Distributed Ops for Distributed Apps

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Distribution of decision-making authority across a number of small highly-skilled teams directly involved in service development and delivery.
Why distribute decision-making?
Promises vs. obligations
Centralized
Autonomous
Brain vs. society
How to distribute ops?
Team size and skills
Consistency vs. availability
Standardize
What to standardize

- Copy of Item
- Item (2)
- Item copy (2)
What to standardize

• racking and provisioning servers
• configuration management
• package management
• secrets management
• monitoring
Communication
What about Docker?
Premature standardization is the root of all evil.
Automate
"... is the use of various control systems for operating equipment ... with minimal or reduced human intervention. Some processes have been completely automated."
Automation?
Augmentation (or Scripting)

A process of reducing human effort through integrating various tools, processes and tasks into a single process typically invoked with a single command.
Automation
A process of building autonomous systems - systems that do not require human intervention during normal operation.
Automation!
In Closing

1. There's no scaling without giving away control

2. There's no adapting to change without sharing information