

Velocity

WEB OPERATIONS & PERFORMANCE

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Running Cross **Functional Service** Teams

Philip Reynolds Workday



- Got the internet bug at 14 ... discovered Linux
- Joined Workday in 2009
- Manage 2 teams in Workday



About me

Have worn many hats – mainly as a developer & sysadmin







I didn't invent this stuff – AmaGooBook

Shared learning

- Nothing revolutionary. Not going to change your world.

My team – they're awesome







Mix of developers & operations

"You build it, you run it" – Amazon

Reporting structure not that important. Team == "Scrum team"









Process

- Redundancy vs dependency
- Seek to minimize external dependencies
- Scale Organizational scalability. Easy model to replicate.









People

- Drive deeper understanding of the system grow true domain experts
- Autonomy of teams. Allow teams the freedom to make decisions.
- Cross training
- Team strength through unity
- Resourcing











Technical

- Architecture Move to Service Orientated architecture
- Promote certain systems to "first class" systems. Having service teams own things like monitoring.









How? (Ops team perspective)

- Hire a senior developer (... a good one!)
 - Lean on your colleagues for help in hiring one or look internally for candidates.
- Treat all code as code.
 - Python code
 - Application configuration that's code
 - Switch configuration that's code too!
- Build dev infrastructure (build & test infrastructure / tooling)







- Create a pipeline
- Rigorous code reviews
- Heavy focus on testing. Invest in your testing.

Continuous Integration – The Holy Grail







How? (Ops team perspective #3)

- Train the developer on supporting systems.
 - Litmus test: can they go on-call



Developers like building stuff. Make sure you recognise that.





- Hire a senior ops person
- Set expectations around code
 - Litmus test: can they triage and fix small bugs?
- Dopamine hit comes from fixing stuff



How? (Dev team perspective)





How? (Dev team perspective #2)

- Set clear responsibilities
 - Business hours triaging? Config mgmt? Monitoring?
- Operability is a functional requirement
- Everyone on-call







Hiring Culture extremely important – don't compromise

Soft skills / personality is more important for first CF hire

You almost certainly have colleagues who can help hire









Dynamic of team has changed. Develop a rhythm

- work. That's ok.
- Velocity increased go slower to get faster.
 - Defect rate should go down.
 - Less rework

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Learnings

You will spend more time talking about work instead of doing





Learnings #2

- Collective ownership of the domain is key. Collaboration should have increased (desk time goes up)
- Started using traditional scrum moved to Kanban.
 - Critical part for ops teams is limiting WIP and breaking down work
 - Critical part for dev teams is facilitating reactive work
- Ops people are often more optimistic in planning(!)







Developers are now second-line on call.

- Not everyone is ok with that. Be up-front through hiring process







Own your service. All of your service

Invest in quality

Team first







@philreynolds We're hiring - <u>www.workday.com/careers/</u>



