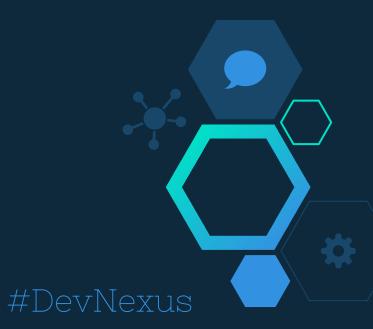


Research
into DevOps
bottlenecks



Who am I

Baruch Sadogursky Head of Developer Relations @jfrog @jbaruch





Also, jfrog.com/shownotes



Why "research"? We interview people

- ■VP R&D @ JFrog
- CTO @ Bugsee
- CTO @ Top Israeli Finance Firm
- VP Engineering at CA Technologies
- CTO @ ScentBird
- Architect, a top Fortune-Rated Privately-Held Tech Firm
- Applications Engineering Manager at Fortune 500 SW Company
- Architect, US Army (Contractor) @jbaruch http://jfrog.com/shownotes #DevNexus







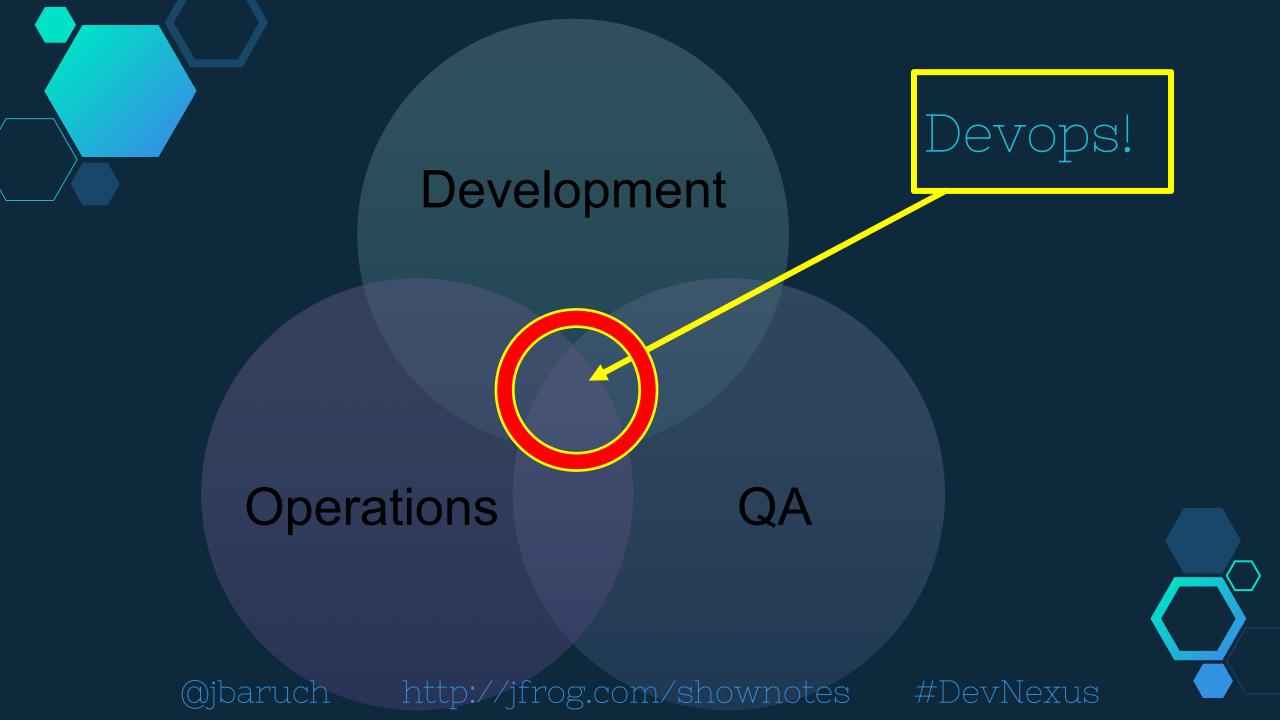
http://jfrog.com/shownotes



Operations

QA















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#DevNexus



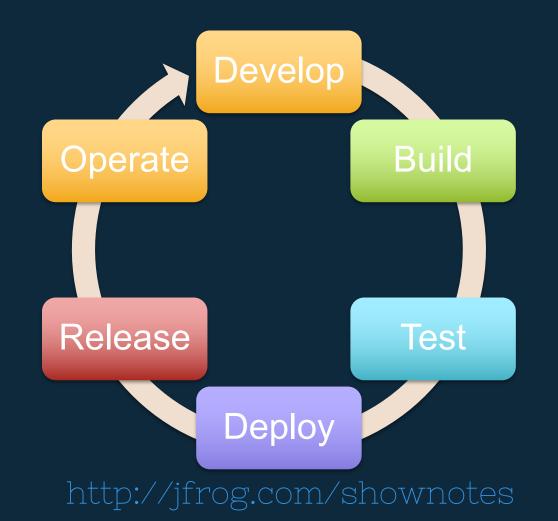
What bottlenecks?

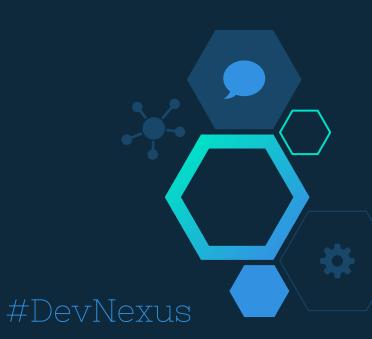






DevOps and Delivery



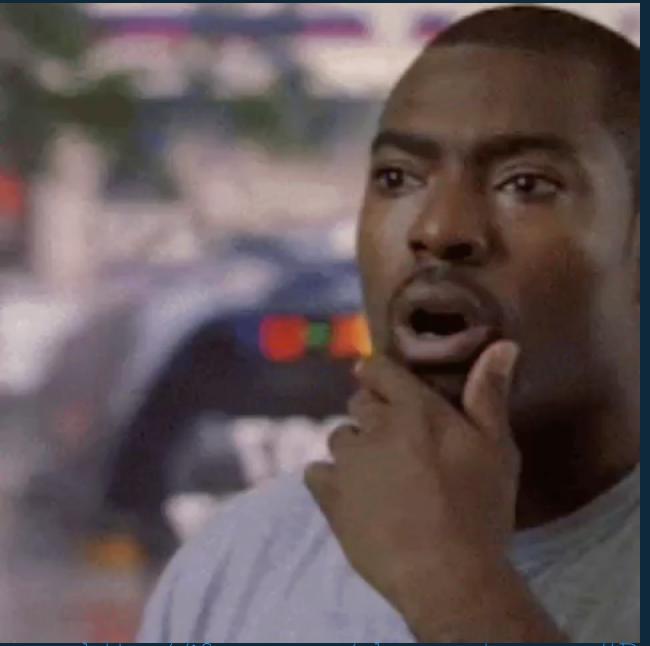




Release cycles









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Are they happy with it?



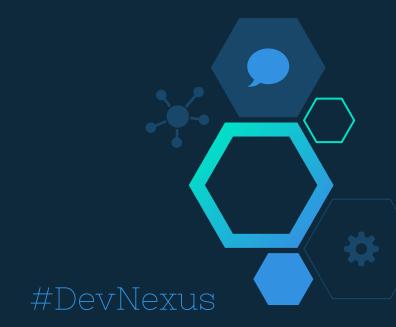


50% Satisfied

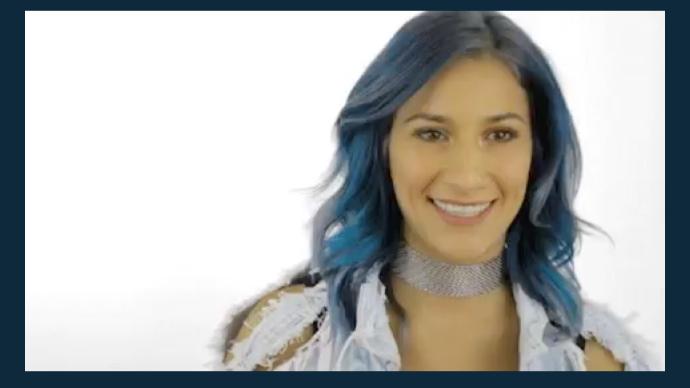
80% Satisfied

100% Satisfied

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How do you know it's good?



#DevNexus

@jbaruch



I don't measure it because I've had no complaints



When the bug queue is empty we are good



When I get fewer tickets on the process



Automation of every single piece



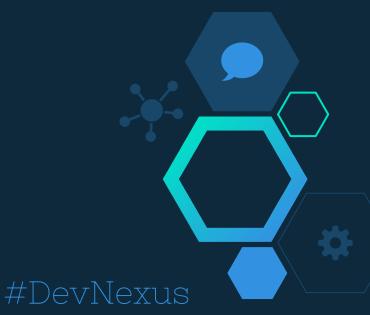
Other measures

- Version adoption
- Bug Burn-down diagram
- Productivity Gains "used to be 2 days, now its 2 minutes"
- Quality, No Regressions!
- MTTR
- Business metrics









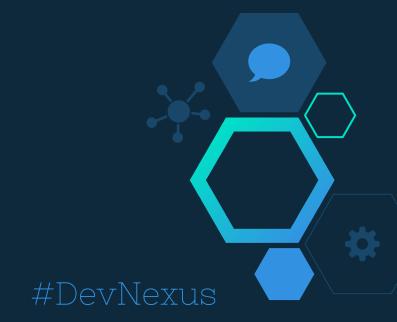






Why not to update





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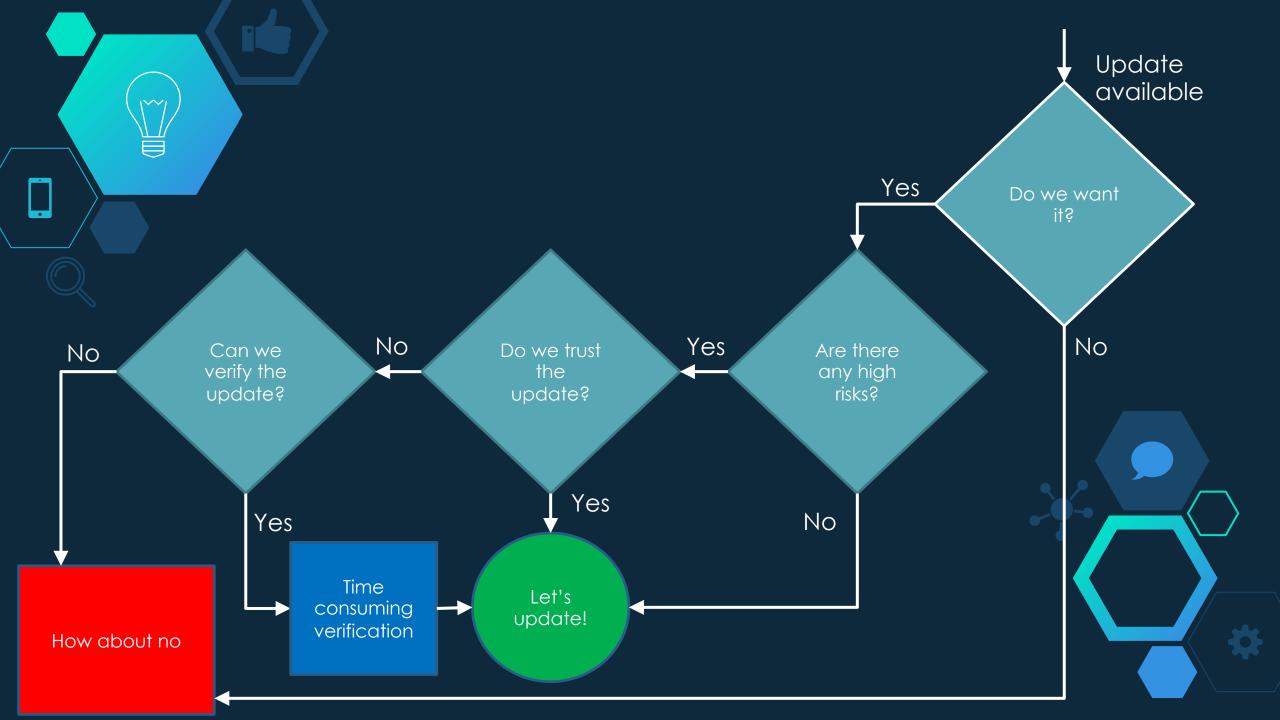
Acceptance tests



The dreadful updates



Impossible dilemma: we need the update, but it will break things



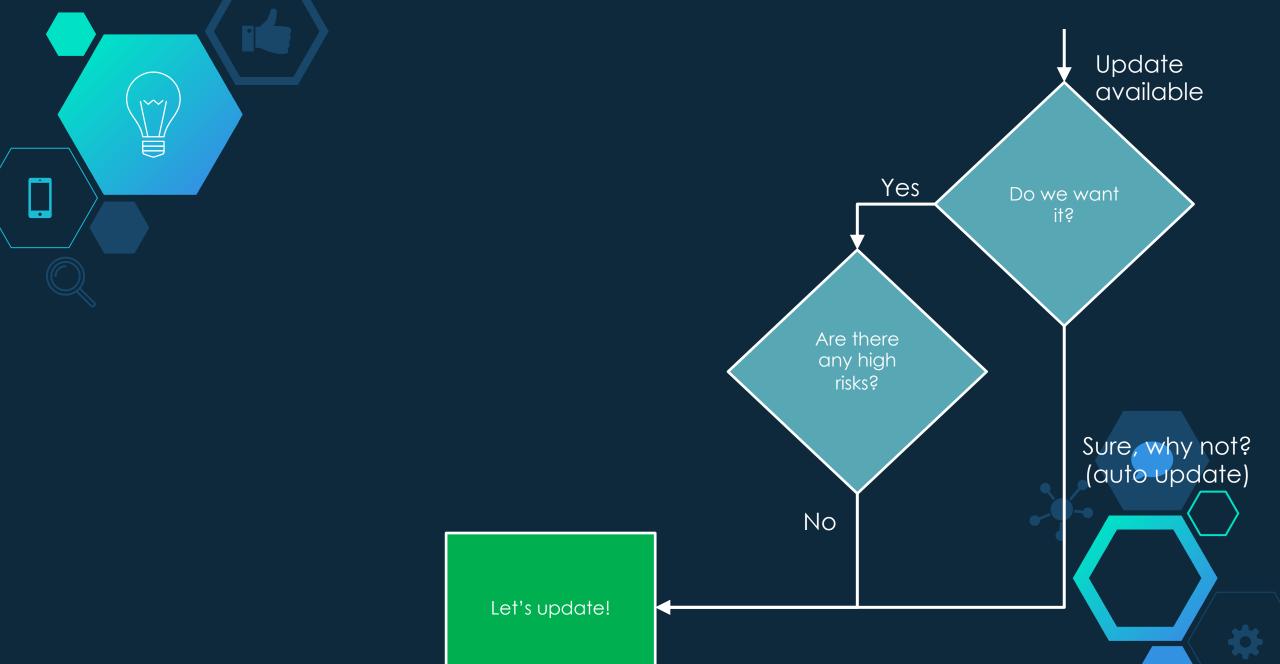


| On-demand (multiple deploys per day) |
|--|
| |

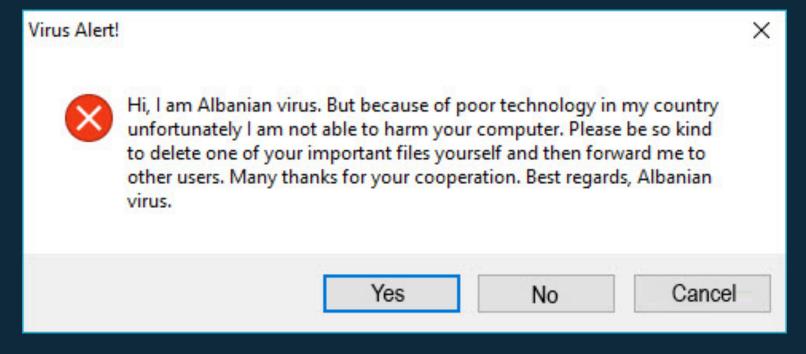
















Google Wifi

Sincerest Apologies for any Issues

Dear Google Wifi & OnHub customers,

Today we experienced an issue with our Google Accounts engine that may have affected your Google Wifi and OnHub devices. This caused some devices to automatically reset to the initial state you bought them in and they will unfortunately need to be set up again. This has not affected the software or performance of the device but it does need to be re-setup.

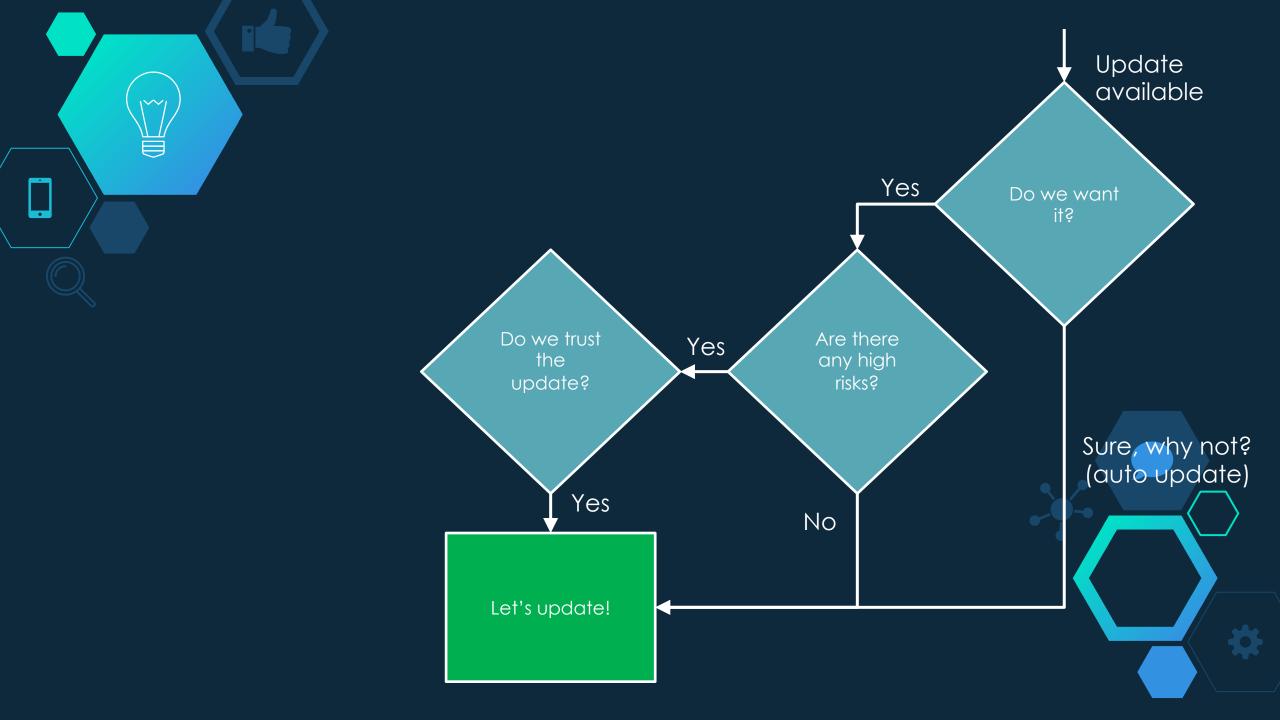
Visit this <u>dedicated support page</u> for more information and step-by-step instructions to get back online. If you set up your Wi-Fi with the same network name and password as before, your household connected devices should automatically reconnect.

If you do not want to set up the devices right now, you can always connect to the setup Wi-Fi network — the network name and password are printed on the base of your primary device (the one wired to the modem). This should get you connected to the internet immediately.

We know how important Wi-Fi is to you and share our sincerest apologies for the inconvenience this has caused.

Ben Brown On behalf of the Google Wifi and OnHub team











How to Achieve Trusted Continuous Updates in the DevOps World

Fred Simon, Yoav Landman, Baruch Sadogursky





The customers are always ready to update

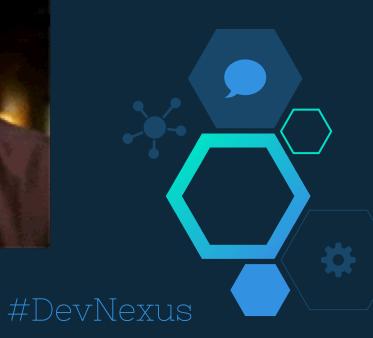
You just lost the last excuse for not releasing fast





But what about the quality?...







Accelerate: State of DevOps

Strategies for a New Economy



Presented by

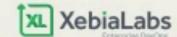


Diamond Sponsor

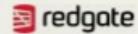


Gold Sponsors



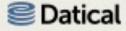


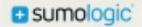
















No, not really.

| 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? | On-demand (multiple deploys per day) | Between once per hour and once per day | Between once per week and once per month | Between once per week and once per month |
| 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 commit to code successfully running in production)? | Less than one hour | Between one day and one week | Between one week and one month ^b | Between one month and six months ^b |
| 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 occurs (e.g., unplanned outage, service impairment)? | Less than one hour | Less than one day | Less than one day | Between one week and one month |
| Change failure rate For the primary application or service you work on, what percentage of changes results either in degraded service or subsequently requires remediation (e.g., leads to service impairment, service outage, requires a hotfix, rollback, fix forward, patch)? | 0-15% | 0-15% | 0-15% | 46-60% |

No, not really.

| 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? | On-demand (multiple deploys per day) | Between once per hour and once per day | Between once per week and once per month | Between once per week and once per month |
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| 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 occurs (e.g., unplanned outage, service impairment)? | Less than one hour | Less than one day | Less than one day | Between one week and one month |
| Change failure rate For the primary application or service you work on, what percentage of changes results either in degraded service or subsequently requires remediation (e.g., leads to service impairment, service outage, requires a hotfix, rollback, fix forward, patch)? | 0-15% | 0-15% | 0-15% | 46-60% |

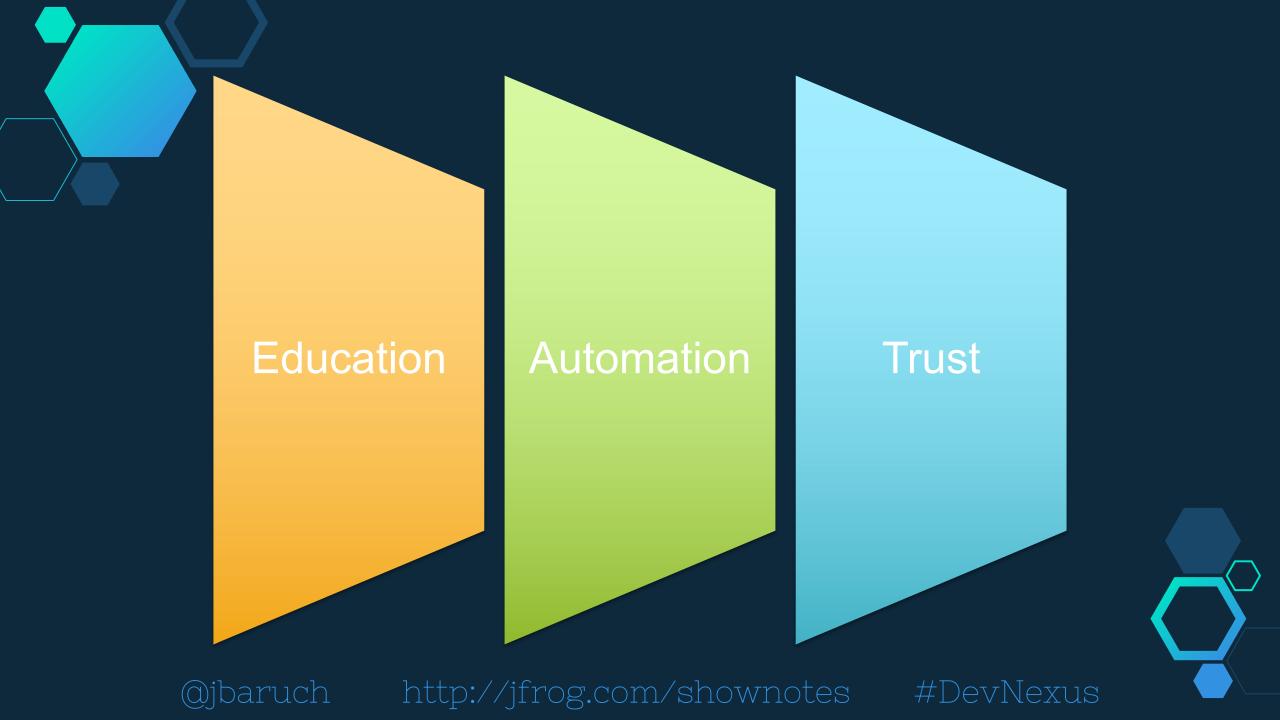


| Aspect of Software Delivery Performance | Elite | High | Medium | Low |
|--|--|--|---|---|
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Pain is instructional



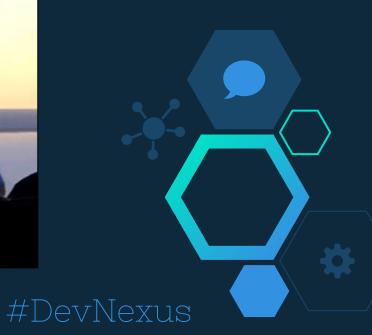
You need to know, You need to believe, You need to give a sh*t





"Activation Energy"



















First push is hard

Keep your eye on the prize

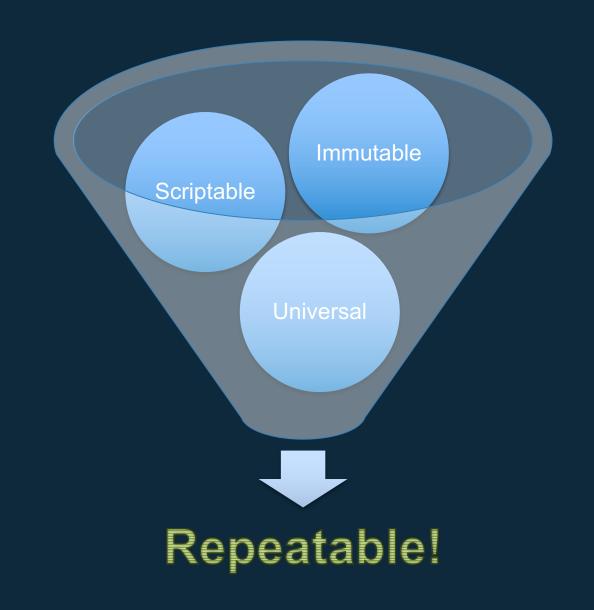
For an older code base this could take more than a year to achieve, but its still worth it

Tools











Guide, don't dictate Aim for the 80%

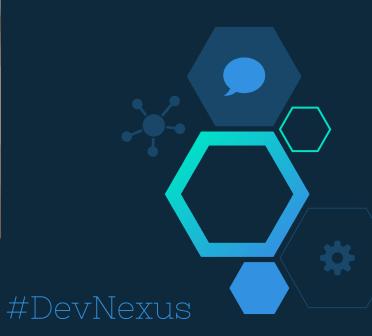
| Tool | Rating |
|-------------------|----------|
| Java | Invest |
| JFrog Artifactory | Invest |
| JFrog Xray | Research |
| Gradle | Invest |
| Maven | Maintain |
| Ant | Divest |





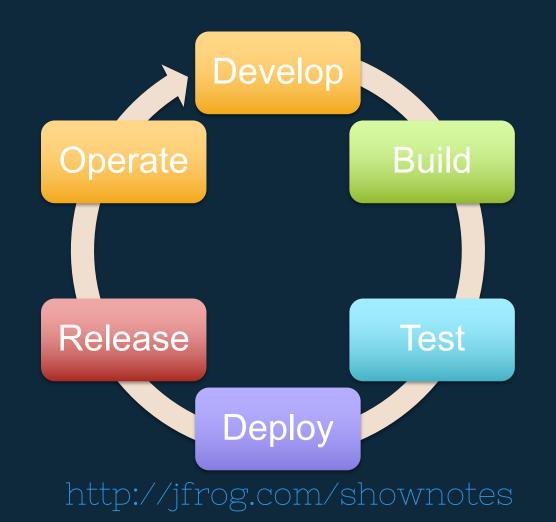
Let's talk about trust

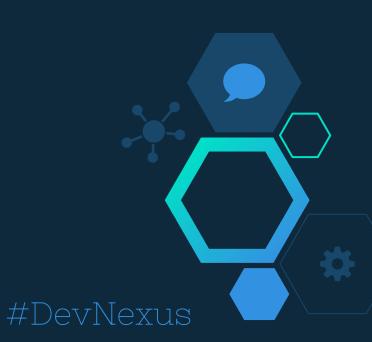






Remember this?









INATTENTION TO RESULTS

AVOIDANCE OF ACCOUNTABILITY

LACK OF COMMITMENT

FEAR OF CONFLICT

ABSENCE OF TRUST





Quality is the bottleneck

Automatic testing is not enough

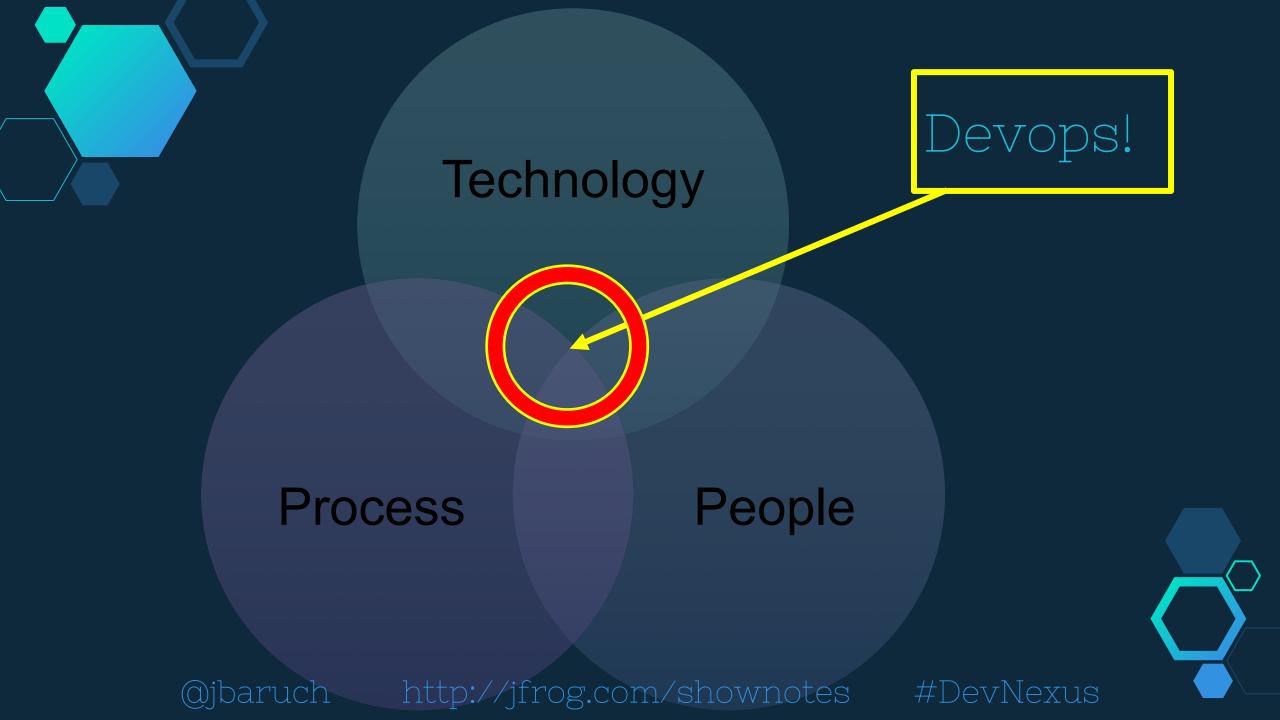
The "big green button" concept is lack of trust in quality

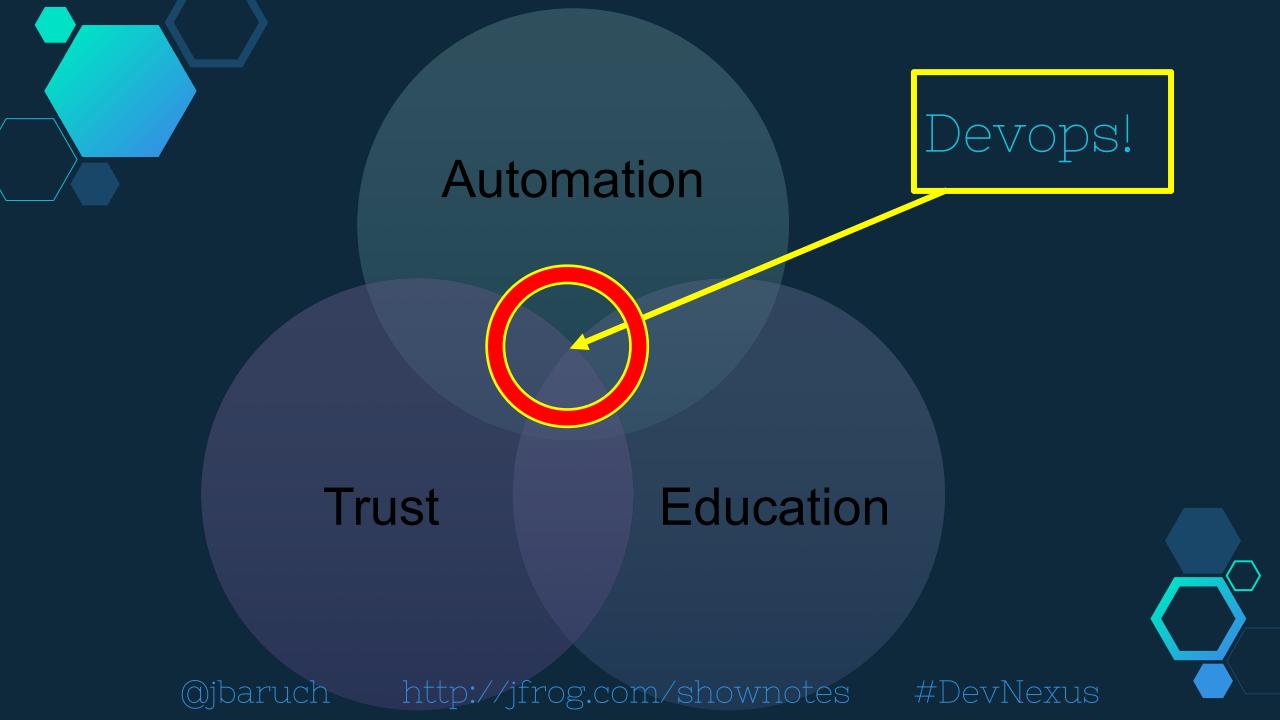


Quality is the bottleneck

Automatic testing is not enough, but we can use our customers as testers

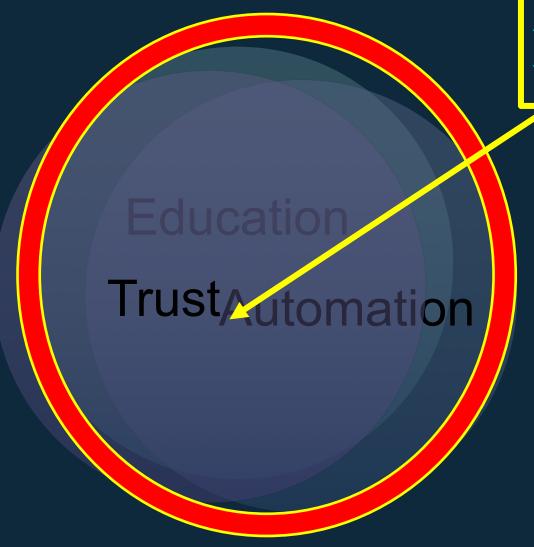
Canary releases











Devops!



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QA & Show notes

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- ♦ http://jfrog.com/shownotes
 - Video
 - Slides
 - Links
 - Feedback
 - Raffle! (come early)

