

Cyrus IMAP 3 and JMAP development

Please see: [blogpost16-WikiSuite-will-now-support-all-major-Linux-distros](#). While [ClearOS](#)'s mail stack is powered by [Cyrus IMAP](#), [Virtualmin](#)'s mail stack is with Dovecot, so we will focus on efforts there. This page is kept for posterity.

WikiSuite will add support for [JMAP](#) via a combination of contributions to [Cyrus](#), [Cypht](#) and the [IETF standardization process](#).

[Cyrus 3.2](#) with [JMAP](#) support is planned for March 2020.

On July 14 and 15, 2018, WikiSuite team members were at the [July 2018 JMAP IETF Hackathon in Montréal](#), which was a follow-up to the March 17 and 18, 2018 event, where WikiSuite team members joined [Fastmail](#) at the [IETF 101 Hackathon](#) to work on JMAP. -> [2018 XMPP](#), [WebRTC](#) and [JMAP Hackathons in London](#)

As of 2019, the reference implementation is on ClearOS, but the future production implementation will be using containers.

ClearOS's 7.x's mail server is Cyrus IMAP 2.x This page is to coordinate testing of upcoming Cyrus IMAP 3.x, which brings new features such as [CalDAV](#), [CardDAV](#) and [JMAP support](#).

Status

A lot of work is happening on the [JMAP](#) spec and associated code. We'll update [cyrus.suite.wiki](#) in ~~November or December 2017~~ [January February 2018](#) before the event to the latest developer snapshot.

Keep informed of JMAP-related work on Cyrus

- [issues related to JMAP on Github](#)
- Weekly updates on the [Cyrus-devel Mailing list](#)

Code

- <https://github.com/cyrusimap/cyrus-imapd> (Cyrus)
- <https://gitlab.com/clearos/upstream/centos/cyrus-imapd/tree/clear7> (Cyrus 2.x app for ClearOS)
- <https://gitlab.com/clearos/clearfoundation/app-smtp> (Postfix app for ClearOS)

Commits

JMAP spec

Recent Commits to jmap:master oauth: publish -02	Recent Commits to cyrus-imapd:master Merge pull request #5588 from elliefm/v313/cass-syslog-fixes
oauth: Require resource metadata support	Merge pull request #5317 from elliefm/v313/cyr-1676-cron-events
oauth: Semantic scopes	Master.babysit: sleep after last kill too
EmailPush: v01	master/event: log warning when rescheduling late
EmailPush: Update reference to JMAPACCESS	docs: describe naivety of cyrus.conf(5) cmd="..." parsing
EmailPush: editorial clarifications	docs: add changes file
EmailPush: Rename EmailDeliver - EmailPush	docs: cyrus.conf examples now use cron= instead of at=
EmailPush: Add ability to set urgency	docs: update cyrus.conf(5) man page for cron events
Update calendars to v23	master/event: retire hourmin events
Update references to JSCalendar to bis draft	Master: add test for bad at=hhmm events

What is new in Cyrus 3.x

- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.0.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.1.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.2.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.3.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.4.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.5.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.6.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.7.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.8.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.9.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.10.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.11.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.12.html>
- <https://www.cyrusimap.org/imap/download/release-notes/3.0/x/3.0.13.html>

cyrus.suite.wiki

cyrus.suite.wiki is a shared development and testing server. Once the testing period is over, the server will be deleted so don't store any real data on this server. If you would like server access, please contact Marc Laporte

Urls

You can replace **test** with your login and follow the pattern below

User management

<https://cyrus.suite.wiki:81/app/users> (you need root access). And users need to login via IMAP for their account to be properly set up.

CalDAV

<https://cyrus.suite.wiki/dav/calendars/user/test>

CardDAV

<https://cyrus.suite.wiki/dav/addressbooks/user/test/>

RSS

<https://cyrus.suite.wiki/rss/user/test>

IMAP and SMTP

IMAP

port 143
server: cyrus.suite.wiki
username: login (not full email)

SMTP

port: 25?
server: cyrus.suite.wiki
username: login (not full email)
not working for me

IMAPS

SSL
port 993
server: cyrus.suite.wiki
username: login (not full email)
not working for me

SMTPS

SSL
port: 587
server: cyrus.suite.wiki
username: login (not full email)
not working for me

JMAP webmail

Test URLs, automatically logged in, as a different user:

- <http://cyrus.suite.wiki:8080/> (test inbox provided by upstream)
- <http://cyrus.suite.wiki:8080/user-nikola.html>
- <http://cyrus.suite.wiki:8080/user-test.html>

Old non-working attempt

[+]

- <https://cyrus.suite.wiki:81/jmap-demo-webmail/> (not working yet)

The webmail demo is installed, but it looks like the authentication layer in the client is different than what is expected in Cyrus? I updated the JMAP.auth.didAuthenticate block in /usr/share/jmap-demo-webmail/app/state.js as described in the JMAP webmail demo [docs](#), but I see 401 unauthorized replies.

Here's the URL of the webmail demo - please make sure your adblocker is disabled!

<https://cyrus.suite.wiki:81/jmap-demo-webmail/>

It's installed in /usr/share/jmap-demo-webmail. Use "git diff" to see the minor changes.

```
[root@cyrus jmap-demo-webmail]# pwd /usr/share/jmap-demo-webmail [root@cyrus jmap-demo-webmail]# git diff --git
a/app/state.js b/app/state.js index 82ec7a4..f1b5310 100644 --- a/app/state.js +++ b/app/state.js @@ -348,9 +348,9 @@
App.kbshortcuts var userPath = ( /k=([0-9a-f-]+) ).exec( location.href ) || [ ' ', ' ' ][1]; JMAP.auth.didAuthenticate({ - username:
'user@example.com', - accessToken: 'password', - apiUrl: '/jmap/' + userPath, + username: 'test', + accessToken: 'wikisuite', +
apiUrl: 'https://cyrus.suite.wiki/jmap', eventSourceUrl: '/events/' + userPath, uploadUrl: '/upload/' + userPath, downloadUrl: '/raw/'
+ userPath + '/{blobId}/{name}' diff --git a/index.html b/index.html index 330c622..1c7b9f6 100644 --- a/index.html +++
b/index.html @@ -10,7 +10,7 @@ </head> <body> <!-- Comment out the following line to talk to a real server --> <script
type="text/javascript" src="fixtures.js"></script> +<!-- script type="text/javascript" src="fixtures.js"></script --> <script
type="text/javascript" src="libs/Overture.js"></script> <script type="text/javascript" src="libs/timezones-raw.js"></script>
[root@cyrus jmap-demo-webmail]#
```

Confirmation that JMAP is working

```
[root@cyrus ~]# curl -X POST -H "Content-Type: application/json" -H "Accept: application/json" --user test:wikisuite -d
'[{"getCalendars", {}, "#1"}]' http://localhost/jmap/ [{"calendars", {"accountId": "test", "state": "15", "list": [{"id": "Default", "x-
href": "/dav/calendars/user/test/Default", "name": "personal", "mayReadFreeBusy": true, "mayReadItems": true, "mayAddItems": true, "m
ayModifyItems": true, "mayRemoveItems": true, "mayRename": true, "mayDelete": true}], "notFound": null}, "#1"}] [root@cyrus ~]#
```

```
[root@cyrus ~]# curl -X POST -H "Content-Type: application/json" -H "Accept: application/json" --user test:wikisuite -d '[
"getMailboxes", {}, "#0"]]' http://localhost/jmap/
[["mailboxes", {"accountId": "test", "state": "23", "notFound": null, "list": [{"id": "23b8b283-54b2-4953-83b1-
dddfdf50d1ab", "name": "Inbox", "mustBeOnlyMailbox": false, "mayReadItems": true, "mayAddItems": true, "mayRemoveItems": true, "m
ayCreateChild": true, "totalMessages": 1, "unreadMessages": 0, "totalThreads": 1, "unreadThreads": 0, "parentId": null, "mayRename": fals
e, "mayDelete": false, "role": "inbox", "sortOrder": 1}, {"id": "5e8d9e35-76a6-4a54-9bb4-
e8625f908670", "name": "Drafts", "mustBeOnlyMailbox": false, "mayReadItems": true, "mayAddItems": true, "mayRemoveItems": true, "m
ayCreateChild": true, "totalMessages": 1, "unreadMessages": 1, "totalThreads": 1, "unreadThreads": 0, "parentId": null, "mayRename": tru
e, "mayDelete": true, "role": null, "sortOrder": 10}, {"id": "3334d6fb-
f621-4b7b-9634-93eb193023d2", "name": "Trash", "mustBeOnlyMailbox": false, "mayReadItems": true, "mayAddItems": true, "mayRemo
veItems": true, "mayCreateChild": true, "totalMessages": 0, "unreadMessages": 0, "totalThreads": 0, "unreadThreads": 0, "parentId": null, "
mayRename": true, "mayDelete": true, "role": null, "sortOrder": 10}], "#0"]} [root@cyrus ~]#
```

Notes for future documentation page

How to install

1. Set up MX records
2. install the eGloo release package: rpm -Uvh
http://mirrors.egloo.ca/egloo/clearos/7.3/stable/x86_64/egloo-release-7-2.noarch.rpm
 - This will be simpler in the future
3. Then install the IMAP and SMTP apps:

```
yum --enablerepo=egloo-clearos-devel install app-imap app-smtp
```

4. You will also need to do the following:
 - Create the default SSL certificate via the “System - Settings - Certificate Manager” app.
 - Create a user with IMAP and SMTP enabled.
 - Login via an IMAP client in order to create a mailbox for the user.

Optional: How to install Mail Forwarding on ClearOS

How to use

- The extra features (CalDAV, CardDAV and JMAP) run on port 80 and/or 443, so Cyrus IMAP interferes with web server. On this dev server, we use port 8080 for the JMAP client
- See URLs patterns above

Clients tested

DAVdroid

Automatic detection from email doesn't work but entering username, password and base URL works

Questions

- Is it possible to have a logout feature? (which would make it easier to test with different accounts)

Known bugs / limitations

Accounts created in ClearOS are not reliably setup for CalDAV and CardDAV.

Solution: login to the account via IMAP.

For developers

- <https://github.com/cyrusimap/cyrus-imapd/blob/master/docsrc/imap/developer/jmap.rst>
- <https://www.cyrusimap.org/imap/developer/jmap.html>
- <https://medium.com/linagora-engineering/you-cant-do-imap-in-the-browser-can-you-208838b0ba17>
- <http://jmap.io/server.html>
- **Cyrus release process - switching to odd-even release cycle:** "3.1.x releases will only ever be snapshots of the master branch, and should be considered for testing purposes and bleeding-edge features only. We will try to release these snapshots at

coherent development points, but there will generally be large breaking changes occurring between releases in this series. At some point in the distant future, the next stable release series will be 3.2, which will aim to include the stabilised versions of the features developed/tested in the 3.1 releases."

- <https://github.com/r00tat/cyruip>