

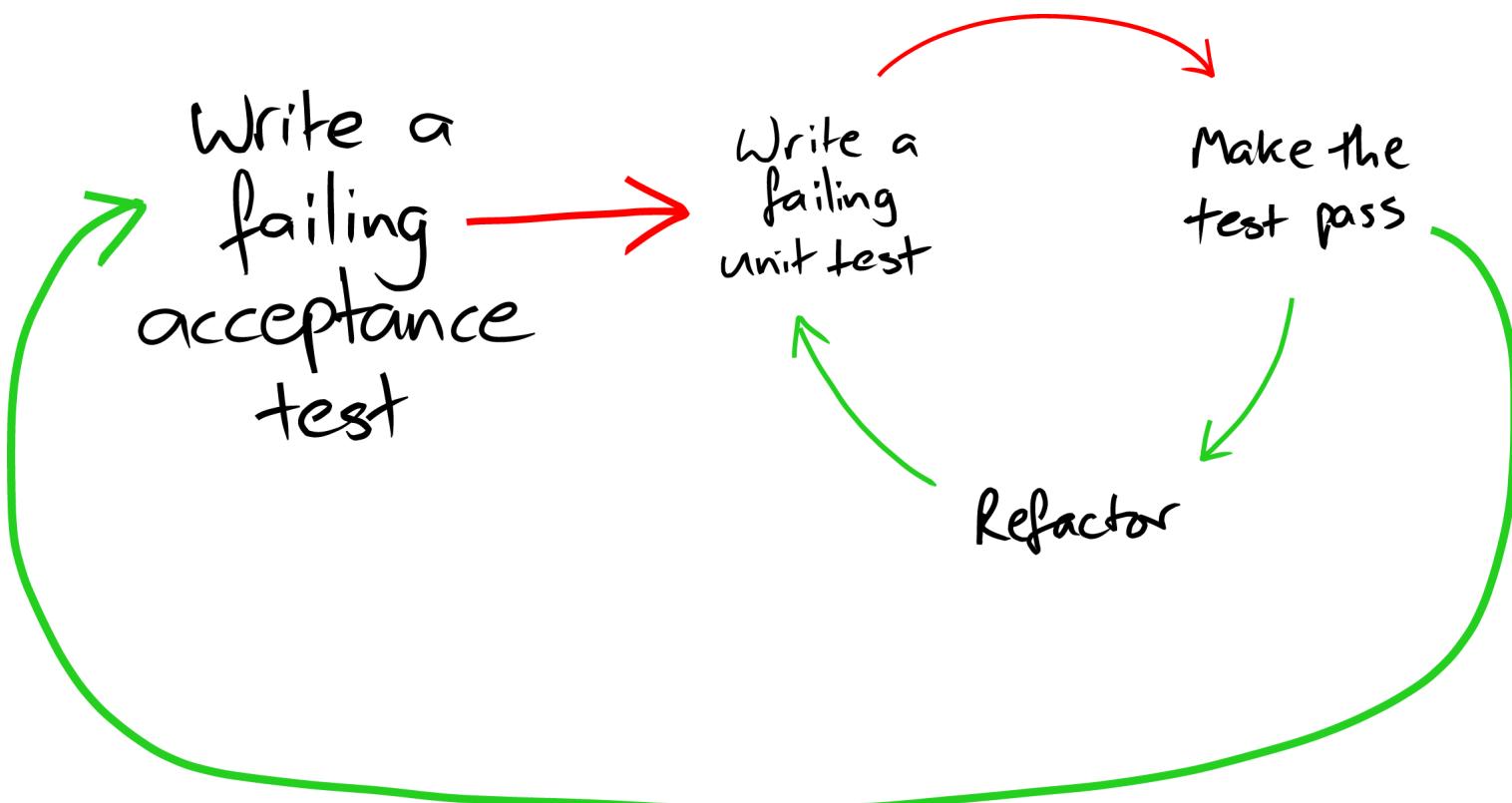
Real-world challenges in migration from traditional ILS to RDF

Rurik Thomas Greenall / @brinxmat

I will be irreverent/rude &
may make fun of system vendors

You want code?

<https://github.com/digibib/ls.ext/>





Each June, we have a ritual
— MARC, the scapegoat,
is slaughtered, to rise again

Focus your ire

nonsense cataloguing rules
navel-gazing staff
inept, in-the-rut vendors
hateful punctuation
fatuous domain leadership
ridiculous systems
pointless routines
things that just don't work



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An **integrated library system** (ILS), also known as a **library management system** (LMS), is an enterprise resource planning **system** for a **library**, used to track items owned, orders made, bills paid, and patrons who have borrowed.

[Integrated library system - Wikipedia, the free encyclopedia](#)

en.wikipedia.org/wiki/Integrated_library_system

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An integrated library system (ILS), also known as a library management system (LMS), is an enterprise resource planning system for a library, used to track items owned, orders made, bills paid, and patrons who have borrowed.

[History](#) - [See also](#) - [References](#) - [Further reading](#)

[Koha - Open Source ILS - Integrated Library System](#)

www.koha.org/ ▾

Koha is the first open-source Integrated Library System (ILS). In use worldwide, its development is steered by a growing community of libraries collaborating to ...

The
Koha
library

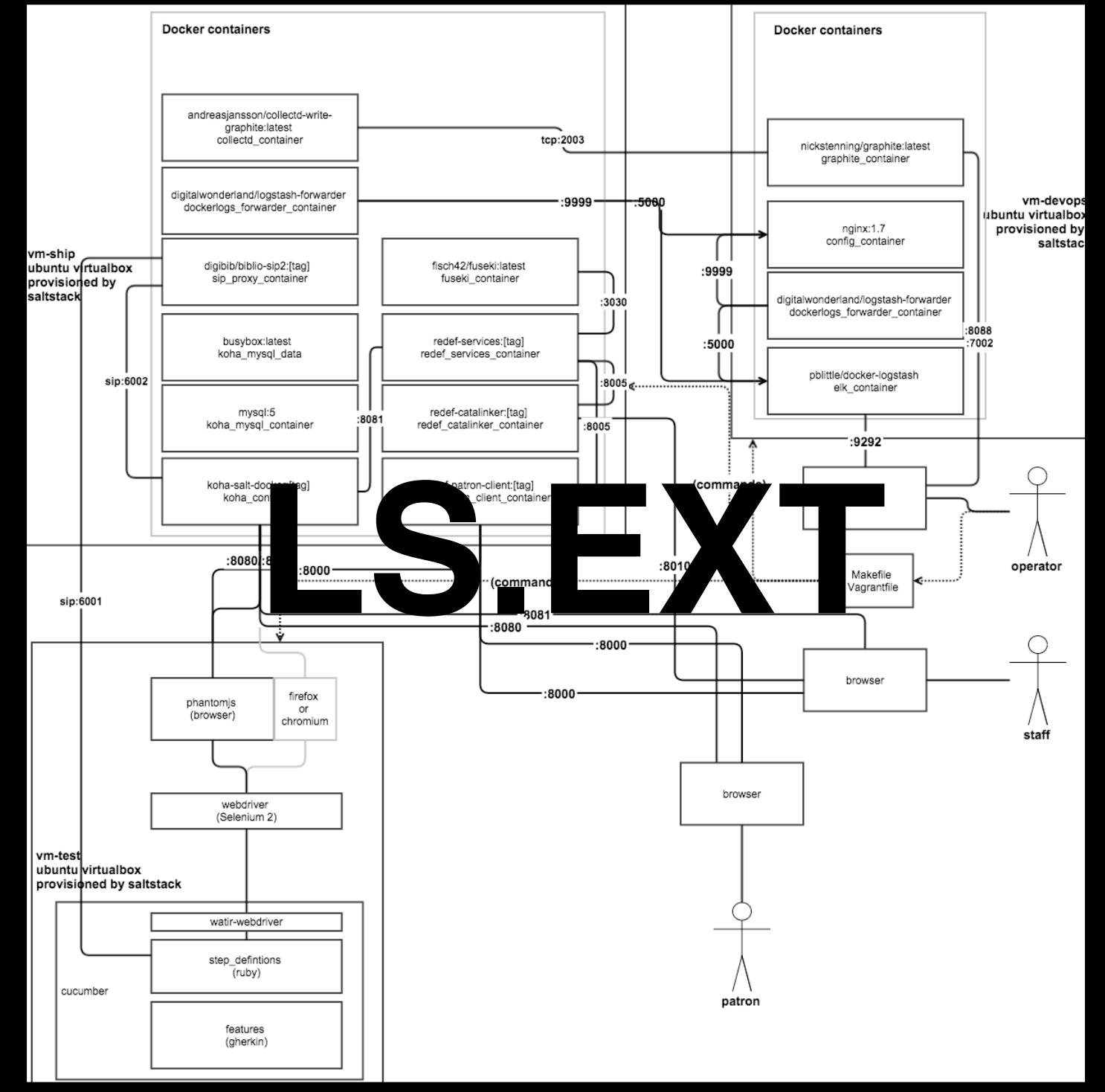
No.

"Jack of all trades, master of none,
Certainly better than a master of one"

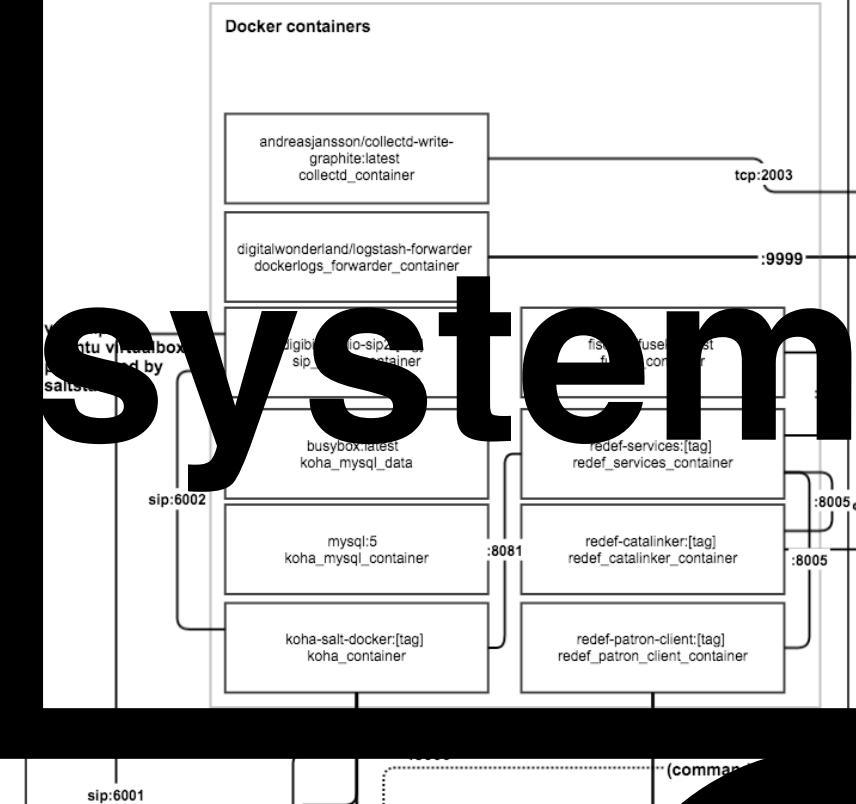
No.

“This is the Unix philosophy:
Write programs that do one thing and do it well.
Write programs to work together.”

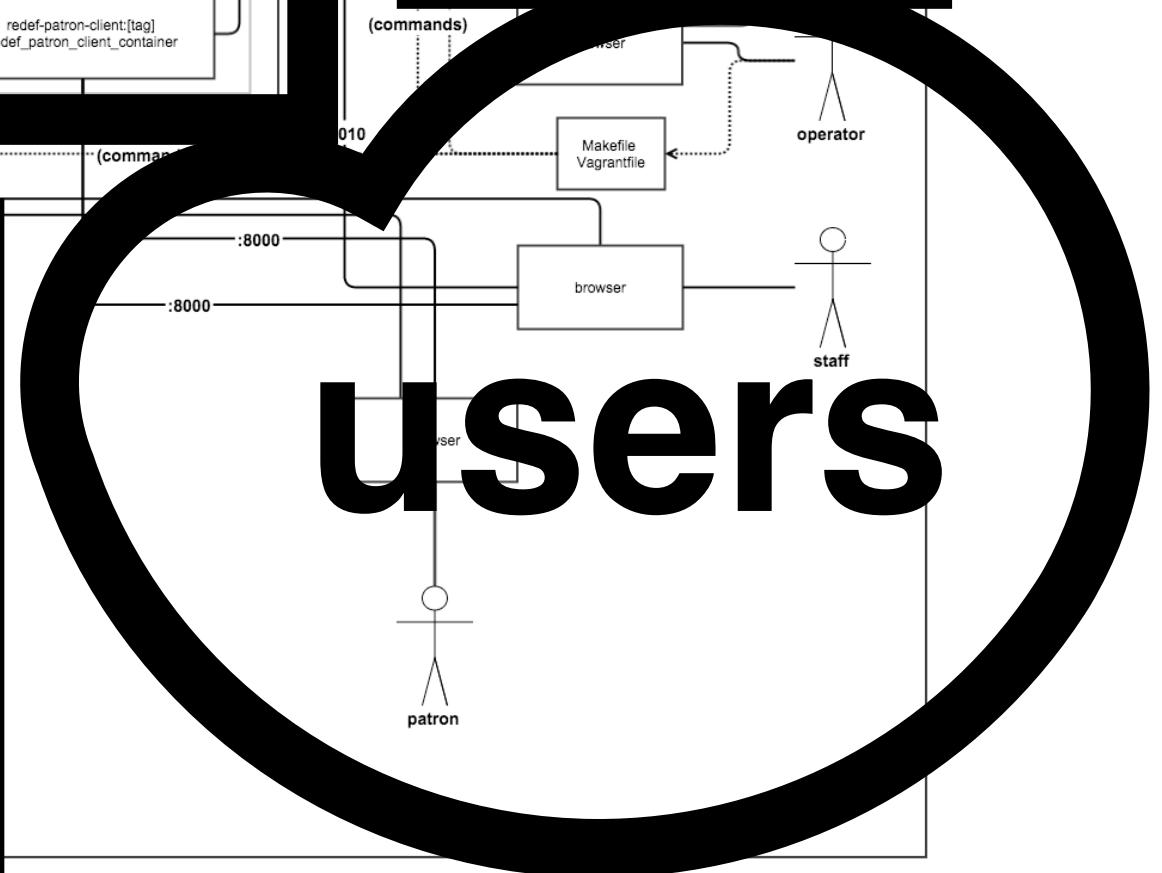
Douglas McIlroy



test

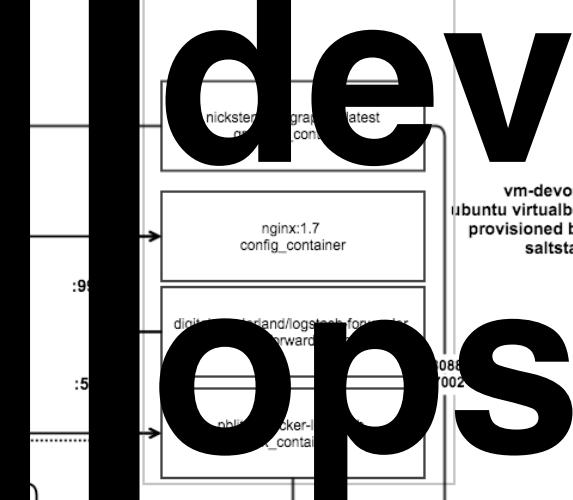


users

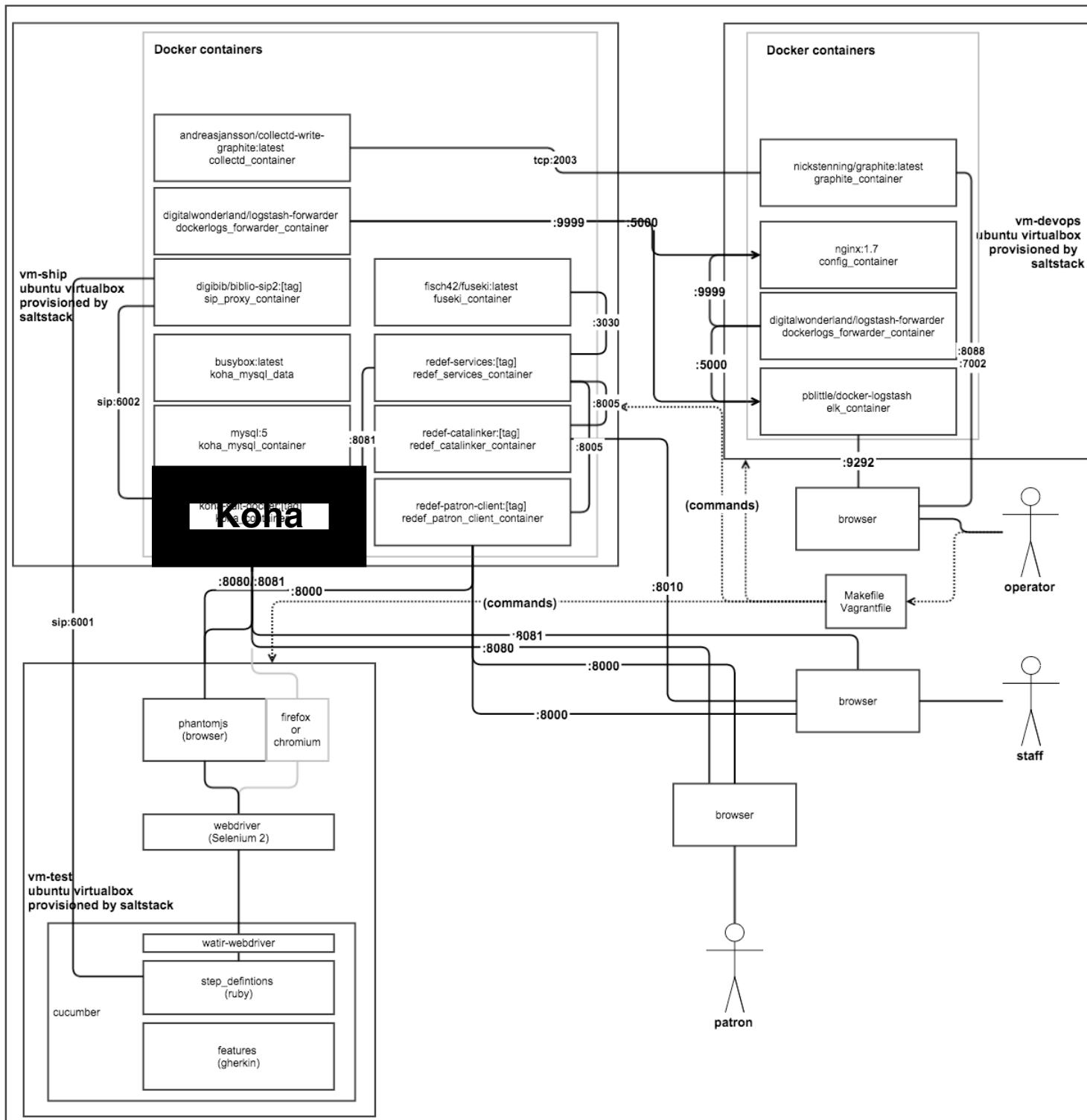


dev

vm-devops
ubuntu virtualbox
provisioned by
saltstack



multi-machine vagrant setup



Sublime thing that will make your users weep at its very beauty and essence

Sublime thing that will make your cataloguers weep at its very beauty and essence

Services layer

Holdings

Users

Bibliographic

Stuff

Stuff

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Services layer

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Stuff

Realization: Users & logistics are a closed world

(if you know some stuff that is known about items or users, then that is what is true)

Realization: Bibliographic data is an open world

(what you know about a resource is only what you know; other people know other relevant things)

RDF is an open world

(you want your bibliographic data in RDF, the other stuff is better stored in a RDBMS)

That isn't to say that other things can't be represented in RDF
(indeed...we do a lot of that)

How are we representing different data?

(easy answer: appropriately...for *our* usage)

Standardization

- Use MARC
- Use BIBFRAME
- Use Linked Data Platform
- Use Linked Data Fragments
- Use ISO XXXX

No.

Our data model

{this slide left intentionally blank}

Reality

- RDF: enough to support use cases like “I can see a work” and “I can see a list of items for a work”
- DB-schema: enough to support use cases like “I can borrow an item” and “I can see statistics report X”, “I can log in as user X with privileges Y”
- Index: enough to support use cases like “I can search for a work/item”

What about...?

- Internal MARC: doesn't really exist except as an abstract *model-ofsorts* for parts of Koha's DB-schema
- External MARC:
 - Input, yes.
 - Output: (no active use case as of yet)
- Internal linked-data model: what we use internally is an evolving, specific ontology for our business case
- External linked data: (no active use case as of yet)

What you do in your system should support your use cases,
not some abstract, idealised standard.

Interacting with others, if that is a use case, requires standards,
but don't let these infect your data model.

I have rambled a while,
but here is what I want you to think about:

- The hardest part of creating a new system is knowing what you need; break that down into simple, owned use cases
- The second hardest part is keeping to that plan; you’re bound to want to develop according to the standards — but which use case does that support?
- Keep doing things “according to the standards” and you have another FRBR: a nice, twenty year-old idea
- Do things that support your users, not things that support supposed, idealised users

...and finally

most of cataloguing is bollocks
that has nothing to do with reality

“With no data on the facts of catalog use,
the cataloging rules look a lot more like a religious text
than an application of science.”

–Karen Coyle

...don't let that stuff mess up your data