The driving force behind putting #LibreOffice in the #Cloud.

LibreOffice: online

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"Stand at the crossroads and look; ask for the ancient paths, ask where the good way is, and walk in it, and you will find rest for your souls..." - Jeremiah 6:16

"There is no Cloud, it's just someone else's computer" unless it's your computer that is ...



Controlling your data

- 100% FLOSS software implementation
- Sitting on your own hardware, on-premise, or with a hoster you trust
 - You know whom you're sharing the CPU with: cf. RowHammer, Xen vul'ns etc. etc.
 - You know where your data goes.
- Easy to integrate with other systems
- Efficient, Scalable, Powerful



Current Version CODE 2.0

- High fidelity, WYSIWYG rendering
- Document Support:
 - DOC, DOCX, PPT, PPTX, XLS, XLSX + ODF.
 - Import/View Visio, Publisher, + 100 more
- Basic Document Editing as of now
- Collaborative editing with this basic set.
- Better commenting / collaboration is next.
- CODE: suitable for home use ...
 - Volunteers should not be responsible for your free enterprise deployment.

Integrating with lots of FSS

Existing EFSS does:

- Authentication:
 - Active Directory, Kerberos, LDAP, etc. etc. integration
- Storage:
 - replication, backup, database integration, Antivirus, backup.

We do:

- Collaborative editing and rendering of arbitrary file formats

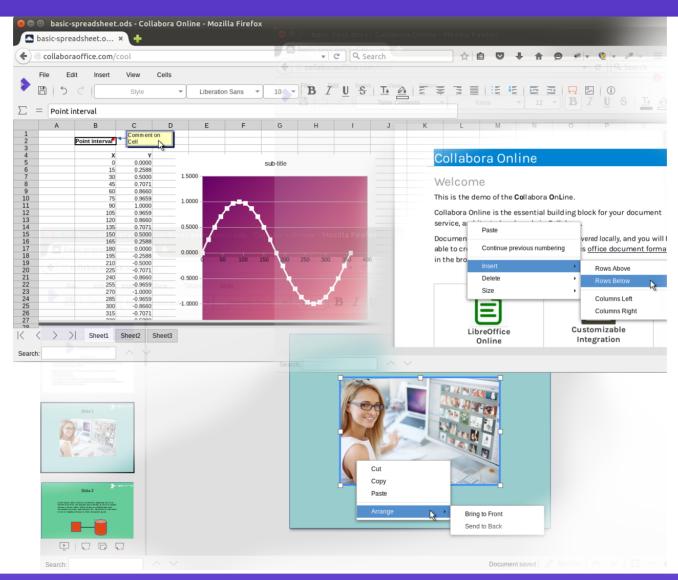
Bonus features

- A reduced feature-set sphere can win.
 - light editing use-cases to match competition
- Document Formats relevant only for migration.
 - "in the cloud"
- Server / Certification / Revenue model ...

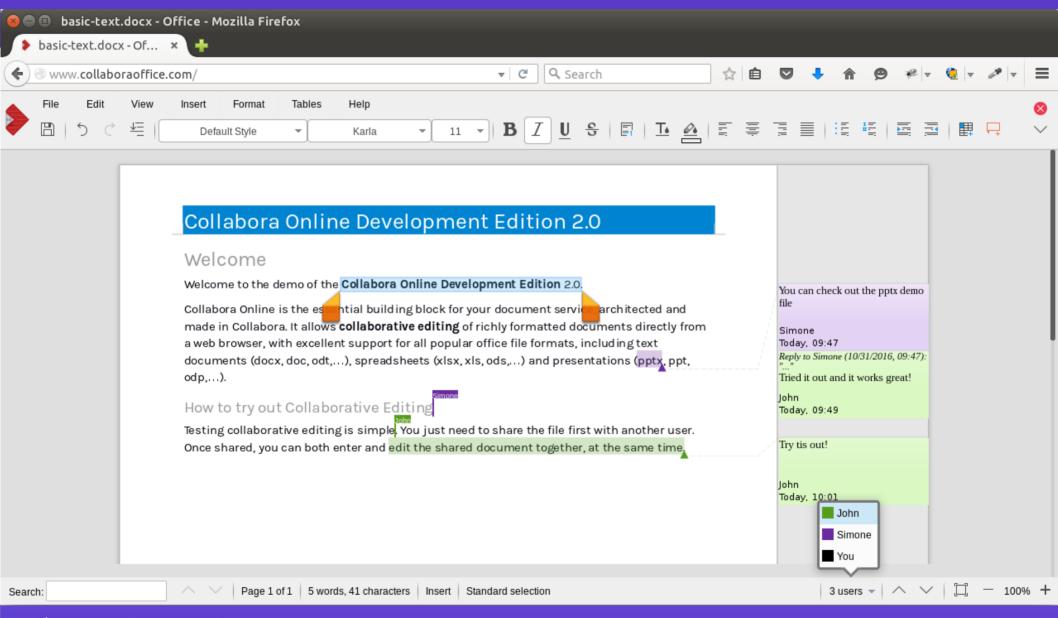
CODE ...

- CODE grab the latest Docker image and/or Virtual Machine pieces.
 - http://collaboraoffice.com/code
- And an extension for your EFSS ...
 - No core changes required, easy to deploy
- Extensions implement the WOPI protocol
 - Unifies authentication and file-access
 - Re-use awesome authentication and storage options – effortlessly.

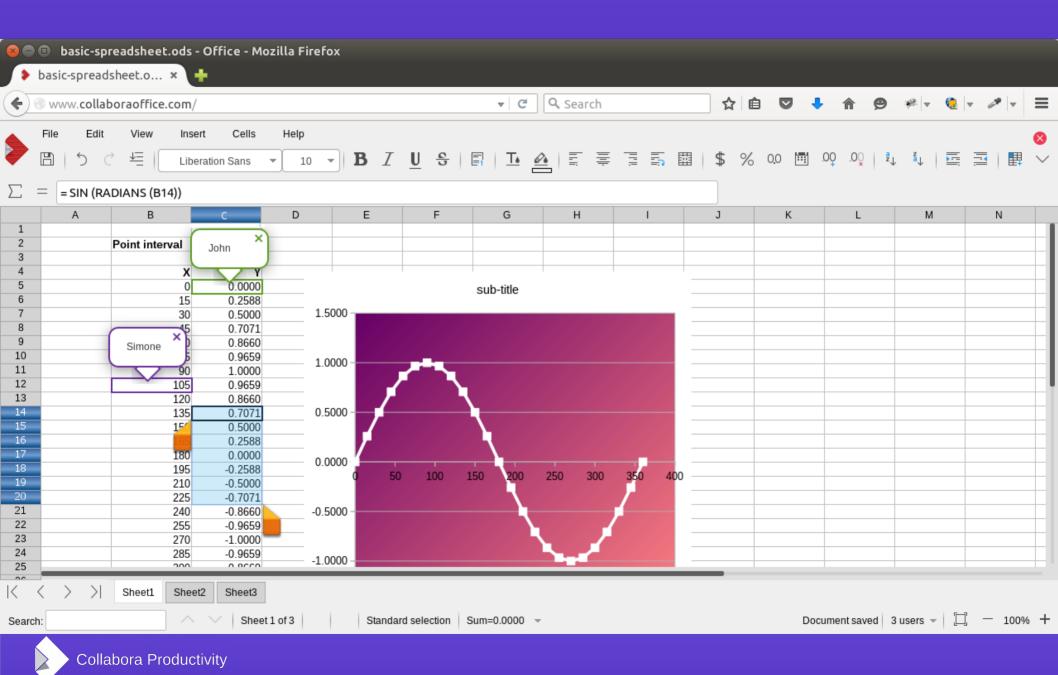
Demo / what it looks like



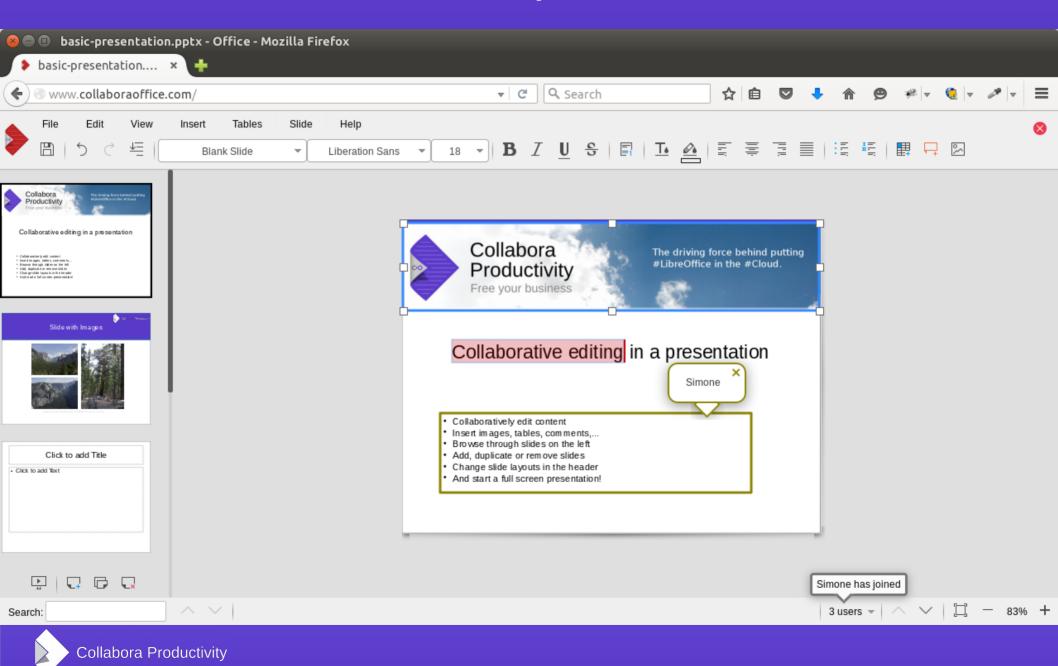
Writer



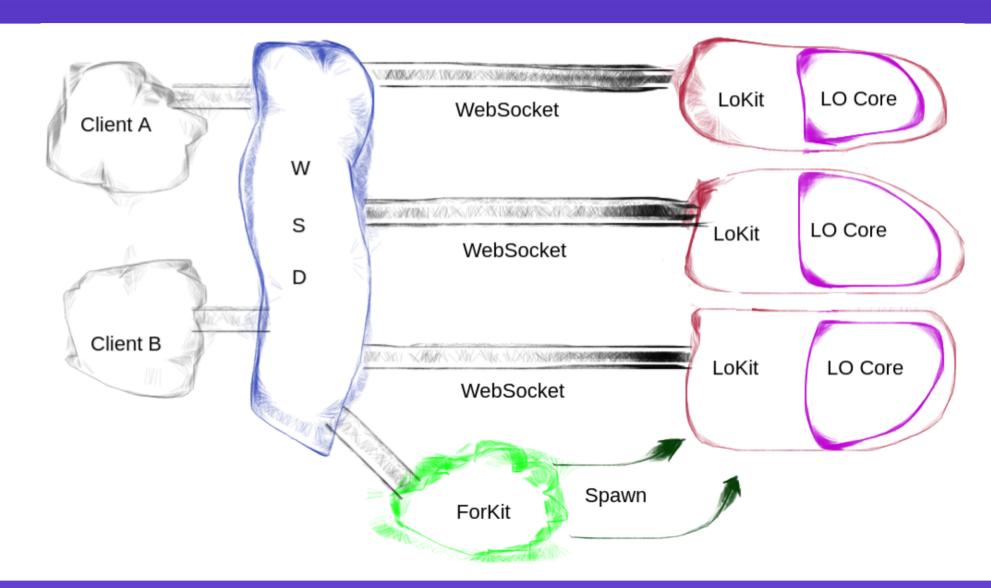
Calc



Impress



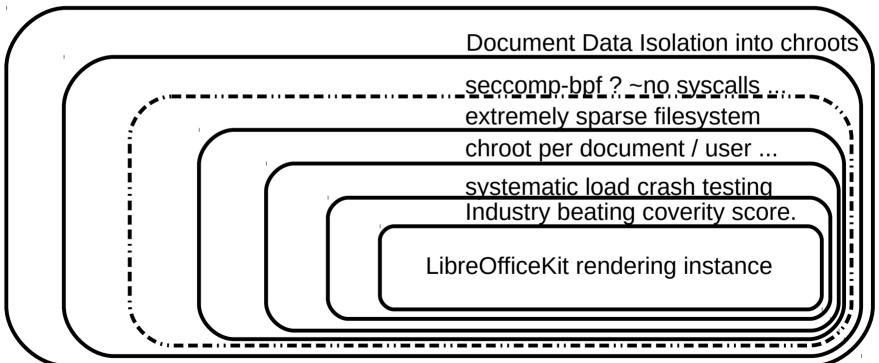
Architecture



The Security Onion

A Layered approach to protecting your infrastructure ...

Virtual Machine / Docker Container



Storage & Auth: WOPI – REST-ness:

- WOPI: a well documented open protocol (https://wopi.readthelatestdocs.org/en/latest/
- To download the file:
 - GET https://<WOPI host URL>/<...>/wopi*/files/<id>/contents?access_token=<token>
- Upload back:
 - POST https://<WOPI host URL>/<...>/wopi*/files/<id>/contents?access_token=<token>
- Check file info (file name, size, user name, version)
 - https://<WOPI host URL>/<...>/wopi*/files/<id>?
 access token=<token>

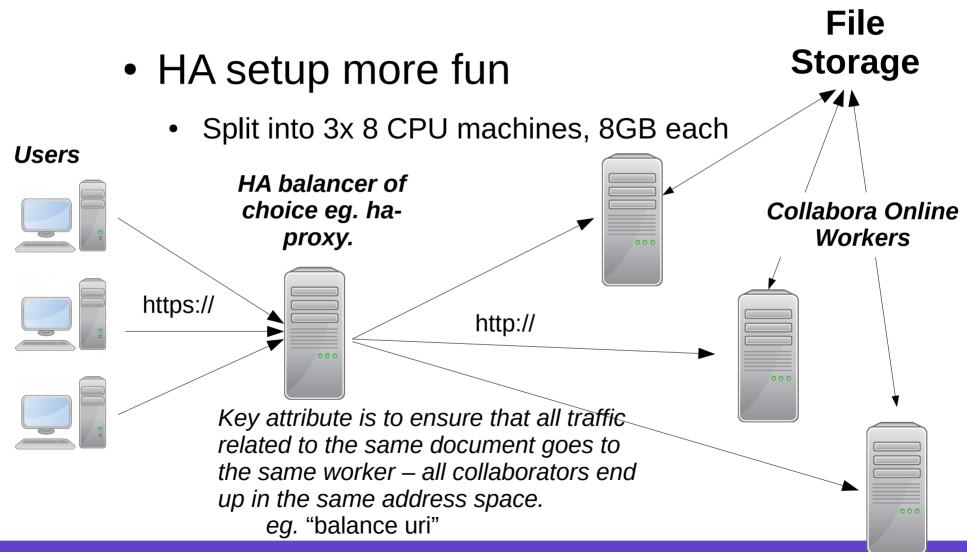


LibreOffice Online: supported everywhere:

Partners – will distribute Collabora Online integrated with their products



HA / setup ...



Sample / Hardware Sizing

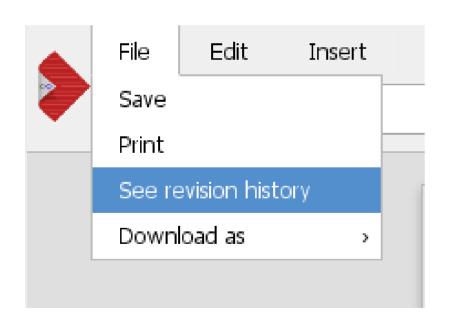
- Guidelines:
 - 10 users / CPU thread
 - 100Mb RAM / user
 - 100kbit/s / user
- Capacity factor → not a hoster ...
- Worked example: my laptop
 - 1Gbit → 10,000 users
 - 16Gb → 160 users
 - 8 threads → 80 users.

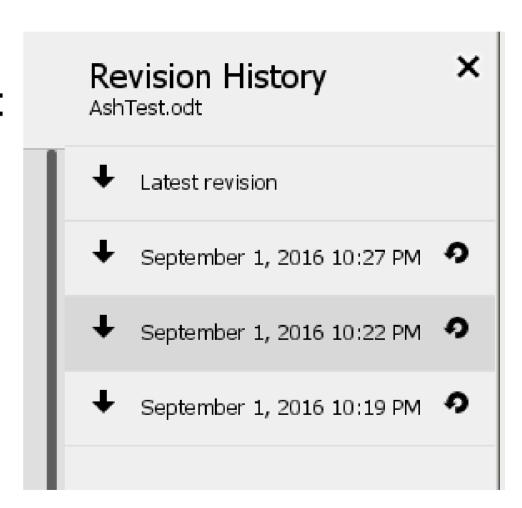


More details:

Revision Control:

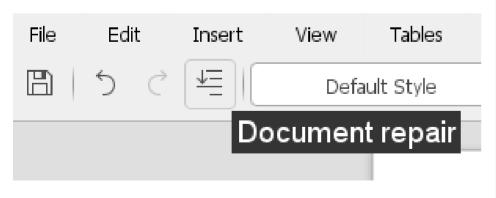
View and restore previous versions:





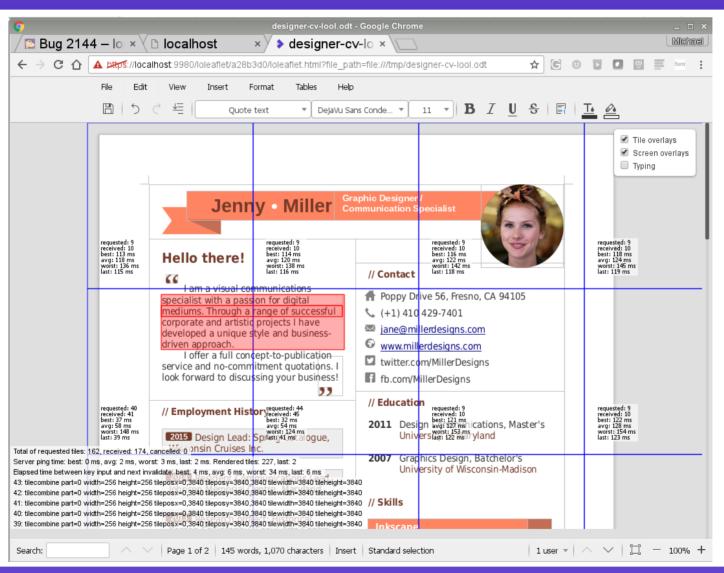
Editing / Undo collisions etc.

Repair Document: conventional undo/redo simply solves editing conflicts.



Туре	Index	Comment	View ID	Timestamp	ĺ
Undo	0	Insert Image	2	2016-09- 01T21:52:18,628396048	
Undo	1	Insert table: 'Table1'	2	2016-09- 01T21:52:11,777609331	
Undo	2	Typing: 'Enter'	2	2016-09- 01T21:52:05,103527646	
Undo	3	Delete paragraph	2	2016-09- 01T21:52:04,737246817	
Undo	4	New Paragraph	2	2016-09- 01T21:52:04,240850664	
Undo	5	Delete '/'	2	2016-09- 01T21:52:04,010198873	
Undo	6	Replace: "-> '/'	2	2016-09- 01T21:52:03,047257372	
				001000	

Debugging Tiled Rendering:



LibreOffice 5.3 due Feb 2017.

LibreOffice 5.3

a random selection

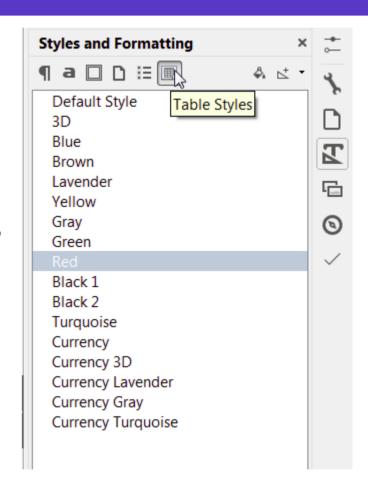
- Firebird 3.0 (Wastack, Lionel, Stephan B (RedHat))
 - Now using archive format, but not 2.5 compatible
 - Hopefully deprecating HSQLDB permanetly.
- Chart: improved line formula bits (Laurent BP)
- UI
 - Notebookbar (Samuel (CIB), Jay, Kendy (Collabora), Heiko)
 - Keyboard shortcuts visible in context menus (Maxim Monistarsky)



LibreOffice 5.3

a random selection

- Writer
 - Table styles fun: UNO,
 ODF file-formats,
 partial UI thanks to (Jakub
 Trzebiatowski, GSoC 2016; Miklos
 Vajna, Collabora; Jan Holešovský,
 Collabora; Yousuf Philips)
- Existing PDF document signing
 - Improved SHA512 crypto etc. Miklos Vajna, Tor Lillqvist (Collabora)





Conclusions

- Thanks for your support!
- LibreOffice / Collabora Online Demo
 - https://www.collaboraoffice.com
- Collabora Online Development Edition (CODE)
 - Tech details, test: https://www.collaboraoffice.com/code/
- Participate in the project
 - Code http://cgit.freedesktop.org/libreoffice/online/
 - Integration https://github.com/owncloud/richdocuments
 - API https://www.collaboraoffice.com/collabora-online-editor-api-reference/
- Thanks to the awesome LibreOffice Community!
 - Without you, it couldn't be done & it wouldn't be fun.

Oh, that my words were recorded, that they were written on a scroll, that they were inscribed with an iron tool on lead, or engraved in rock for ever! I know that my Redeemer lives, and that in the end he will stand upon the earth. And though this body has been destroyed yet in my flesh I will see God, I myself will see him, with my own eyes - I and not another. How my heart yearns within me. - Job 19: 23-27