

Organizing Erlang Deployments

or just thinking about stuff aloud

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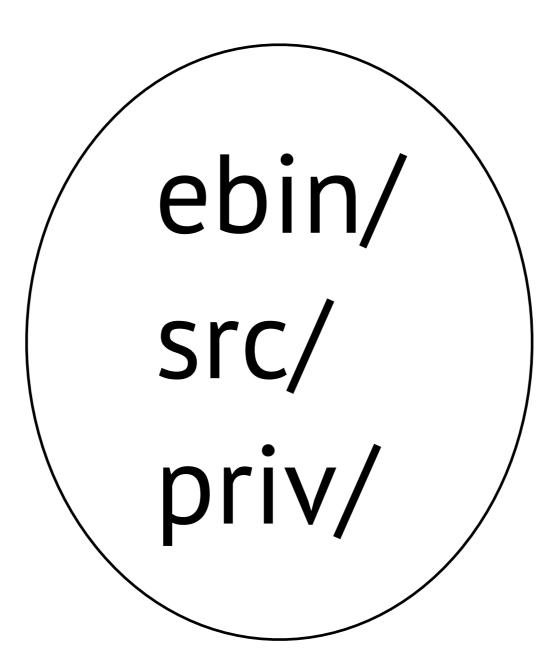
Thursday, 3 November, 11

Good stories don't start at the end...

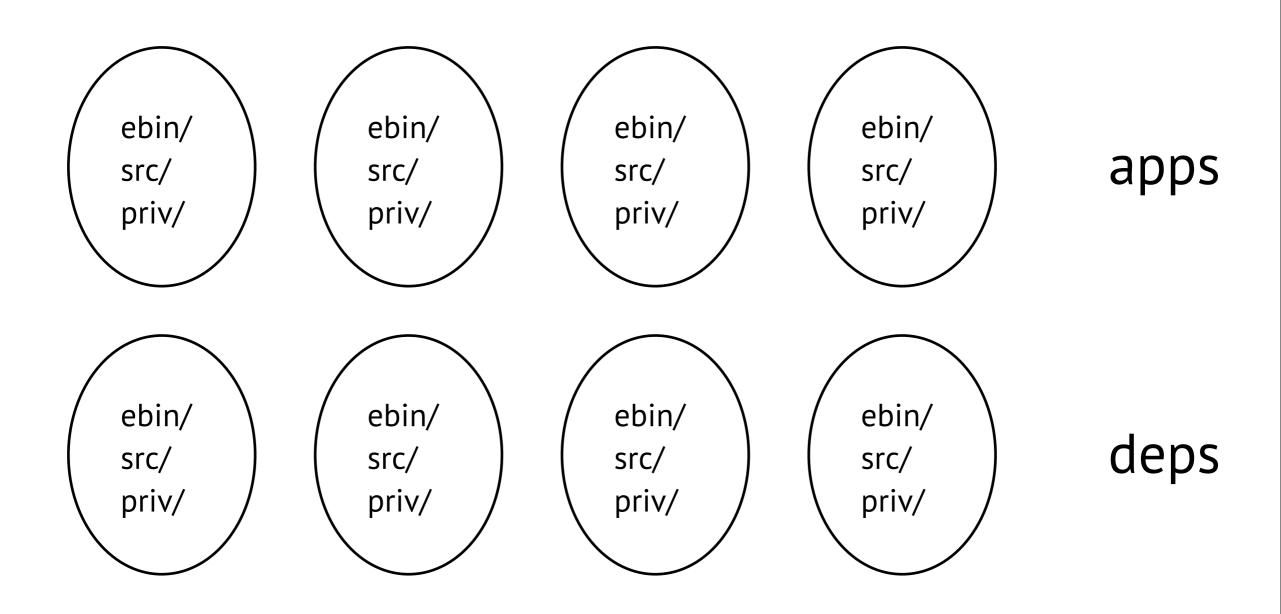
Deployment starts on a developer's machine.

So I'll skip the whole deb/rpm thing for now.

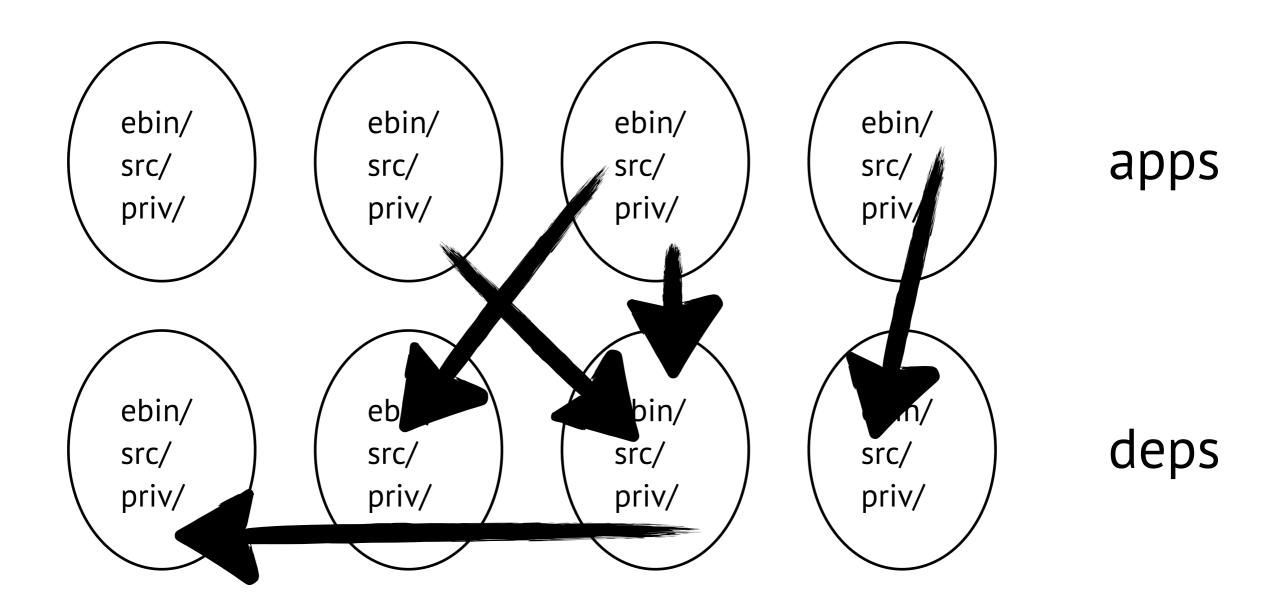
Application



Project



Dependencies



How do we start all this stuff?

Releases

Releases

- Used to be really hard to do.
- 2009: reltool and
- 2010-2011: rebar generate.

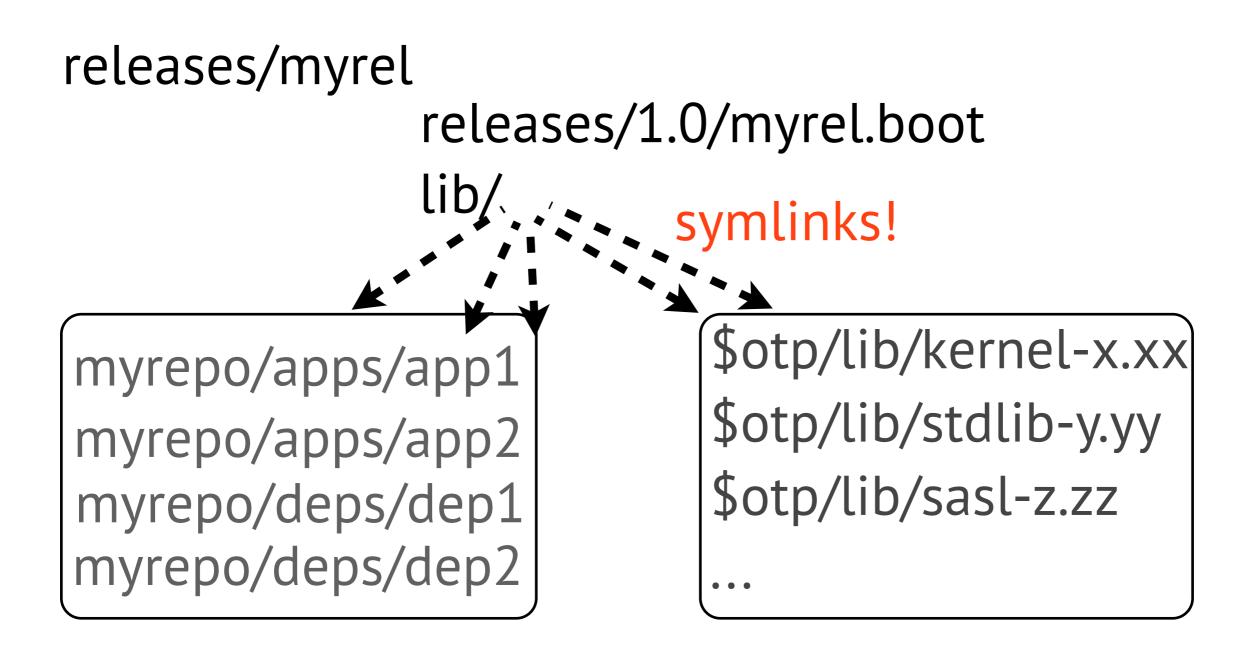
Almost no excuses to not use them.

Yeah, still kind of on a slow side.

Well, there's an app plugin for that.

Quickrel

(essentially, a Quickhack)



Quickrel

(essentially, a Quickhack)

How does it know what should go into the release? Your reltool.config you already have

Quickrel

(essentially, a Quickhack)

https://github.com/spawngrid/quickrel

Not a replacement for real releases

Not really for hot code reload maniacs

But gives you a quick solution when other methods don't

Okay, fine.

How do we get this stuff out to the servers?

You can learn some Ruby and use Chef.

You can learn some Puppet and use Puppet.

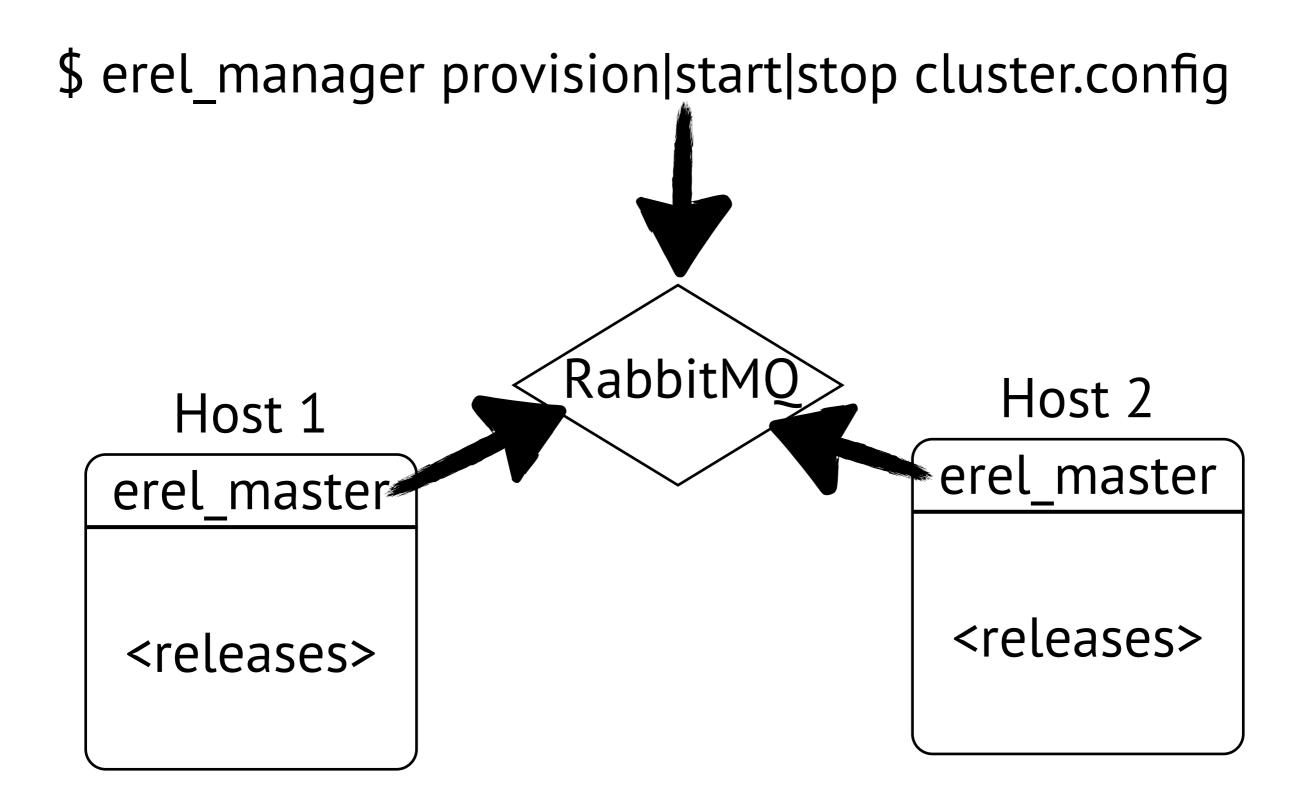
But hey!

How about using Erlang stuff? I mean, seriously.

Besides, there's an app for that.

erel

- Group-based deployment.
- Lightweight, simple config.
- Works with your reltool+rebar releases
- Uses RabbitMQ (moar Erlang!)
 - (can be extended to use other pubsubs)



config file

{group, "Main", ["host1", "host2"]}.
{release, "myrel", "path/to/myrel"}.
{deploy, "myrel", ["Main"]}.

(it will become a bit more flexible soon, though)

Caveat: no pipes!

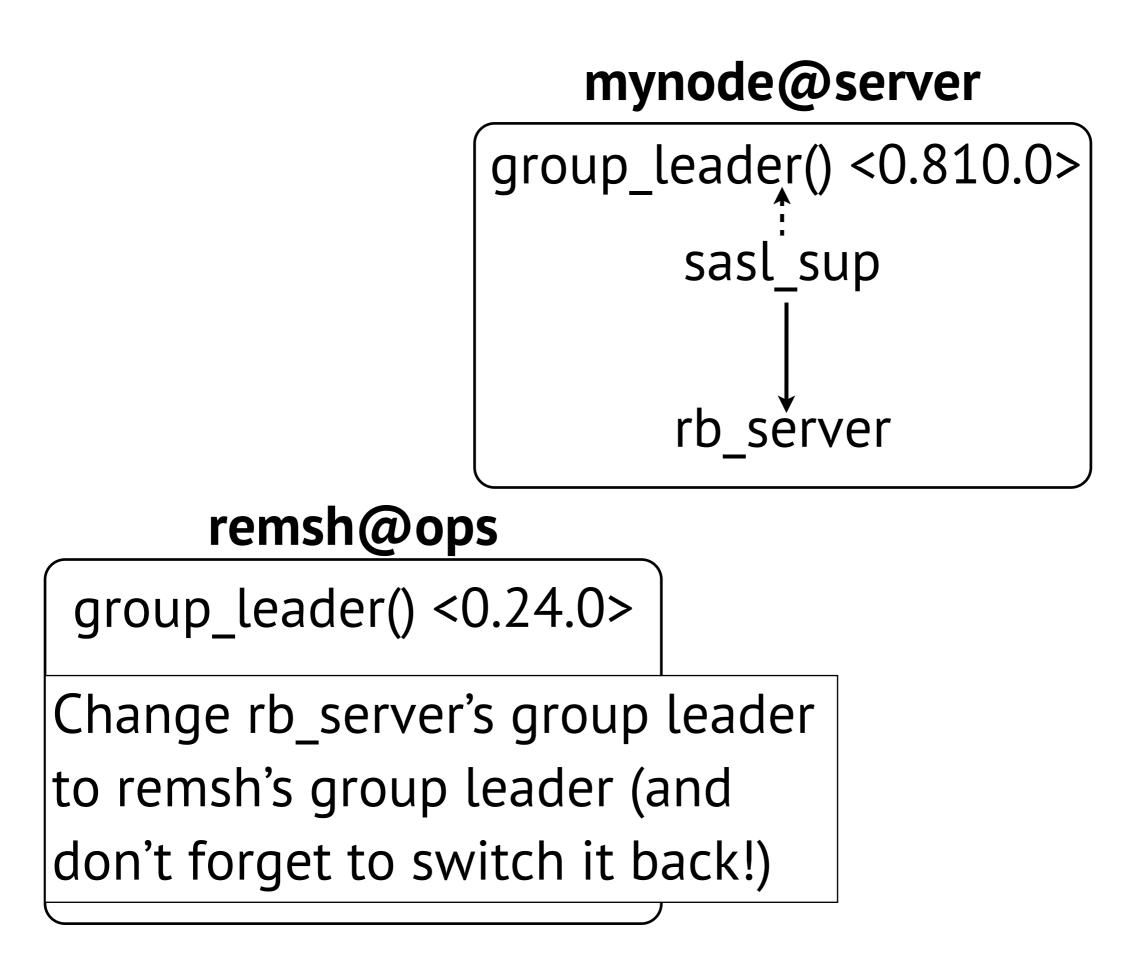
- Can't attach to a deployed node's console
- But can -remsh!

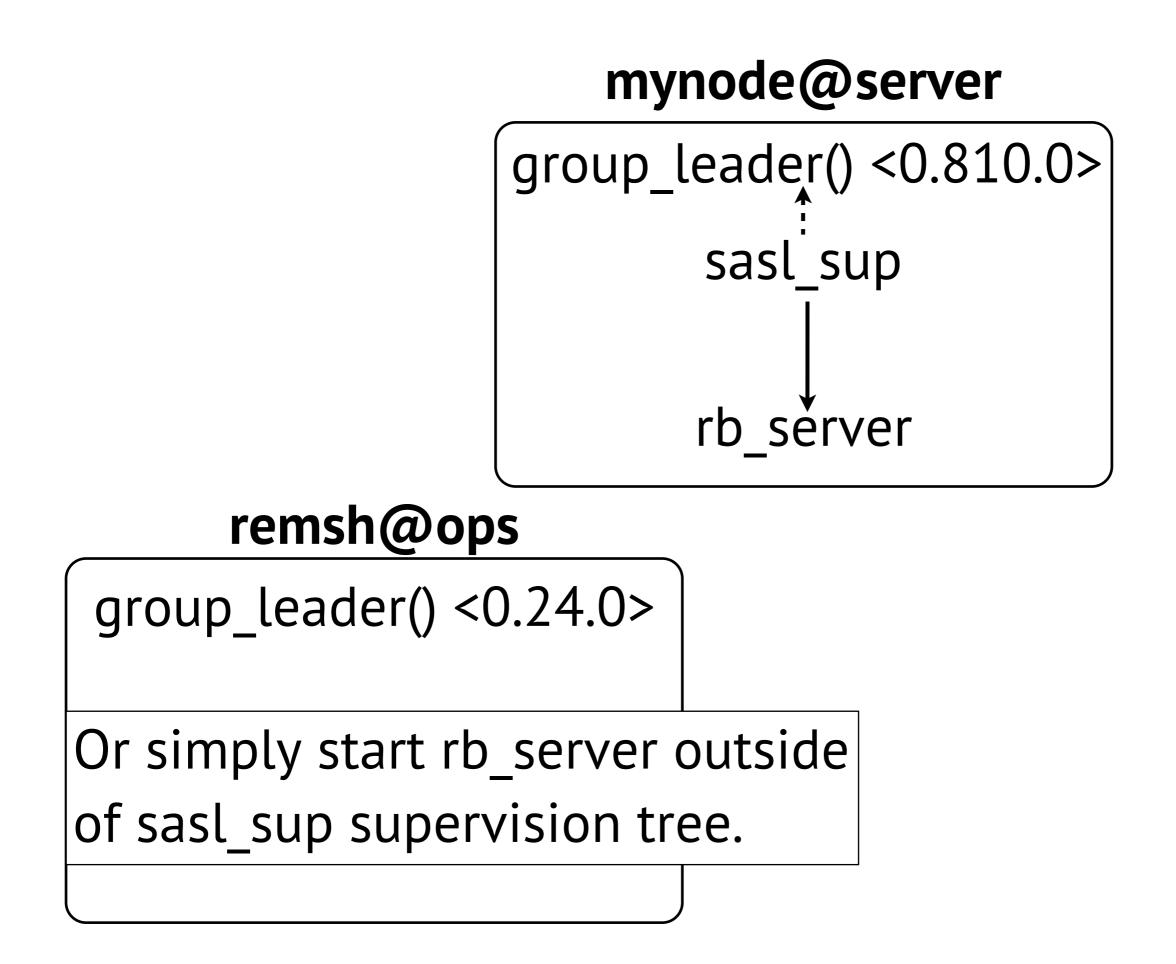
Caveat: no pipes!

- Some would argue that console is sometimes necessary!
- Like, for example, for **rb:list()**.

Caveat: no pipes!

- Well, you don't really need a pipe for that
- Group leaders!





erel

- A very young tool (read: almost ready)
 - 1st release expected by the end of Nov
- Lots of improvements already planned.
- I am sure there are nasty bugs.
 - (would that stop a true Erlanger?)

Lots of improvements planned

- Upgrades (didn't have enough time!)
- Cookie management
- Primitive release monitoring
- Not only "all or none" quorums
- Better quorum recovery (master crashes)
- Something awesome (proper_statem?)

erel

https://github.com/spawngrid/erel

But some of us still need rpm/debs!

Primary motivation: no mind control over sysadmins!

Primary motivation: sysadmins are more comfortable with them.

That's okay. Understandable.

But packaging every app individually is just wrong

Version clashes, =:= ERTS versions, mixed use of 32/64 VMs...

But there's (almost?) nothing wrong with packaging a release into a deb/rpm.

Or erel_master.

I guess I am done.

Questions?

Thanks.