High Performance Software Delivery & Operations
Nathen Harvey

Developer Advocate
@nathenharvey
(He/him)
Incentives aren't aligned

Developers
Agility

Operators
Stability
DevOps

A cultural and professional movement, focused on how we build and operate high velocity organizations, born from the experiences of its practitioners.

https://github.com/chef/devops-kungfu
Software Delivery Performance

- Delivery lead time
- Deployment frequency
- Time to restore service
- Change fail rate

2018 Accelerate: State of DevOps

Throughput

- Deployment frequency
- Lead Time for Changes

Stability

- Time to restore service
- Change fail rate
Comparing the elite group against the low performers, we find that elite performers have...

- **46 TIMES MORE** frequent code deployments
- **2,555 TIMES FASTER** lead time from commit to deploy
- **7 TIMES LOWER** change failure rate (changes are 1/7 as likely to fail)
- **2,604 TIMES FASTER** time to recover from incidents
Capabilities to drive improvement

• Continuous delivery
• Architecture
• Product and process
• Lean management and monitoring
• Cultural
Version Control
Code Review
Continuous Integration
Automated testing
Shift left on security
Implement Continuous Delivery
Measure Progress

- Delivery lead time
- Deployment frequency
- Time to restore service
- Change fail rate

2018 Accelerate: State of DevOps
Accelerate State of DevOps Report
Accelerate State of DevOps Report

Thank You
Image Credits

CC By 2.0

- https://www.flickr.com/photos/ian02054/14492902283
- https://www.flickr.com/photos/applesnpearsau/16898340552
- https://www.flickr.com/photos/peronimo/15694035526/
- https://www.flickr.com/photos/mikemacmarketing/42271822770
- https://www.flickr.com/photos/arg_flickr/11224094093/

Public Domain