eLabFTW

The Free and Open Source Electronic Lab Notebook

Summary

- Why use an electronic lab notebook?
- Why use an open source solution?
- Why use eLabFTW?
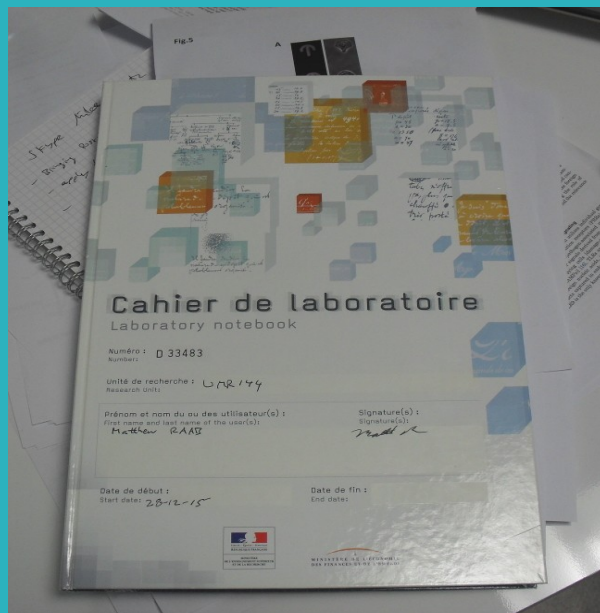- Why use Deltablot hosting?

Why use an ELN?

Problem:

Need to store metadata of experiments (what, when, where, who, why, how)

Why use an ELN?

Problem:

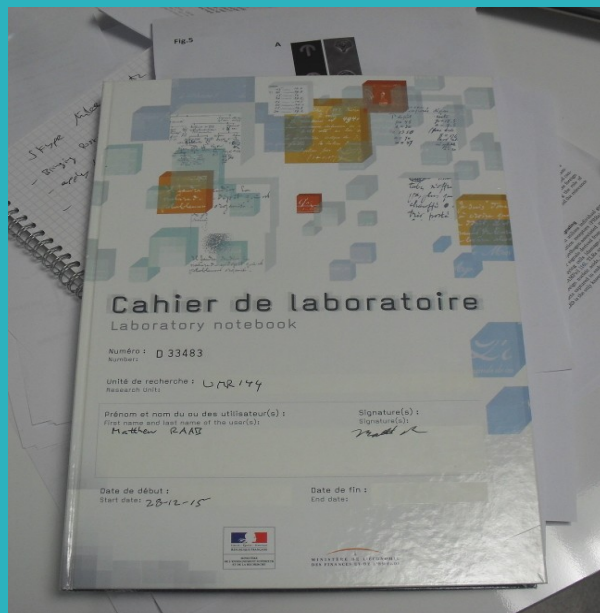Need to store metadata of experiments (what, when, where, who, why, how)

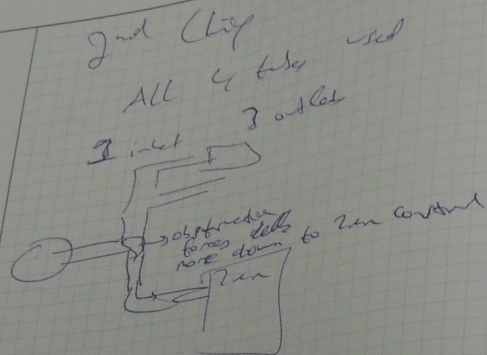Solution:

Why use an ELN?

Problem:

Need to store metadata of experiments (what, when, where, who, why, how)

Solution:

Limitations:
- Can be lost or burned
- No backups
- Often empty
- Not readable by others easily
- Can't search for something

Fig.6

Left page

2nd Chip

All 4 tubes used

3 inlet   3 outlet

[sketch of microfluidic device]

obstructed
forces cells
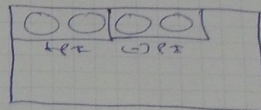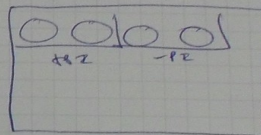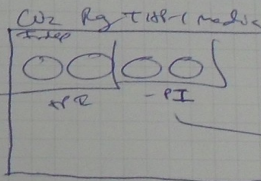note down
to Zen Control
down
Zen

Eventually want
to Zoom Out.

Raised to inside MitoCell for heat,
then every few min bring
down to mix via AirBar

Problem! ① cells not getting into
tubes in outlets. I think
they are stuck here ↗
② cells in CTL are
dead → from RT?

Right page

26 Aug 2016

Testing Cell Death ##P-1
cells

20K cells

[diagram: 4 wells]   37°C 5% CO₂
+P2   +P1

[diagram: 4 wells]   37°C NO CO₂
+P2   -P2

CO₂ Reg T##-1 media
[diagram: 4 wells]   25°C NO CO₂
+P2   -P1

→ Add P2 next day
waited 15 min, then imaged
dead cells

Imaged every 1-2 hrs, then left all
3 in incubator O/N. Imaged
again next day.

Conclusion → P1 in media (2µg/mL)
kills cells after a few hours.
Not 1-2 hrs, but 3-5 hours
- CO₂ Indep media improves
things a bit, but RT really bit
so bad for cells

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Now you want to use an ELN

Problem:

Which one?

"Should we use the free solutions out there?"
"But if it's free, it means we are the product, right?"
"Those privacy policies mention too many times the word "marketing" to my taste"

Now you want to use an ELN

Problem:

Which one?

"But should I give all my research results to a foreign company on which I have no control?"
"What happens if that company gets bought by a Chinese consortium?"
"What happens to my data if that company closes"

Now you want to use a free and open source ELN

Problem:

Which one?

Well, eLabFTW of course! It's the most popular one and the most flexible, modern and fast ELN out there!* ;)
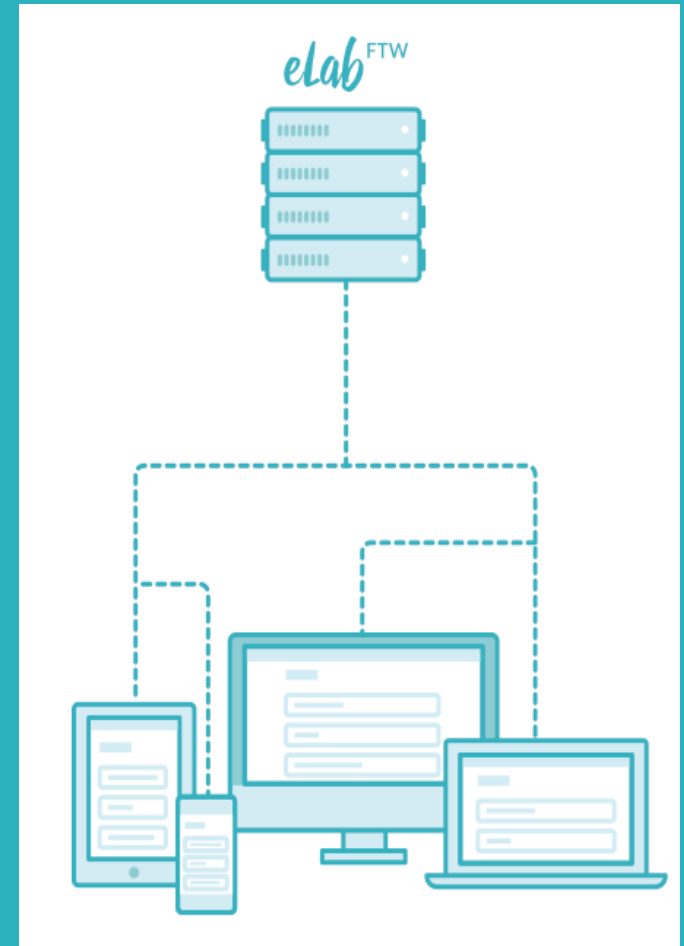
eLabFTW

- Developed since 2012
- Free as in beer
- Free as in speech
- 350+ stars on GitHub
- Vibrant users community contributing to the software
- Modern
- Has great features
- Secure
- Popular all over the world

eLabFTW: key features
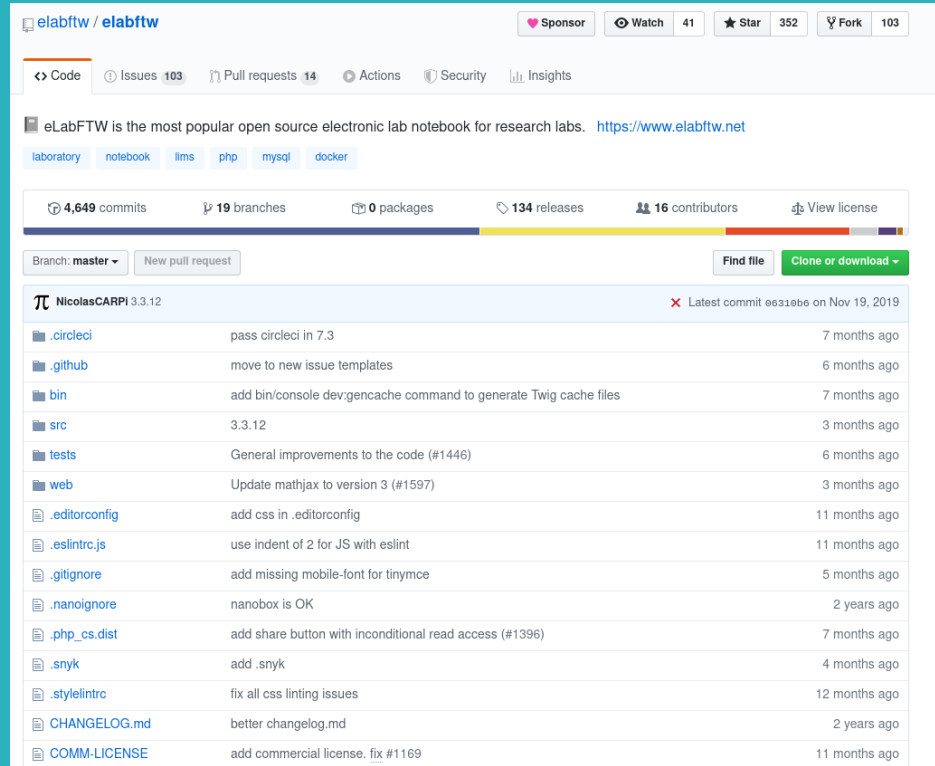
Web based

No client to install

Responsive design
(works with all screen
sizes)

eLabFTW: key features

Open source

Access to the source code is immediate

Users contributions are welcome

A good read: The closed source sustainability crisis

eLabFTW: key features

- Trusted timestamping (RFC 3161)
- API access
- SAML authentication
- Templates
- Database for products/protocols
- Export in ZIP, PDF, CSV, JSON
- Molecule editor
- Todolist
- Tex rendering
- Very customizable
- Translated in 17 languages

eLabFTW: community driven development

Auto logout afer x min of inactivity `feature request`
#1558 opened 22 days ago by Aveyron-RetD   💬 1

Keyboard shortcuts in TinyMCE editor `feature request`
#1556 opened 23 days ago by squirrel198   💬 1

Add status select on zip import `feature request`
#1538 opened on Oct 2 by NicolasCARPi

Add backup in API `feature request`
#1534 opened on Sep 30 by NicolasCARPi

Add mysql port config and tls with path to cert `feature request`
#1498 opened on Sep 5 by NicolasCARPi   💬 1

Integration of a "follow this experiment" button `feature request`
#1496 opened on Sep 4 by AlfredoCampari   💬 1

In the model items categories allow steps to be prefilled `feature request`
#1495 opened on Sep 3 by Aveyron-RetD   💬 1

keep the filter enabled when navigating to and back from an experience or database
item `feature request`
#1494 opened on Sep 3 by Aveyron-RetD   💬 5

Suggestion: add folder hierarchy `feature request`
#1471 opened on Aug 22 by andrewjho   💬 7

.json viewer / editor `feature request`
#1467 opened on Aug 20 by christophys   💬 1

Sharing templates across different teams `feature request`
#1457 opened on Aug 15 by riefler   💬 3

Modification Scheduler `feature request`
#1453 opened on Aug 13 by Benjamin218

Show linked database items too in 'show related' link `feature request`
#1432 opened on Jul 31 by Aveyron-RetD   💬 3

eLabFTW: key features
For research centers/universities

- Host it on your network
- Centralize your results on one server
  - No data gets lost if a laptop of a postdoc is stolen
  - Several teams can be hosted on the same instance

eLabFTW: quality software

- Test suite (unit, acceptance, static analysis)
- Respects code standards
- Best practices followed
- Modern tooling used
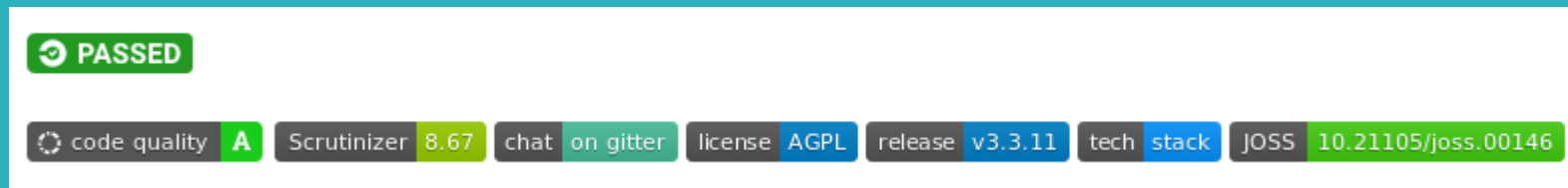
eLabFTW: secure software

- Tight and secure configuration at different levels
- Vulnerability scans
- Signed releases
- Perfect score on Mozilla's Observatory

eLabFTW: secure software

SSL Report: demo.elabftw.net (2001:bc8:31d5:100:0:0:0:1)
Assessed on: Tue, 21 May 2019 22:46:39 UTC | HIDDEN | Clear cache   Scan Another »

Summary

Overall Rating

A

Certificate
Protocol Support
Key Exchange
Cipher Strength

0   20   40   60   80   100

Scan Summary

A+

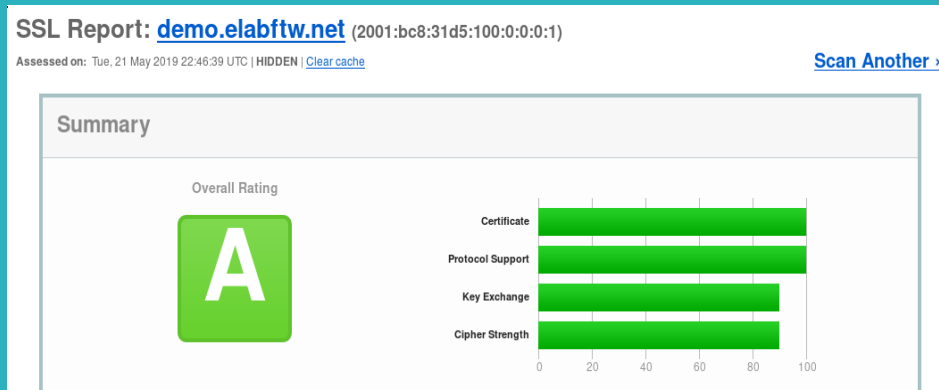| Host: | demo.elabftw.net |
Scan ID #:	10877555 (unlisted)
Start Time:	May 22, 2019 1:38 AM
Duration:	4 seconds
Score:	110/100
Tests Passed:	11/11

Security Report Summary

A+

Site:	https://demo.elabftw.net/login.php
IP Address:	2001:bc8:31d5:100::1
Report Time:	21 May 2019 22:43:47 UTC
Headers:	✔ Strict-Transport-Security ✔ X-Frame-Options ✔ X-XSS-Protection ✔ X-Content-Type-Options
	✔ Content-Security-Policy ✔ Referrer-Policy ✔ Feature-Policy

eLabFTW: secure software … not like others…

Scan Summary
F
Host:	my.labguru.com
Scan ID #:	10882470
Start Time:	May 22, 2019 12:04 PM
Duration:	1 seconds
Score:	20/100
Tests Passed:	6/11

Scan Summary
D
Host:	www.docollab.com
Scan ID #:	10882496
Start Time:	May 22, 2019 12:11 PM
Duration:	2 seconds
Score:	35/100
Tests Passed:	6/11

Scan Summary
F
Host:	www.eclabnote.com
Scan ID #:	10882493
Start Time:	May 22, 2019 12:11 PM
Duration:	2 seconds
Score:	0/100
Tests Passed:	5/11

Scan Summary
B
Host:	my.scinote.net
Scan ID #:	10882483
Start Time:	May 22, 2019 12:08 PM
Duration:	6 seconds
Score:	75/100
Tests Passed:	10/11

Scan Summary
C-
Host:	eln.chemotion.net
Scan ID #:	10882556
Start Time:	May 22, 2019 12:19 PM
Duration:	3 seconds
Score:	45/100
Tests Passed:	9/11

Scan Summary
F
Host:	exemplareln.com
Scan ID #:	10882503
Start Time:	May 22, 2019 12:12 PM
Duration:	3 seconds
Score:	15/100
Tests Passed:	5/11

Scan Summary
F
Host:	labcollector.com
Scan ID #:	10882563
Start Time:	May 22, 2019 12:21 PM
Duration:	19 seconds
Score:	0/100
Tests Passed:	3/11

Scan Summary
C-
Host:	openwetware.org
Scan ID #:	10882490
Start Time:	May 22, 2019 12:10 PM
Duration:	2 seconds
Score:	45/100
Tests Passed:	8/11

Scan Summary
F
Host:	osf.io
Scan ID #:	10882485
Start Time:	May 22, 2019 12:09 PM
Duration:	2 seconds
Score:	10/100
Tests Passed:	7/11

Scan Summary
B+
Host:	www.labii.app
Scan ID #:	10882569
Start Time:	May 22, 2019 12:22 PM
Duration:	3 seconds
Score:	80/100
Tests Passed:	10/11

Scan Summary
D
Host:	www.benchling.com
Scan ID #:	10882521
Start Time:	May 22, 2019 12:16 PM
Duration:	2 seconds
Score:	35/100
Tests Passed:	6/11

Scan Summary
C
Host:	app.labstep.com
Scan ID #:	10882589
Start Time:	May 22, 2019 12:26 PM
Duration:	4 seconds
Score:	50/100
Tests Passed:	10/11

Scan Summary
F
Host:	www.scilligence.com
Scan ID #:	10882597
Start Time:	May 22, 2019 12:28 PM
Duration:	1 seconds
Score:	0/100
Tests Passed:	5/11

Scan Summary
F
Host:	www.labware.com
Scan ID #:	10882601
Start Time:	May 22, 2019 12:29 PM
Duration:	6 seconds
Score:	0/100
Tests Passed:	3/11

Scan Summary
D-
Host:	pillar.science
Scan ID #:	10882612
Start Time:	May 22, 2019 12:30 PM
Duration:	1 seconds
Score:	25/100
Tests Passed:	9/11

eLabFTW: supported software

Free support on GitHub
PRO support available from Deltablot
Hosting available from Deltablot

https://www.deltablot.com

contact@deltablot.email

eLabFTW: get hosted!
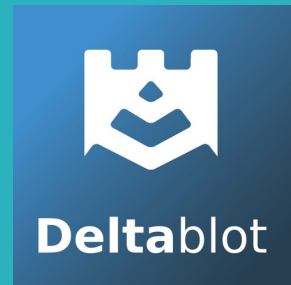
Deltablot

Hosting a web service can be tricky if you don't have the right knowledge.

HSTS, SSH, TLS, CSP, Docker, Nginx, etc…

Don't worry about all of that, and use Deltablot's hosting!

- PRO support included
- Daily backups
- Secure CentOS server (when I say secure I mean paranoid config)
- Free updates on new releases

Get in touch:
contact@deltablot.email