The best time to start Continuous Delivery is Nov

Josh Reed – Release Engineering – Aiven



What is Continuous Delivery?

- Always stay release-ready
- Validate by releasing often
- Make the release process mundane
- Get quick feedback about changes to code
- Achieve quality at speed

Four Key Metrics

Lead Time



Deployment Frequency

Change Failure Rate



Recovery **Time**

Compare to Industry





See the State of DevOps Report from Google DORA

"But I don't need it!"

That's the perfect time to start!

One Exception



If you know you're going to be making software, you can benefit from continuous delivery

Early Adoption



Delivery vs Deployment

- SaaS bias in the literature
- Delivery can mean many things
- Applies to remotely installed software
- Can even apply to internal deliveries
- Don't forget about R&D!

Ship it

"But I already have a process!"

How's that working out for you?

Aspect of Software Delivery Performance*	Elite	High	Medium	Low
Deployment frequency For the primary application or service you work on, how often does your organization deploy code to production or release it to end users?	On-demand (multiple deploys per day)	Between once per day and once per week	Between once per week and once per month	Between once per month and once every six months
Lead time for changes For the primary application or service you work on, what is your lead time for changes (i.e., how long does it take to go from code committed to code successfully running in production)?	Less than one day	Between one day and one week	Between one week and one month	Between one month and six months
Time to restore service For the primary application or service you work on, how long does it generally take to restore service when a service incident or a defect that impacts users occurs (e.g., unplanned outage or service impairment)?	Less than one hour	Less than one day ^a	Less than one day ^a	Between one week and one month
Change failure rate For the primary application or service you work on, what percentage of changes to production or released to users result in degraded service (e.g., lead to service impairment or service outage) and subsequently require remediation (e.g., require a hotfix, rollback, fix forward, patch)?	0-15% ^{b,c}	0-15% ^{b,d}	0-15% ^{c,d}	46-60%

Source: https://cloud.google.com/blog/products/devops-sre/using-the-four-keys-to-measure-your-devops-performance

Quarterly Release



End of the Sprint



Process is King



YOLO into Prod



Measure I

"But change is hard!"

It's worth it.

Someone is Paying the Price

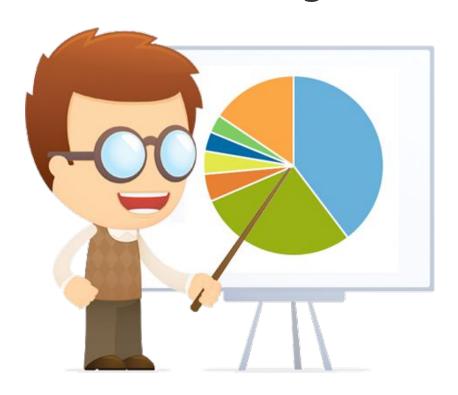
Product

Developers

Customers

Operations

Analyze and Iterate





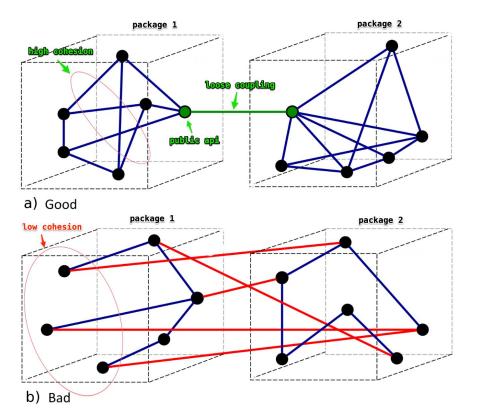
Technical Approaches

Automate

Decouple

Refactor

Architecture



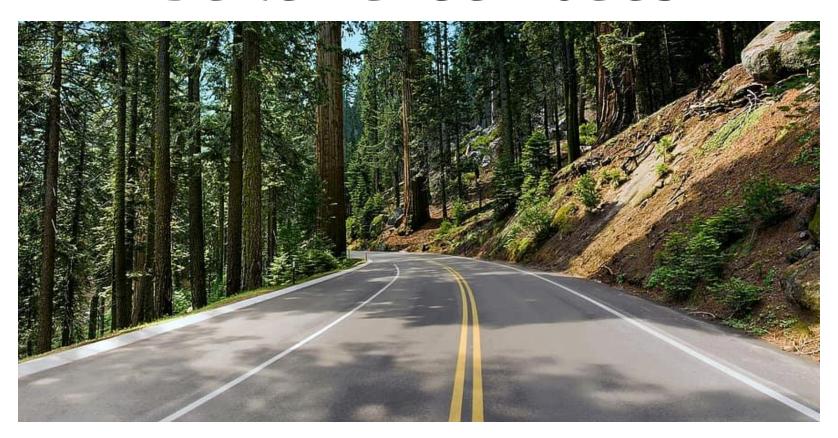
Tooling



Start at the edges



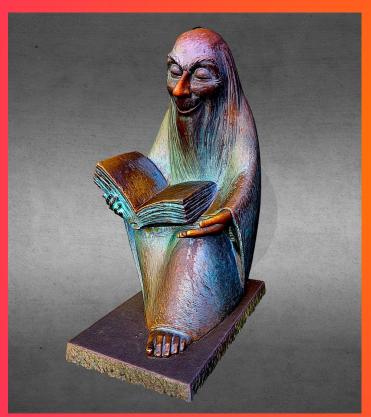
Build Paved Roads



Carrot and Stick

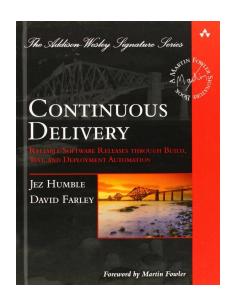


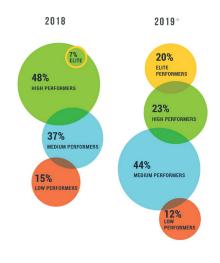
Dealing with People

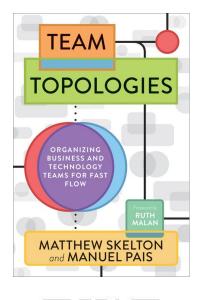




Resources













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