commit/85c60e525e8e7d4c75
```

Bug: https://github.com/SSSD/sssd/issues/6347

Bug-Ubuntu: https://bugs.launchpad.net/ubuntu/+source/sssd/+bug/1989356

Bug-Debian: https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=1001377

Document all changes in the changelog

Document what was changed, and all that was changed



Proper impact and regression assessment

Have a great test plan

```
[ Test Plan ]
```

- * detailed instructions how to reproduce the bug
- * these should allow someone who is not familiar with the affected package to reproduce the bug and verify that the updated package fixes the problem.
- * if other testing is appropriate to perform before landing this update, this should also be described here.

Unambiguous verification



Don't forget other Ubuntu releases



SRU Exceptions don't mean a blank check

unlimited credit card

Great SRUs here! All the information you need and more!

Stable Release Update

Closing remarks