Web Services and Microservices: The effect on vendor lock-in

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Who here doesn't like lock-in?

Most IT Ops people will try to avoid lock-in

Most product developers will pick the best of breed option

DevOps to the rescue!

Erik Rogneby @erikrogneby · Mar 9
@botchagalupe John, do you mind if we thrown your ignite **Deming** 14 point video up on our DevOps page? Brilliant! youtube.com/watch?v=7g3uqS...
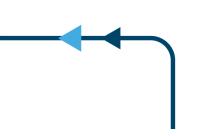
▶ YouTube

John Willis' Ignite talk: "Devops and Dr Deming's 14 Points" (Veloc...

This a rapid paced 20 slide Ignite presentation about Edward Deming and his 14 points. More specifically we will analyze each one of his 14 points as to how ...
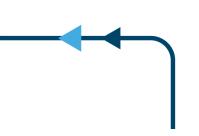
"End the practice of awarding business on the basis of a price tag. Instead, minimize total cost. Move toward a single supplier for any one item, on a long-term relationship of loyalty and trust."

W. Edwards Deming - 4th Point

"End the practice of awarding business on the basis of a price tag. Instead, minimize total cost. Move toward a single supplier for any one item, on a ~~long-term~~ relationship of ~~loyalty and trust.~~"
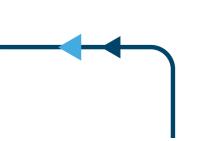dysfunctional   exploitation and abuse

How did we end up here?

Project vs. Product
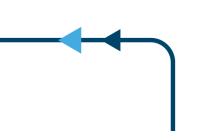
Leads to lock-in

Evolves to follow
best of breed

Evolution

*Technology Refresh
Move to open Source
On-prem -> as a Service*

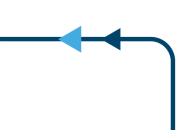*Best of breed is now OSS and as a Service*
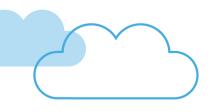
Less inherent lock-in

What kinds of lock-in are there?

Business lock-in

Hardest to escape...

Legal lock-in

*e.g. compliance with laws that exclude
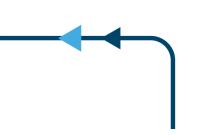alternatives based on jurisdiction or certification*

Financial lock-in

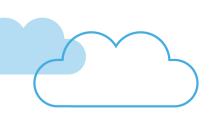*e.g. budget spent in advance on long term
deal with a vendor*

Contractual lock-in

*e.g. partnership or investment deal with
one vendor prevents using alternatives*

Technology lock-in

Possible to escape given time and work...

Implementation

e.g. interface is the same but behavior is different
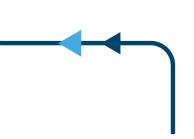
Proximity lock-in

*e.g. chatty clients don't work unless they
are co-located with their server*

Topology lock-in

e.g. quorum based availability (C, Riak) needs
three zones/datacenters per region*

Soft lock-in

Relatively easy to escape...

Interface lock-in

e.g. different APIs that get the same result, easy to hide behind an abstraction layer

Web service lock-in

Interface lock-in, but remote access unlocks ability to migrate applications

Query syntax lock-in

e.g. SQL variants for different databases

Data gravity lock-in

e.g. lots of data to move or duplicate

Cloud native microservices

Example for discussion

Q&A

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http://slideshare.com/adriancockcroft
http://github.com/adrianco/spigo
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