



Chris Davies


FastMail QA

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Slides: www.CuriosityKilledThe.Cat

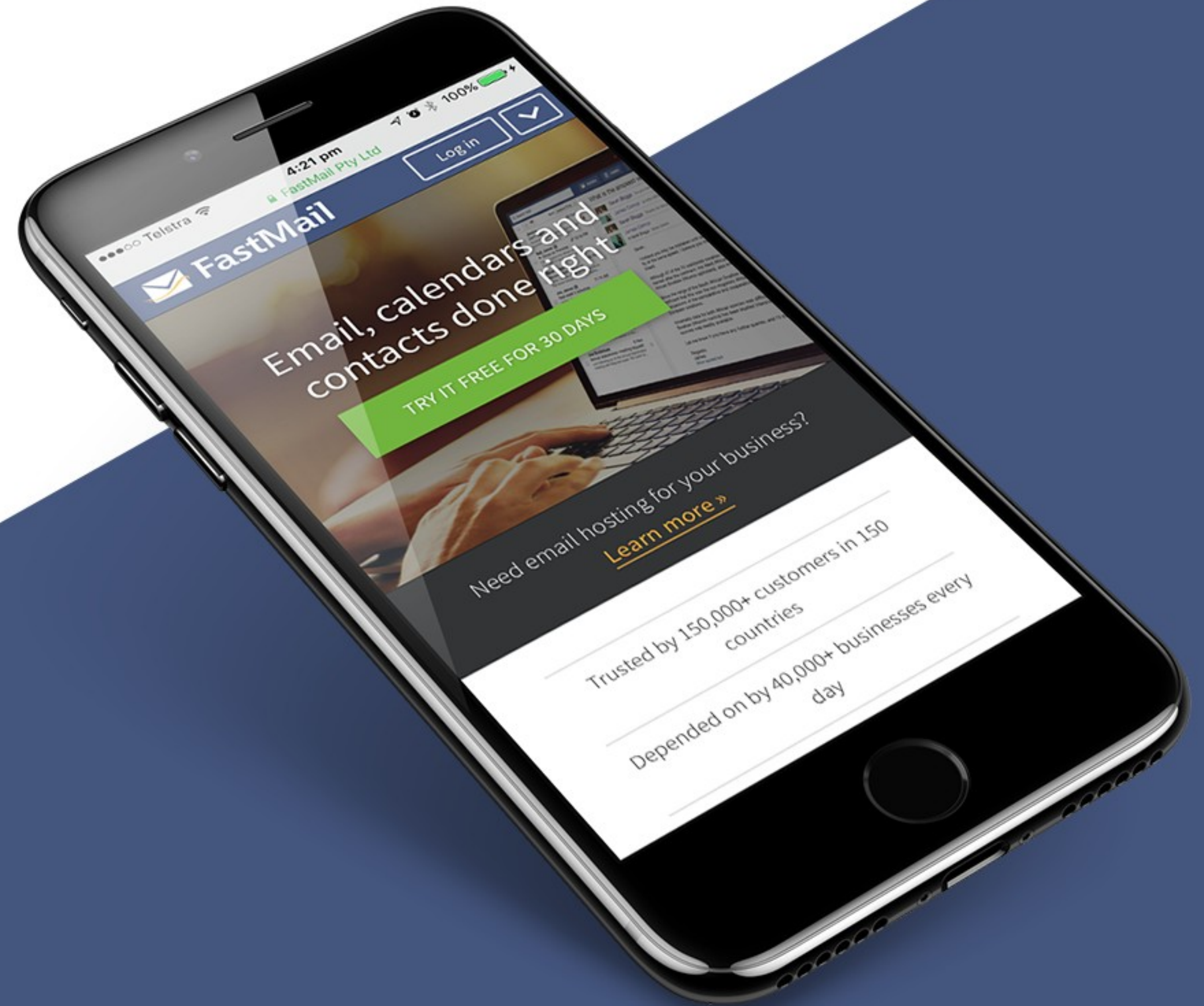


Introduction: Chris


- Previously worked at Sonus networks, Sophos, Symantec
 - More info in recent blog post
(<https://blog.fastmail.com/2016/12/18/interview-chris/>)
- 




FastMail



FastMail: Company Overview

- Based in Melbourne, Australia
 - Company history
 - Contribute towards Cyrus IMAP (<https://www.cyrusimap.org>)
 - NIH syndrome = lots of cool stuff
 - Grown 2-3x in recent years
 - Evolving development/release process
- 

Service Overview: Lots of things!

- Email Webmail & IMAP
 - Calendar & CalDAV
 - Contacts & CardDAV
 - Notes & IMAP Notes
 - Web hosting & DNS
 - Virus, Spam & Phishing Protection
 - File storage
 - Multi-user accounts & user management
 - Billing integration : Bitcoin, PayPal & payment providers
 - Tamper-proof email archiving
 - Import & Export all your data
 - 2FA
 - Shared: folders, contacts,
 - Backup & Restore
 - Rules + sieve scripting
 - Photo gallery
 - Mobile apps
 - Custom login pages
 - Email disclaimers
 - Referral system & discounts
 - Lots more...
- 

30-day free trial & 25% discount

<https://www.fastmail.com/lca2017>



Our Technology

Technology Overview



FastMail.com

<https://www.fastmail.com>
(Subscription based email service)

Middleware

Perl, Debian Jessie, NGINX

Cyrus IMAP

<https://cyrusimap.org> (FOSS)

Test Frameworks & Tools

Testing

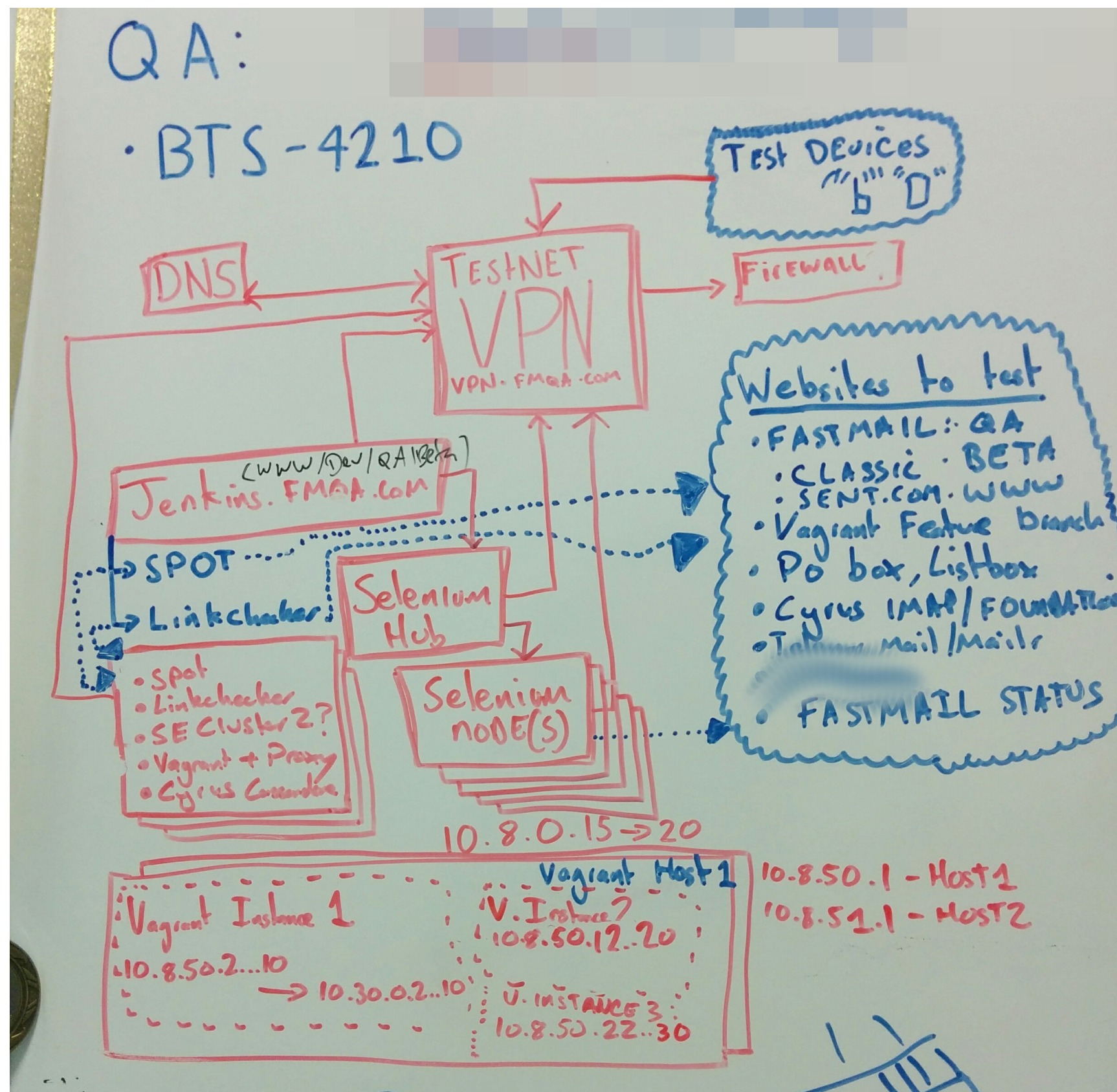
- FMQA.com : FastMail internal test network
- Cyrus.works : Cyrus testing
- Example.fm : Manual testing



Test Frameworks & Tools : FMQA.com

FMQA.com: Before

- A few test servers locked down with Firewall rules
- 3rd party testing services = unreliable + expensive
- So, I designed & created a test network



FMQA.com: After

- BladeCenter
- Test network (Selenium grid, Jenkins, Docker,...)
- Everything is now in Git
- Everything is now in Docker
- Everything can be reinstalled in < 1 hour
- Everything in house = near unlimited tests at no cost



Setup a VPN in < 2 minutes

```
wget https://git.io/vpn -O openvpn-install.sh && bash openvpn-install.sh
```



FMQA.com: LinkChecker



Page not found

Sorry, we can't find the page you're looking for.

The link you followed is probably out of date. If you typed an address, check it carefully. If all else fails, use the links above or jump straight back to our [homepage](#).

Our service

- [Log in](#)
- [Overview](#)
- [Business hosting](#)
- [Pricing](#)
- [Sign up](#)

Support

- [Help centre](#)
- [Contact us](#)
- [System status](#)
- [Download the app](#)
- [Report a security issue](#)

News

- [Blog](#)
- [Twitter](#)
- [Facebook](#)
- [Google+](#)
- [LinkedIn](#)

About us

- [Company information](#)
- [Media](#)
- [Jobs](#)
- [Privacy policy](#)
- [Terms of service](#)




FMQA.com: LinkChecker

- Simple to setup & use, quickly find broken links
- Download from: <https://sourceforge.net/projects/linkchecker/>
- Example



FMQA.com: @Bort


- Our SlackBot
 - Available for download
 - <https://github.com/robn/bort>
 - JIRA->YouTrack->Bort
 - YouTrack integration
- 

FMQA.com: @Trob

- Test RoBOT
- Lives on Test Network
- Talks to Jenkins

Demo 1: @Trob

SPOT: BBC Wraith

- Free screen comparison tool:
 - <https://github.com/BBC-News/wraith>
 - SlackTee posting tool
 - <https://github.com/course-hero/slacktee>
- 

Demo 2: SPOT

<http://spot.fmqa.com/bmpktcaiz/gallery.html#helpclientsapplist>

Demo 2: SPOT

List of screenshots for
/spot/shots_new taken 2016/08/03
11:25:35

Pages:

/Howtsetupaliases



/helpclientsapplist



1366px - /Howtsetupaliases



beta

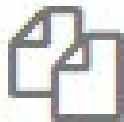


latest




diff

4.75 % different



Demo 2: SPOT



Our service

Sign up

Support

Blog

Log in

Help & Support

Receive, Organise & Find Mail

Set up aliases

How to set up aliases

What is an alias?

Create an alias

Disable an alias

Remove an alias

Alias target

Catchall alias

External targets and SRS rewriting

How many aliases can I have?

What is an alias?

An **alias** is an additional email address you can create that will also deliver to your Inbox.

Aliases allow you to have different email addresses which all deliver to your one FastMail account, without needing to buy multiple accounts. This can help you to sort email. For example, you might have a `sales@mydomain.com` address for sales inquiries, and a `press@mydomain.com` address for news inquiries.


A **distribution list** is a type of alias, where the target is a group in your address book. Any message sent to the alias is forwarded on to all members of the group. This makes it easier to manage an address such as `sales@example.com` that needs to be distributed to a group of people. Distribution lists are intended to be for internal use only

Only administrators for a business or family account can configure aliases. Personal accounts can manage their own aliases.

Aliases cannot be used as your username when you log in; you must always use the full account username.

How to create an alias

To add a new alias:

1. Open the  Settings Aliases screen.

2. You'll see a table with any current aliases you have. Use the "New Alias" button to add a new entry.

New Alias

Aliases can be used to direct email to other users, even non-FastMail ones. See the Deliver to section below for a detailed description of how delivery works.

Email: techsupport

@mydomain.com

FMQA.com: Notifications

- Flashing lights: <https://blink1.thingm.com/>
 - Monitors Jenkins
 - Ambo code : <https://github.com/FMQA/ambo>
- 

Demo 3: Ambo

Test Frameworks & Tools:
<https://www.cyrus.works>

Cyrus.Works?


- Backend testing
- Open source project
- Developers working around the globe

Cyrus.works Jenkins: Automated setup

- <https://www.cyrus.works>
- Code : <https://github.com/cyrusimap/cyrusworks>

Cyrus Jenkins: Branding

Jenkins plugin : <https://wiki.jenkins-ci.org/display/JENKINS/Simple+Theme+Plugin>
Jenkins Theme generator: <http://afonsof.com/jenkins-material-theme/>



Search docs

WELCOME TO CYRUS

Introduction to Cyrus IMAP

IMAP Features

Support

About

ADMINISTRATORS

IMAP Installation Guide

IMAP Configuration Guide

IMAP Administrator Guide

IMAP Frequently Asked Questions

IMAP Release Notes

DEVELOPERS

Contribute

IMAP Developer Guide

CYRUS SASL

SASL Getting Started

SASL Auxiliary Properties

SASL Authentication Mechanisms

SASL Pwcheck

SASL Frequently Asked Questions

Docs v2.5.10 (stable) » Cyrus IMAP

Edit on GitHub

Cyrus IMAP

Welcome to Cyrus IMAP and SASL.

What is Cyrus IMAP?

Cyrus IMAP is an email, contacts and calendar server.


The latest stable version of Cyrus IMAP is 2.5.10. Looking for other versions?

Features

This is the highlight reel of Cyrus’s full list of features.

- **Security:** Cyrus runs on sealed servers, where normal users can’t log in. Users access mail through IMAP/POP or KPOP.
- **Performance and scalability:** The mail spool uses a filesystem layout.
- **Filtering:** Server-side mail filtering via Sieve.
- **Efficiency,** ease of administration: The private mailbox database design gives Cyrus considerable advantages. Multiple concurrent read/write connections to the same mailbox are permitted. The server supports access control lists on mailboxes and storage quotas on mailbox hierarchies.
- **Beyond Email:** Support for CalDAV and CardDAV provides an integrated calendaring and email solution.
- **Scalability:** Cyrus Murder provides horizontal scalability: distributing the load across a pool of servers, without limiting to a particular subset of the IMAP namespace.
- **Authentication:** Supports X.509 PKI auth via STARTTLS and EXTERNAL. Plus all the Cyrus SASL options.

Welcome to Cyrus



search

ADMIN | LOG OUT

DISABLE AUTO REFRESH

Jenkins

New Item

People

Build History

Edit View

Manage Jenkins

My Views

Credentials

Tests running against Cyrus IMAP (cyrusimap.org)

edit description

Allmaster+

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	⚙	master-jessie	12 min - #303	2 hr 20 min - #298	8 min 56 sec

Icon: S M L

Legend RSS for all RSS for failures RSS for just latest builds

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

3 Idle

4 Idle

5 Idle

Page generated: Jan 13, 2017 3:04:56 AM UTC

REST API


Jenkins ver. 2.19.3

Cyrus Jenkins: Security

- Jenkins inside Docker problem: Reach back out to host machine
- Blog post with more technical details:
<https://blog.fastmail.com/2016/12/14/cyrus-works/>

Summary

Summary

- Slides available at www.CuriosityKilledThe.cat
 - QA can work around & support company culture
 - Lots of great FOSS to assist with testing
- 

Thank you



FastMail

Slides: www.CuriosityKilledThe.Cat

