

Sync&Share@SURF

CS3 Cracow 2018



SURFdrivers

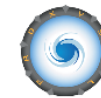


SURF

SURFdrive

- Sync-and-share solution for Dutch universities and higher education
- Started in 2014 on april 1st.
- Based on

- Owncloud
- Shibboleth
- Galera MariaDB+ProxySQL
- Redis/memcached/mcrouter/ApsaraCache
- Scality
- HAproxy



ProxySQL



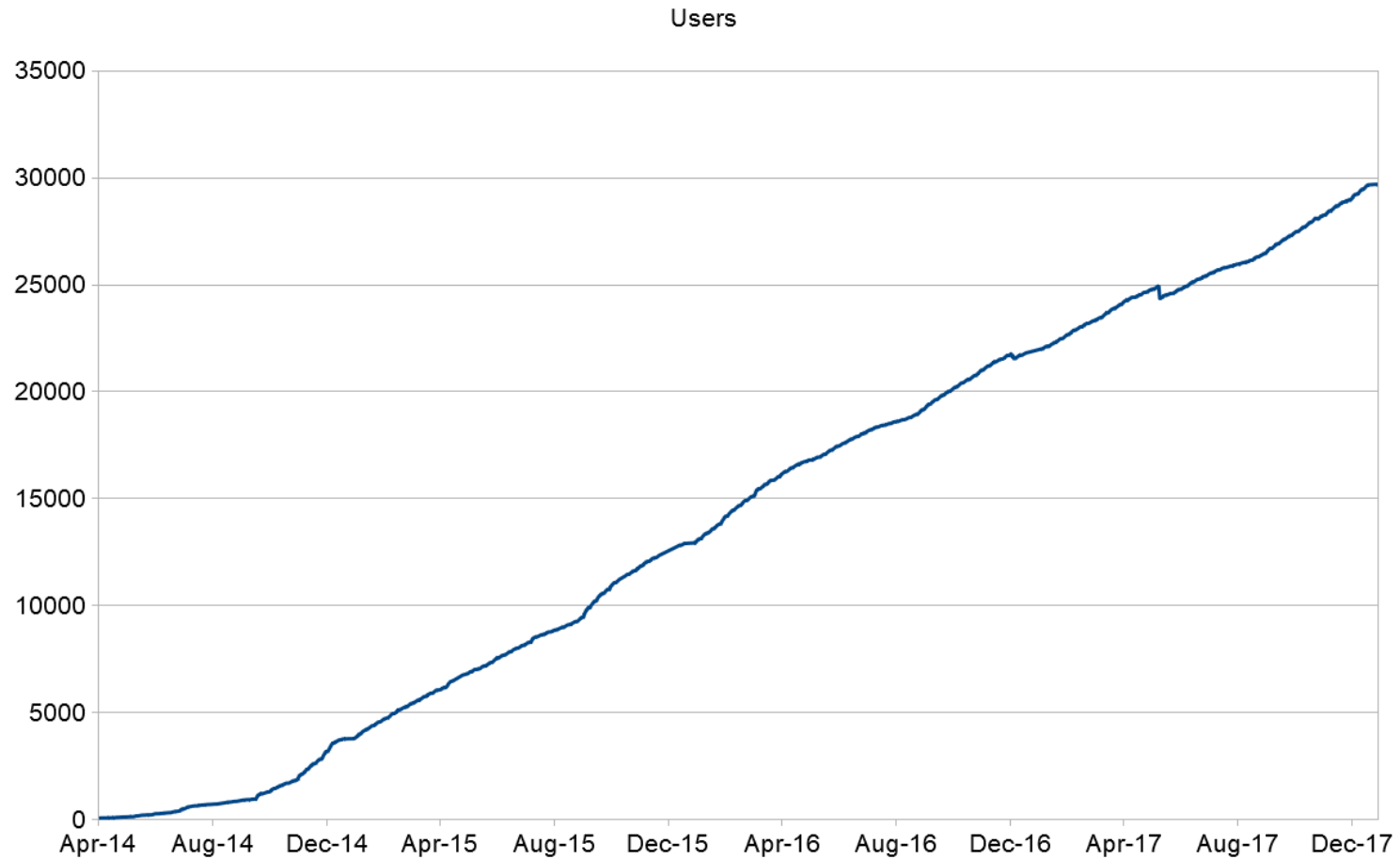
SCALITY



MariaDB

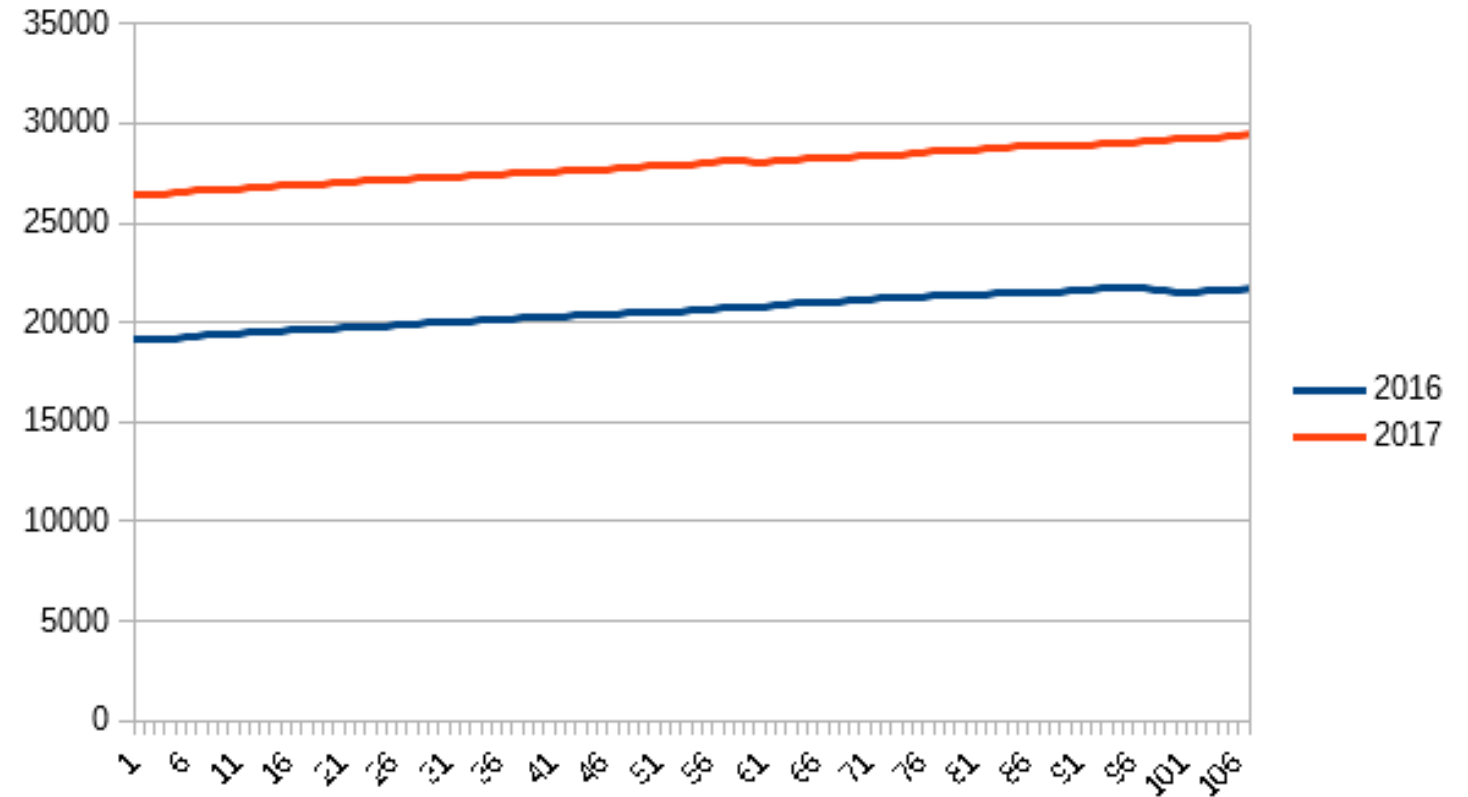


Number crunching

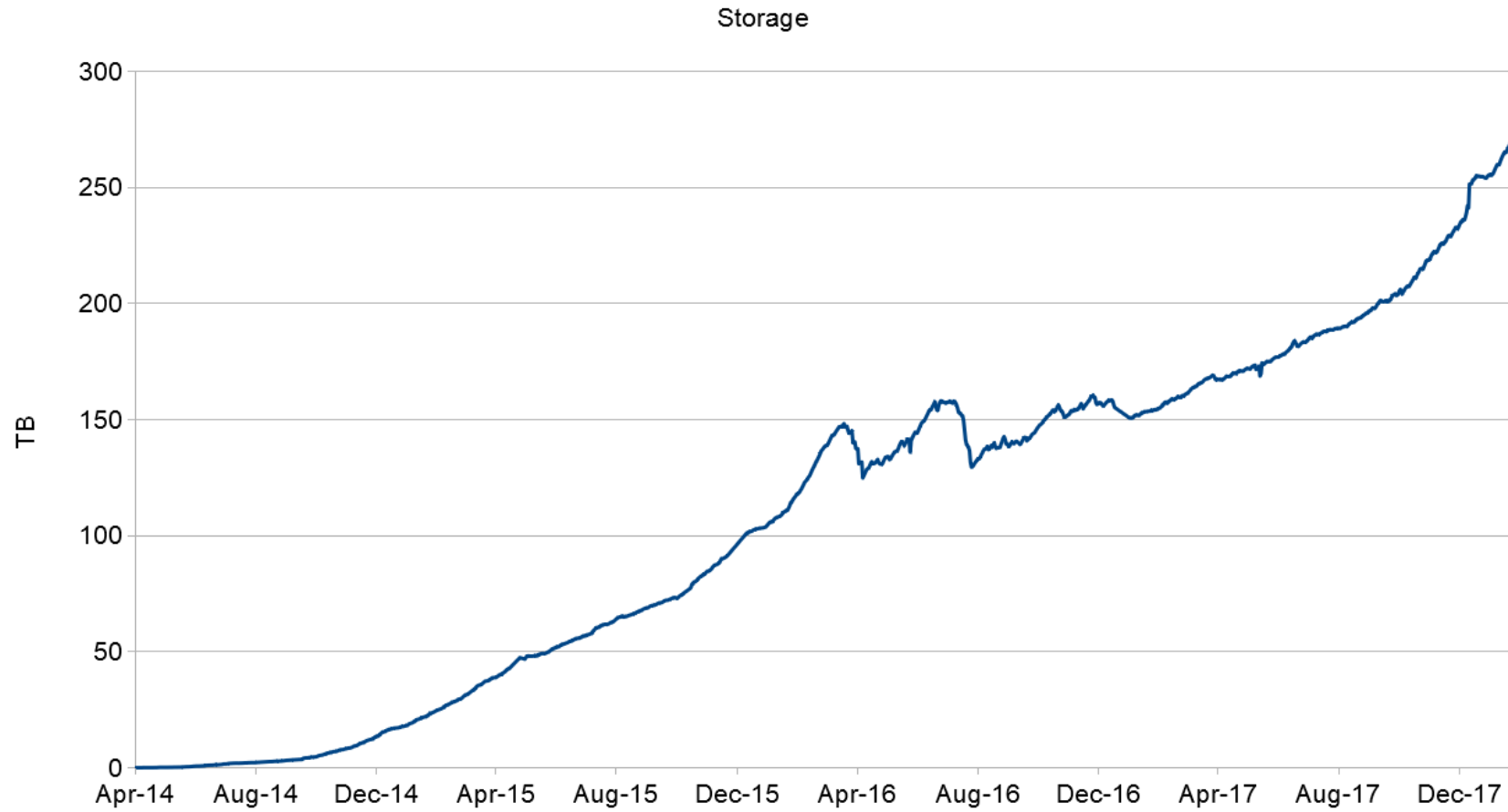


Number crunching

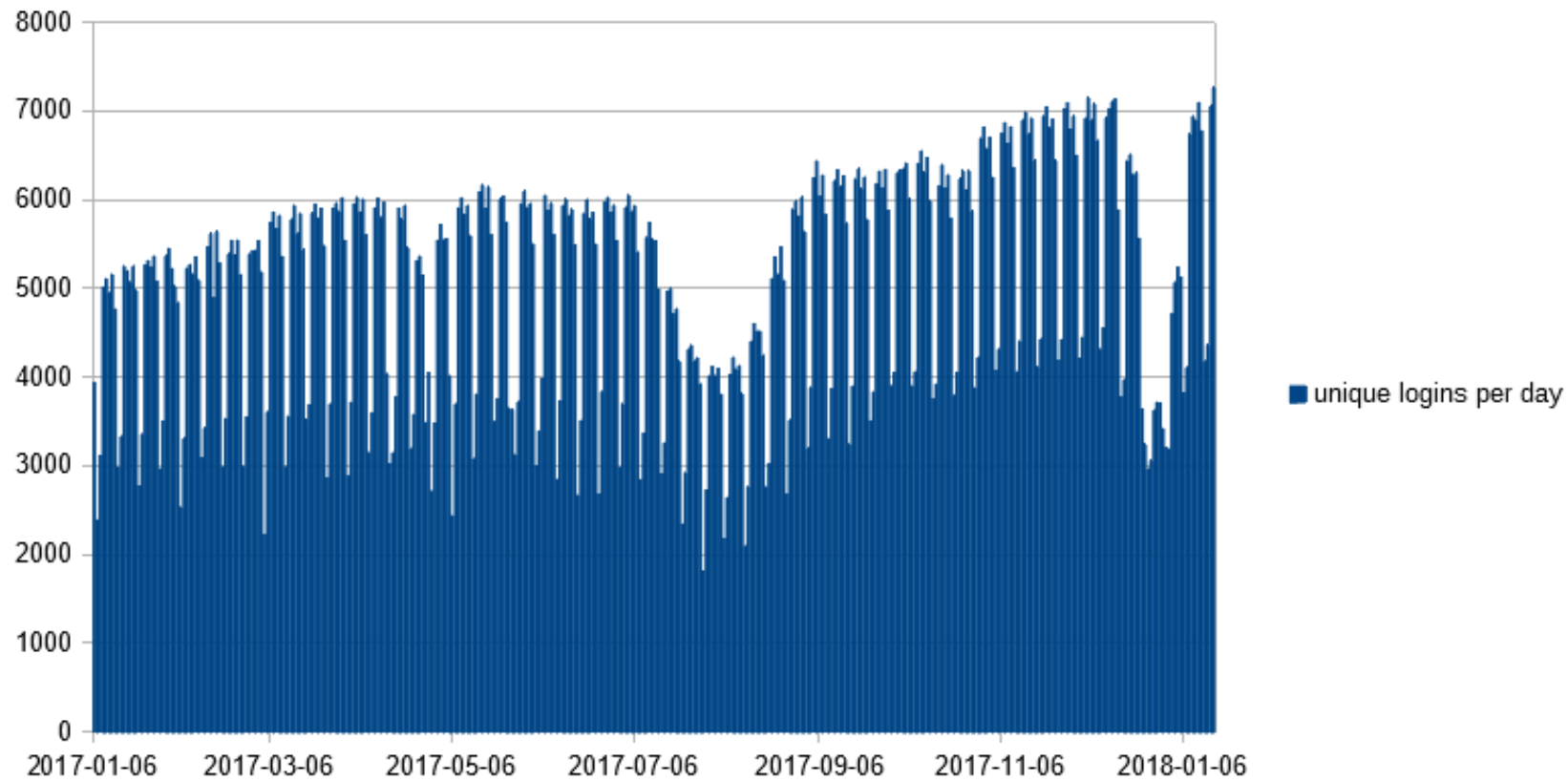
- Growth during the last months of 2016 as compared to the last months of 2017



Number crunching

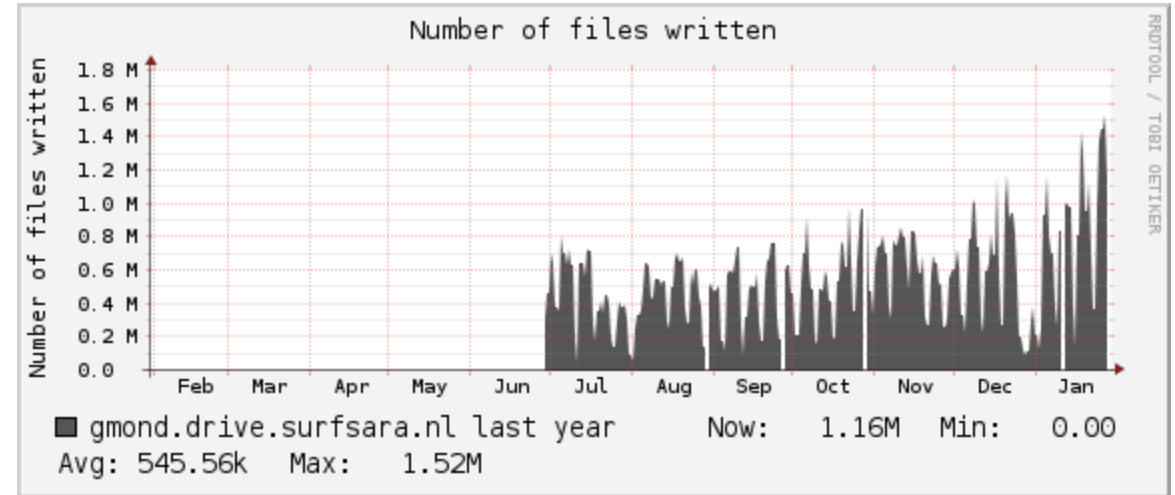


Number crunching



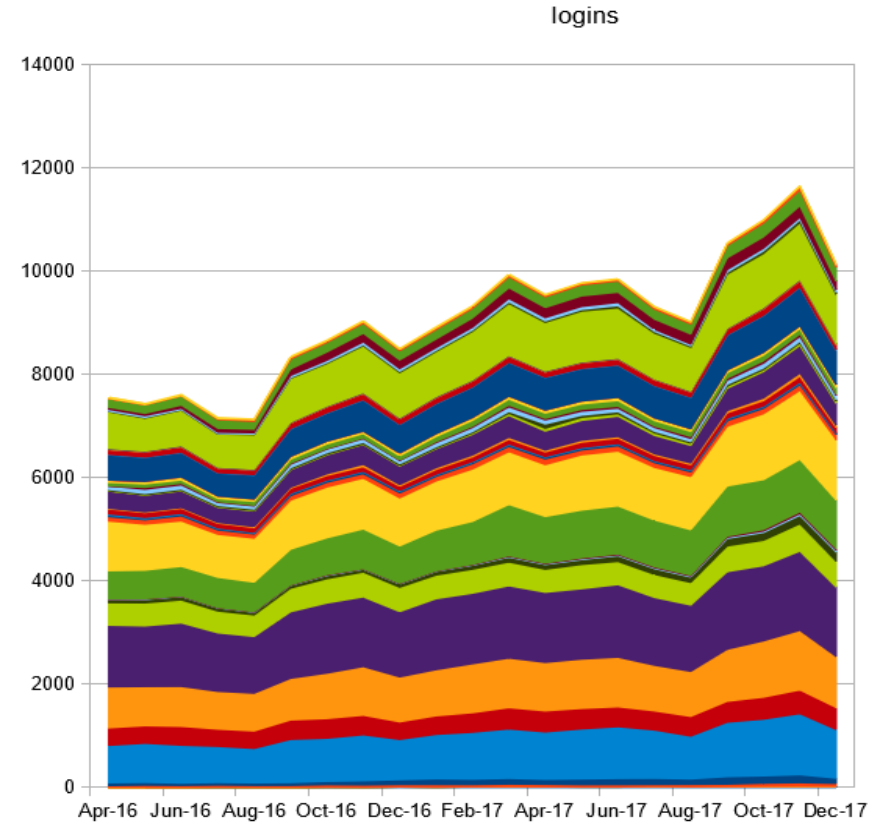
Number crunching

- Apps
 - Pdfviewer (2000 times per day)
 - Gallery (100 times per day)
 - Activity (40 times per day)
 - Collabora (don't know yet)
- Reads and writes
 - 2.5-3.5TB is read and written everyday
 - 1-1.6 million files are read and written every day



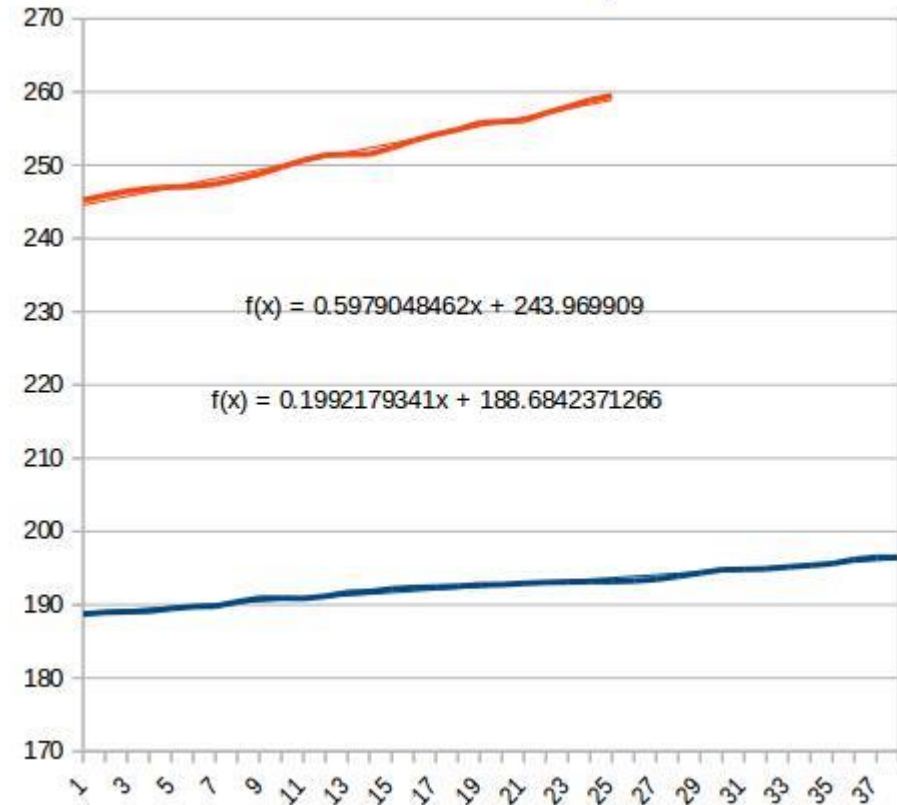
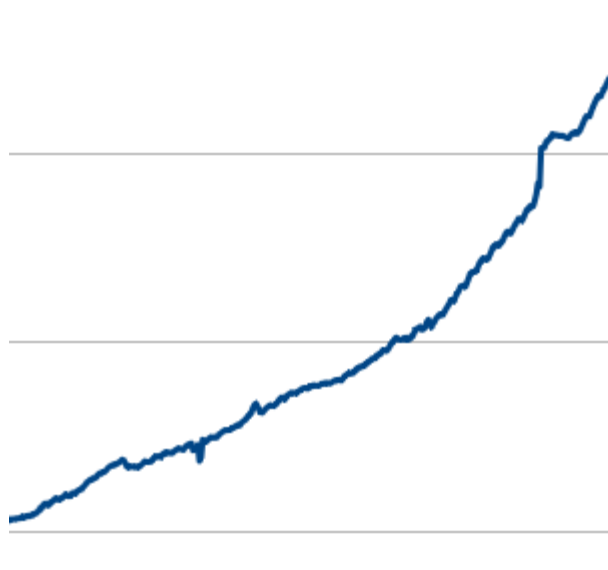
Number crunching

- 41 institutes
- There are substantial differences between institutes but on average more than 40% log in at least once per month
- 60% logs in at least once every three months



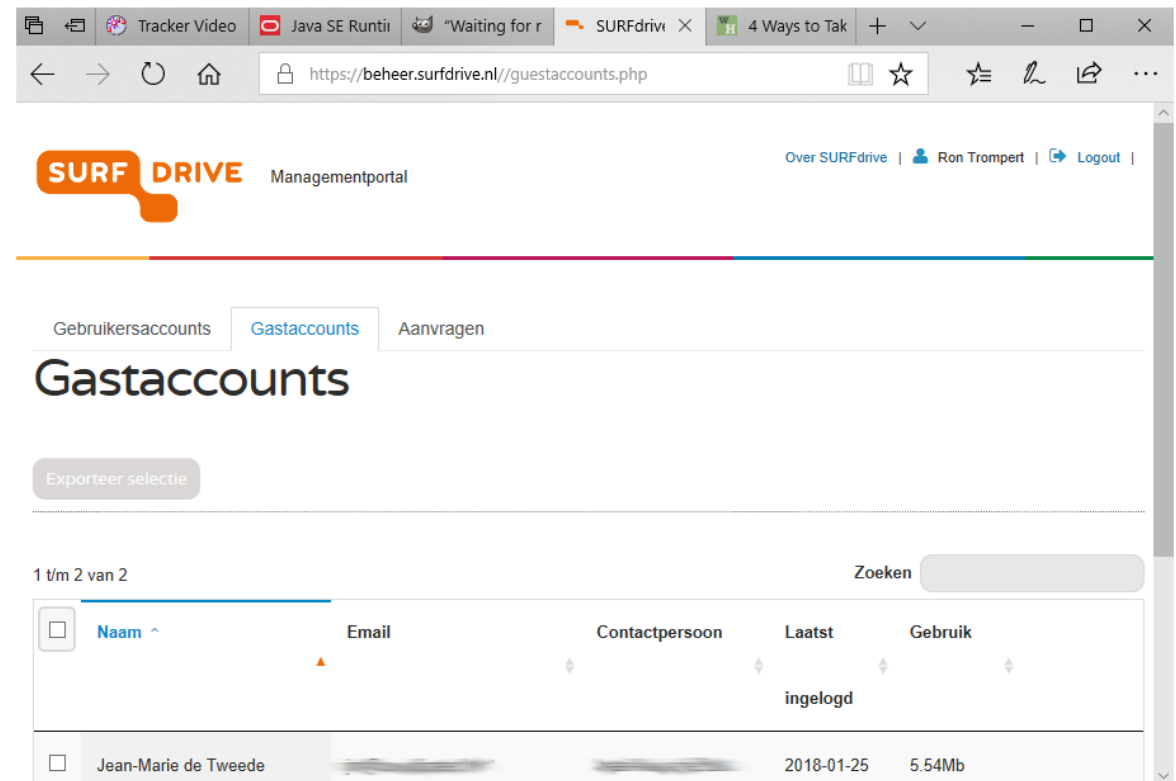
What happens when you enlarge the quota

- Better start buying storage



What happened since last CS3?

- Migration storage backend
- Repcached -> Mcrouter+Apsaracache
- Maxscale→ProxySQL
- Upgraded to Owncloud10
- Turned on:
 - Pdfviewer
 - Previews and Gallery
 - Audio and video player
 - Guestaccounts
 - Default sharing permissions
 - Custom groups

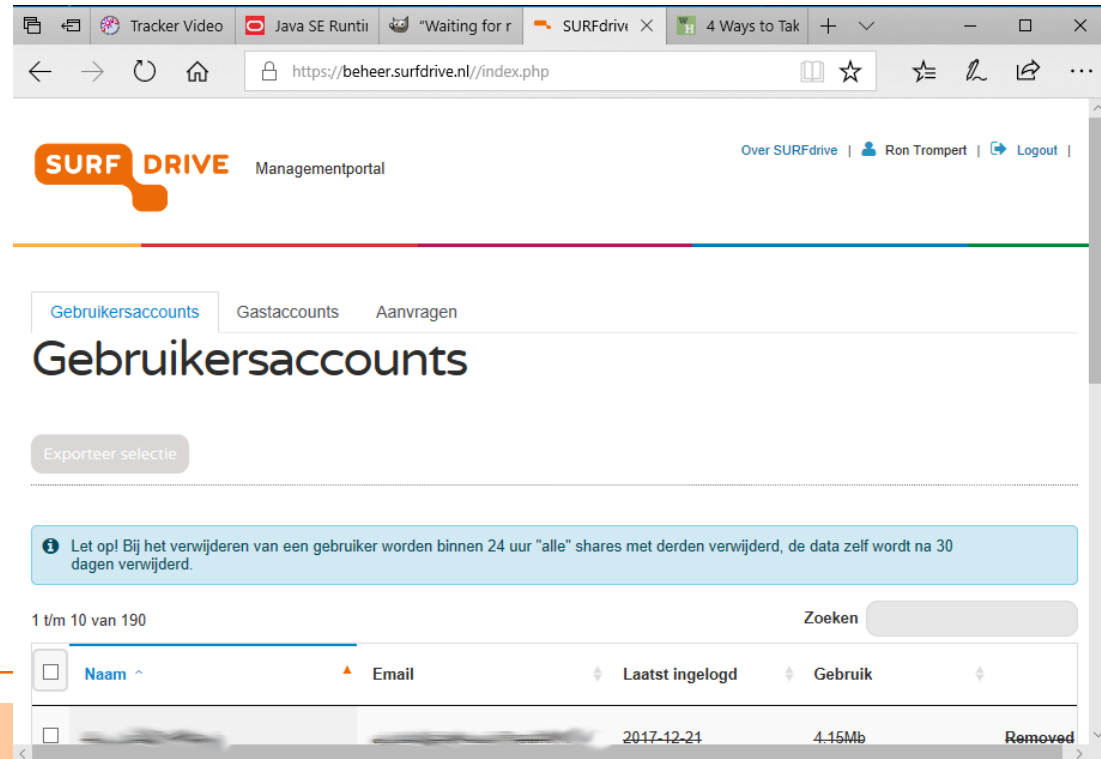


The screenshot shows a web browser window displaying the SURF DRIVE Managementportal. The page title is "Gastaccounts" and it is part of the "Managementportal". The user is logged in as "Ron Trompert". The page has tabs for "Gebruikersaccounts", "Gastaccounts", and "Aanvragen". Below the tabs, there is a search bar and a table of guest accounts. The table has columns for "Naam", "Email", "Contactpersoon", "Laatst", and "Gebruik". One account is visible: "Jean-Marie de Tweede" with a last login date of "2018-01-25" and a size of "5.54Mb".

Naam	Email	Contactpersoon	Laatst	Gebruik
<input type="checkbox"/>			ingelogd	
<input type="checkbox"/>			2018-01-25	5.54Mb

What are we going to do?

- Collaborative editing
 - Collabora
 - Currently testing with SURF, SURFmarket, SURFnet and SURFsara
 - Looks OK
- API management portal
- Group accounts
- Other stuff we come up with



The screenshot shows a web browser window displaying the SURF DRIVE Managementportal. The URL is <https://beheer.surfdrive.nl/index.php>. The page title is "SURF DRIVE Managementportal" and the user is logged in as "Ron Trompert". The main content area is titled "Gebruikersaccounts" and includes a search bar and a table of user accounts. A warning message states: "Let op! Bij het verwijderen van een gebruiker worden binnen 24 uur 'alle' shares met derden verwijderd, de data zelf wordt na 30 dagen verwijderd." The table shows columns for "Naam", "Email", "Laatst ingelogd", and "Gebruik".

<input type="checkbox"/>	Naam ^	Email	Laatst ingelogd	Gebruik
<input type="checkbox"/>	[Redacted]	[Redacted]	2017-12-21	4.15Mb Removed

The logo for SURF RESEARCHDRIVE is centered at the top. It features the word "SURF" in white text inside a green speech bubble shape, followed by the words "RESEARCHDRIVE" in a green, sans-serif font.

SURF RESEARCHDRIVE

Username or email

Password



SURF Research Drive

- Research teams need storage area to share and manage data
- Collaboration with private industry
- Want to create their own logins
- Want to do datamanagement
- Can have their own branding if they want to
- Seamless integration with SURFdrive by means of federated sharing
- Integration possible with other SURFsara storage systems
- Pay per TB, not per user
- No 24x7 support

SURFresearchdrive

- S3-based storage backend on Openstack SWIFT (multibucket setup)
- The rest of our infrastructure runs on our cloud infrastructure
- Webfrontends are (going to be) dockerised

- All files
- Favorites
- Shared with you
- Shared with others
- Shared by link
- Deleted files
- Settings

Name	Size	Modified
backgrounds	103.9 MB	24 days ago
Bla	0 KB	19 days ago
Documents	0 KB	a month ago
MyVault	46 KB	19 days ago
owncloudbucket2	338 KB	6 minutes ago
Photos	434 KB	a month ago
rontrompert	24.2 GB	19 days ago
SURFdrivefolder	148 KB	seconds ago
Vault	0 KB	3 days ago
ownCloud Manual.pdf	4.9 MB	a month ago

That's all Folks!