



DevOps for Everyone

Bringing DevOps Success to Every App, Every Tool,
and Every Role in Your Organization

Kurt Straube, Systems Director and DevOps Tools Pipeline Lead
John Hancock Financial Services

Rob Stroud, CPO, XebiaLabs

Xlr	AWS	Az	Gc	Op
XebiaLabs XL Release	AWS	Azure	Google Cloud	OpenShift
Dk	Ur	En	Pr	Ld
Docker	UrbanCode Release	Azure Functions	Plutora Release	Lambda
Cc	Ur	En	Pr	Al
CACD Director	UrbanCode Deploy	Azure Functions	Plutora Release	Alibaba
Oc	Go	Ms	Gke	Om
Octopus Deploy	GoCD	Mesos	GKE	OpenMake
Ud	Ku	Os	Pd	C
UrbanCode Deploy	Kubernetes	32	51	Cloud
Tf	En	31	Pr	AI
Terraform	En	30	Plutora Release	Alibaba
XLd	En	31	Pr	AI
XebiaLabs XL Deploy	En	30	Plutora Release	Alibaba
Ja	Os	49	Pd	C
Jasmine	44	50	51	Cloud
Fn	Fr	48	51	AI
FitNesse	41	49	51	Alibaba
Cs	Fm	48	51	C
Codeship	40	49	51	Cloud
Jn	Os	41	51	AKS
Jenkins	21	41	51	Rkt
Dp	En	41	51	RK
Delphix	20	41	51	Cloud
Db	Os	41	51	AKS
DBMaestro	12	41	51	Rkt
Dt	Fm	41	51	Cloud
Datical	4	41	51	AKS
Os	Os	41	51	Rkt
W	W	41	51	Cloud
Pd	Pd	41	51	AKS
Rs	Pd	41	51	Rkt
Vs	Fm	41	51	Cloud
Se	Fr	41	51	AKS
Selenium	39	41	51	Rkt
Jm	Fm	41	51	Cloud
JMeter	40	41	51	AKS
Ja	Fr	41	51	Rkt
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XLd	En	30	51	Rkt
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Oc	En	48	51	AKS
Octopus Deploy	46	48	51	Rkt
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SPEED

20
140
160
180



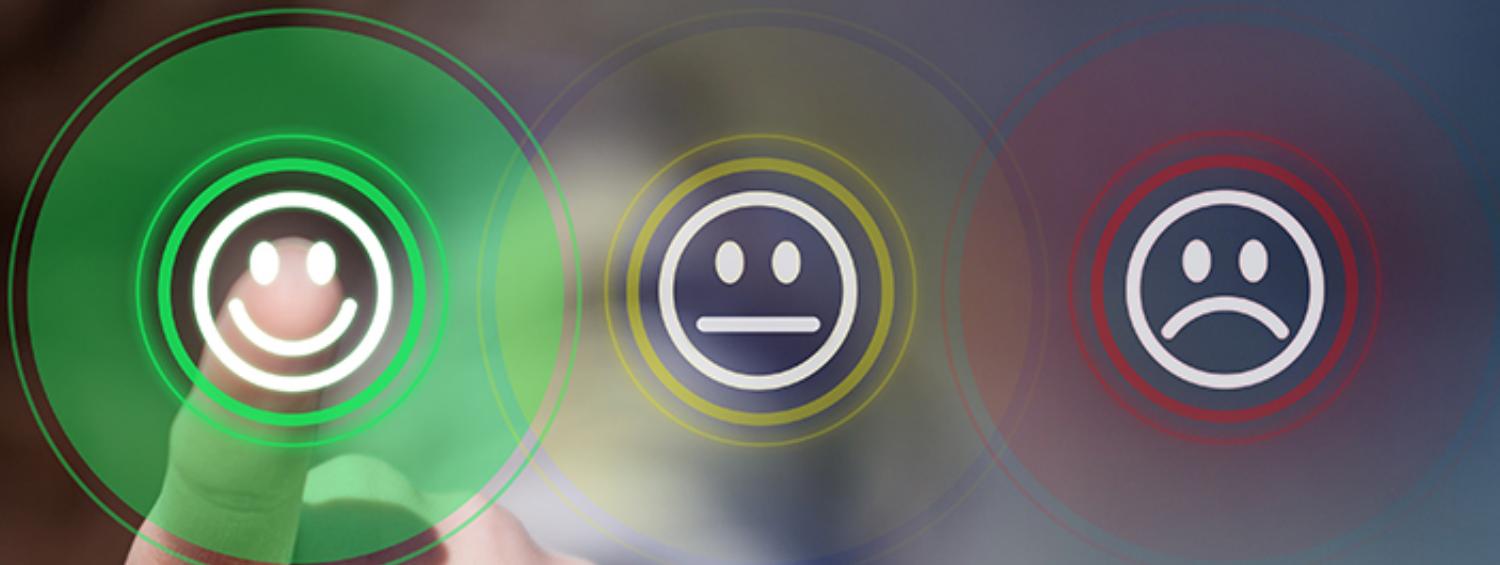
DevOps Adoption Wave



A Leap of Faith

Hitting the Scalability Wall

DevOps at Enterprise Scale



**“we have to implement DevOps
as it’s the only way to deliver
the speed, security, velocity
and quality our customers
demand”**

Fortune 500 CEO

Dear Auditor,



a love letter to auditors from devops,
where we promise to make life better

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GitHub](#)

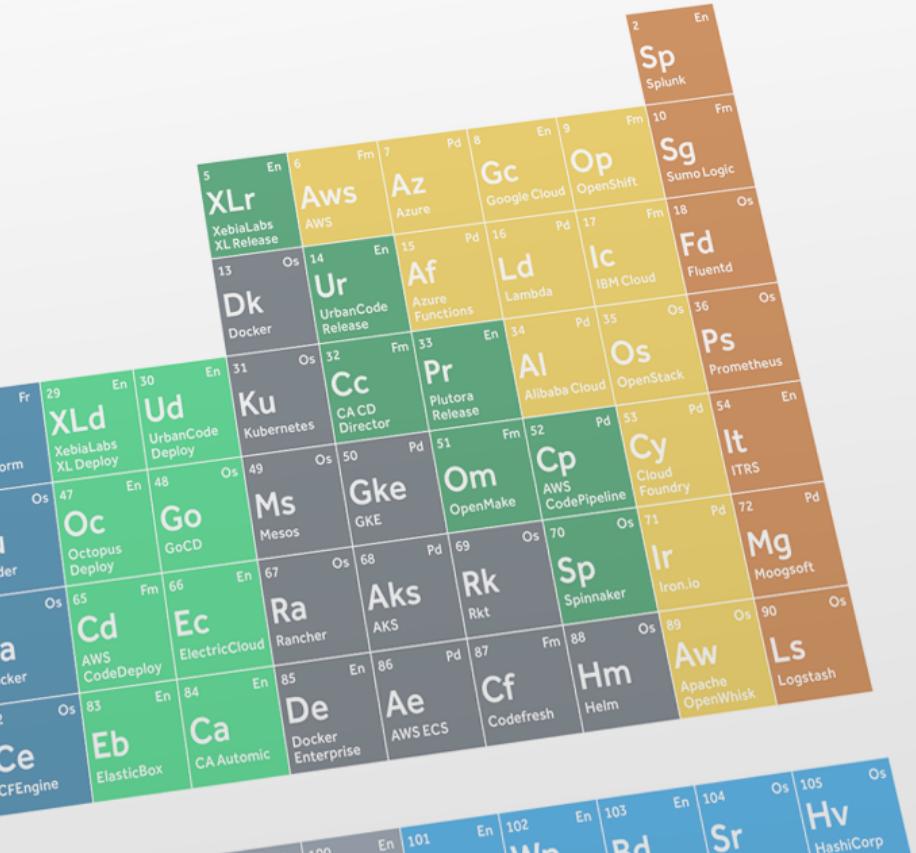
Dear Auditor,

We realize that we have been changing things in a rapid fashion from Agile and DevOps to Cloud and Containers. Yes, we have been busy, and are having great success delivering faster than ever, with better quality and supporting the business response to competitive pressures. This isn't just icing on the cake, the only sustainable advantage in our industries is the ability to meet customer demands faster, more reliably than our competitors.

With all this growth, we made a mistake, we forgot to bring you along for the ride. That is totally our bad, but we want to make it right. We want to make some new commitments.

- We will bring you along
- We will be fully transparent about our development process
- We do realize that we own the risks
- We will maintain an open channel of discussion to demonstrate to you how we manage risks with our modern development practices

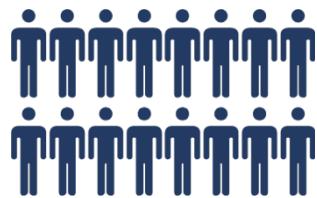
For example, you have told us that you are concerned about "Separation of Duties" in agile and DevOps practices, and we heard you! We think we have a better way to manage this and risks now. Having everything in version control, enforcing peer review for every change, releasing via a secure pipeline, restricting production access, and monitoring unauthorized changes in production systems should address your concern.



DevOps for Everyone



20+M
customers



34,000
employees

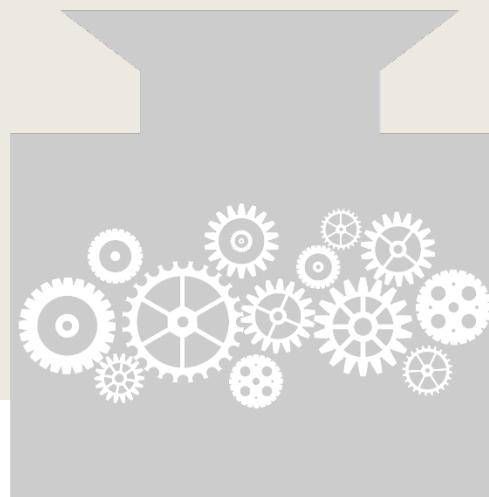
Manulife/John Hancock offers a variety of financial services: Insurance, Mutual Funds, Asset and Wealth management, Private and Commercial Banking, Commercial Mortgages, Real Estate

- Founded in 1862 as John Hancock Mutual Life Insurance company in Boston, Massachusetts, USA
- Acquired by Manulife Financial (Toronto, Canada, founded 1887) in 2004
- Named after a famous US Founding Father and signer of the Declaration of Independence
- Acknowledged as a one of the best known American and Canadian brands

DevOps Pipeline

OUR JOURNEY AND MISSION

Establish an environment where building, testing and releasing software can be done rapidly, frequently and reliably while maximizing predictability, efficiency, security and maintainability of **all of the applications in the Enterprise Portfolio**



Enable true transformation to modern software development practices across a varied portfolio

Increasing & improving cadence of delivery and productivity across the various construction and hosting technologies in the portfolio

Leveraging existing and new automation from build, test, deploy to more visible and accountable operations

Integrated security and code quality scanning for all technologies

Standardized management of regions & provisioning with test data & self-service infrastructure management

Efficiency with Scale - utilizing common pipeline tech stack solutions in partnership with other Manulife divisions

Insights, measurements & visibility on activities for continuous improvement

DevOps Pipeline Team

By providing DevOps Technical Leadership across the US Division and some Global areas, our IT Ops/Accelerated Delivery Pipeline Team contributes to our BU IS Partners' ability to deliver & implement high-quality products through multiple DevOps centric Capabilities, DevOps & Accelerated Delivery Techniques.



Emerging Capabilities



Our Mission

SCOPE

Capabilities to deliver any new tool, or support any existing tool in the Accelerated Delivery pipeline.

APPROACH

Deliver to the 5-year roadmap with constant evaluation for required changes. Address change in an Agile manner

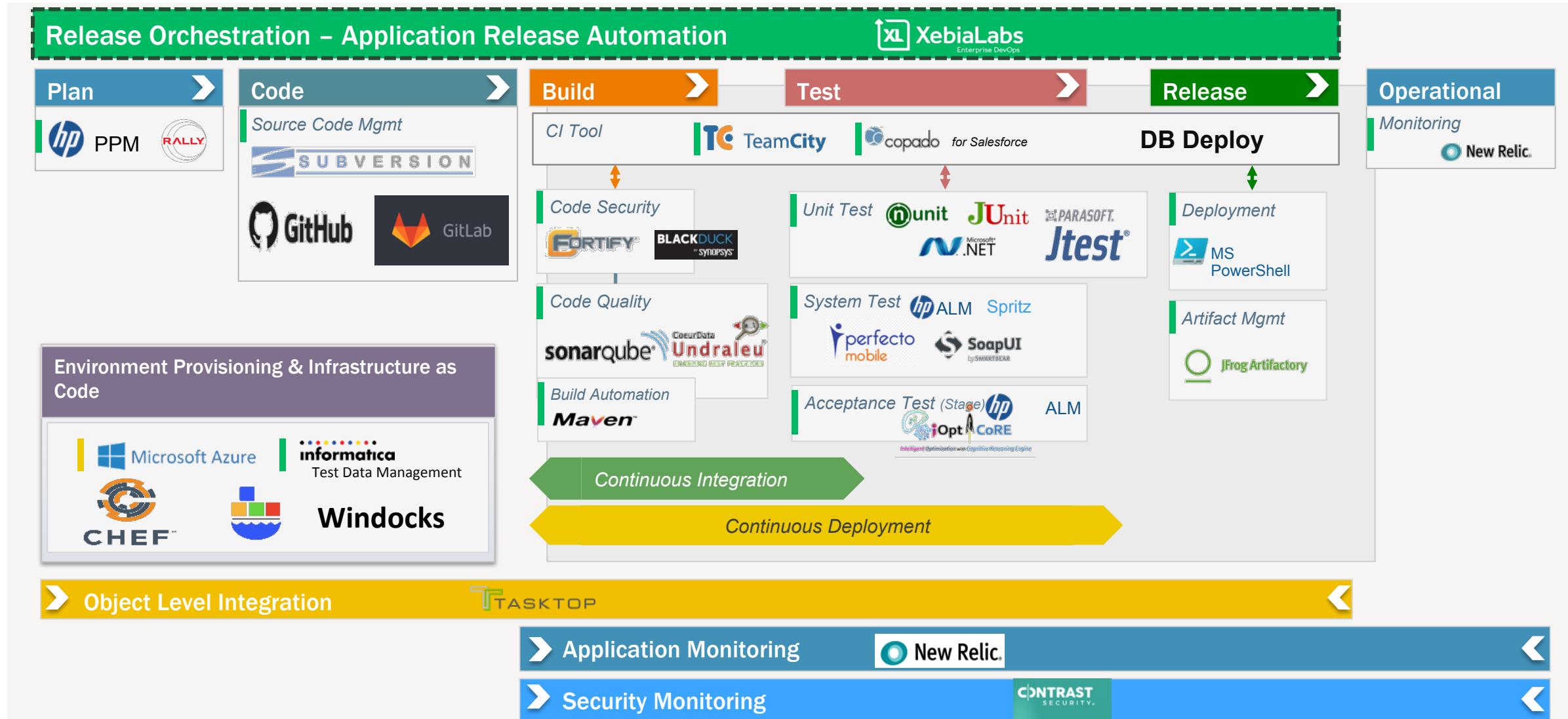
ALIGNMENT

Resources will be engaged & dedicated to the Pipeline team, ready to assist wherever needed to aid Accelerated Delivery

Accelerated Delivery Resource Locations



John Hancock DevOps Pipeline Stack





DevOps for all Apps

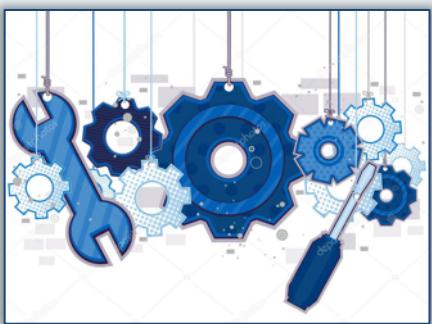
*"Bring me a
based lego
them in sh*

*orted, third party
will modernize
rt money"*

BYOBD

“Bring Your Own
Build/Deploy”

“Stop Valueless Tool Fights”



Product Delivery
Value Stream



John Hancock



“Successful product delivery with DevOps has many different engaged stakeholders – from highly technical to business oriented”

Example: XebiaLabs Implementation for DR Test

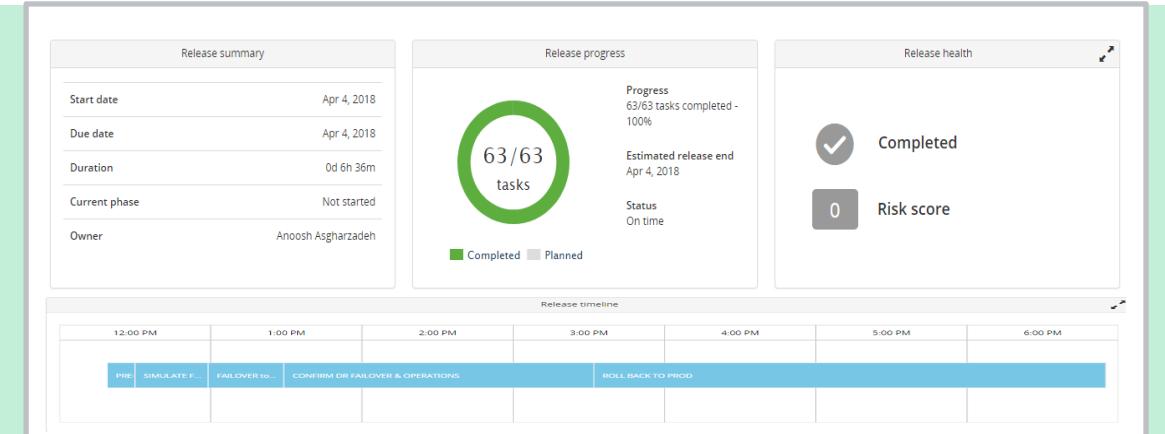


Before: XebiaLabs Implementation

Time	Recovery and Validation tasks	Responsible person/team	Planned start time	Actual Start Time	Actual End time
Pre-Test activities					
	Open firewall between TeamCity Prod and XLR Release DR server	Pipeline team	yellow		
	Verify XL Release version on Prod & DR servers are the same	Pipeline team	yellow		
	Confirm R01 DB Connection String is correct and points to same as P01	DBA Team/Pipeline	yellow		
? On 4/4	Load balancer configured and in dns	Pipeline team	yellow		
? On 4/4	Confirm xirelease-dr.jhancock.com is down prior to start of DR	Pipeline team	yellow		
:15	Prepare Logins and Security Scripts	DBA Team	yellow		
.20 ? On ?	Validate Logins and Securities on DR PaaS instance - jhithsqdrprod01.database.windows.net	DBA Team	yellow		
			Wed, Apr 4th		
Start test: i.e. simulate failure event					
5	Notify all that test is starting	DR Team	yellow	Noon	
10	Run Demo up to end of DEV state	Pipeline team	yellow		
10	Put AZURE servers in maintenance mode	Cloud Team	yellow	12:15 PM	
5	Shutdown P01 (@ end of DEV State within 1-2 minutes of demo run)	Cloud Team	yellow		
5	Confirm xirelease-dr.jhancock.com is still up (load balancer should keep the traffic going)	Pipeline team	yellow		
15	Execute demo app up to end of STEST	Pipeline team	yellow		
5	Shutdown P02	Cloud Team	yellow	12:50 PM	



After XebiaLabs Implementation



"The tool made capturing DR test information much easier and will be very helpful for future DR tests" – Business Continuity Team

- Notification to stakeholders on start/completion of tasks done over email and Skype.
- Manual tracking of tasks and statuses via IP grid spreadsheet.
- Screenshots of all artifacts and manual retention for Audit

- ✓ Reusable templates created to replace manual IP Grid
- ✓ Automated notification to stakeholders when a task is assigned and should be completed in the WorkFlow
- ✓ Real time dashboard and statuses to raise awareness of bottlenecks or issues
- ✓ Simplified collection of artifacts and information retention for Audit





Questions?

DevOps for Everyone

Bringing DevOps Success to Every App,
Every Tool, and Every Role in Your Organization

Sr	Sp	Fm	Pd	En	S	Gc	Op	Sp	Fm	Op	OpenShift
Az	Azure	Pd	16	Pd	17	Ld	Ia	Pd	18	En	S
Gc	Google Cloud	En	15	Af	Azure Functions	Ld	Lambda	En	34	Pd	19
Op	OpenShift	Pd	16	Ur	UrbanCode Release	Pr	Plutora Release	Al	Alibaba	Fm	52
OpenShift	OpenShift	En	15	Dk	Docker	Cc	CACD Director	Om	OpenMake	Os	50
Google Cloud	Google Cloud	Pd	17	Aws	AWS	Ku	Kubernetes	Gke	GKE	Fm	33
Azure	Azure	En	14	XLr	XebiaLabs XL Release	Os	32	Ms	Mesos	Pd	51
Azure Functions	Azure Functions	Pd	18	XLd	XebiaLabs XL Deploy	En	31	Go	GoCD	En	68
Lambda	Lambda	En	34	Tf	Terraform	Os	47	Oc	Octopus Deploy	Pd	69
Ia	Ia	Pd	19	Ch	Chef	En	46	Ru	Rudder	En	67
Plutora Release	Plutora Release	Alibaba	Alibaba	Fr	28	En	45	An	Ansible	Os	68
Alibaba	Alibaba	Fm	33	Fr	29	Fr	27	Sl	Sauce Labs	Fm	66
OpenMake	OpenMake	Pd	51	Jn	JUnit	Os	44	Jm	JMeter	En	64
OpenShift	OpenShift	En	20	Cs	Codeship	Fr	42	Ja	Jasmine	Os	65
OpenShift	OpenShift	Os	12	Fn	FitNesse	Fr	41	Se	Selenium	Pd	63
OpenShift	OpenShift	En	En	Jn	Jenkins	Os	21	Vs	Visual Studio Test	En	62
OpenShift	OpenShift	Fm	Fm	Cs	Codeship	Fm	23	Fn	FitNesse	Os	61
OpenShift	OpenShift	Pd	Pd	Dp	Delphix	Pd	40	Se	Selenium	Fr	60
OpenShift	OpenShift	En	En	Dt	Datical	Fm	4	Vs	Visual Studio Test	Fr	59
OpenShift	OpenShift	Os	Os	Db	DBMaestro	Fm	12	Fn	FitNesse	Os	58
OpenShift	OpenShift	En	En	Db	DBMaestro	Fm	1	Jn	Jenkins	Os	57
OpenShift	OpenShift	Fm	Fm	Dt	Dtical	Fm	4	Cs	Codeship	Os	56
OpenShift	OpenShift	Pd	Pd	Db	DBMaestro	Fm	12	Fn	FitNesse	Os	55
OpenShift	OpenShift	En	En	Dt	Dtical	Fm	4	Jn	Jenkins	Os	54
OpenShift	OpenShift	Os	Os	Db	DBMaestro	Fm	12	Cs	Codeship	Os	53
OpenShift	OpenShift	En	En	Db	DBMaestro	Fm	1	Fn	FitNesse	Os	52
OpenShift	OpenShift	Fm	Fm	Dt	Dtical	Fm	4	Jn	Jenkins	Os	51
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OpenShift	OpenShift	Os	Os	Dt	Dtical	Fm	4	Jn	Jenkins	Os	48
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OpenShift	OpenShift	Fm	Fm	Dt	Dtical	Fm	4	Fn	FitNesse	Os	46
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OpenShift	OpenShift	Os	Os	Dt	Dtical	Fm	4	Fn	FitNesse	Os	43
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OpenShift	OpenShift	Fm	Fm	Dt	Dtical	Fm	4	Cs	Codeship	Os	41
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OpenShift	OpenShift	En	En	Db	DBMaestro	Fm	12	Fn	FitNesse	Os	37
OpenShift	OpenShift	Fm	Fm	Dt	Dtical	Fm	4	Jn	Jenkins	Os	36
OpenShift	OpenShift	Pd	Pd	Db	DBMaestro	Fm	12	Cs	Codeship	Os	35
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OpenShift	OpenShift	En	En	Db	DBMaestro	Fm	1	Cs	Codeship	Os	29
OpenShift	OpenShift	Os	Os	Dt	Dtical	Fm	4	Fn	FitNesse	Os	28
OpenShift	OpenShift	En	En	Db	DBMaestro	Fm	12	Jn	Jenkins	Os	27
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OpenShift	OpenShift	Fm	Fm	Dt	Dtical	Fm	4	Fn	FitNesse	Os	16
OpenShift	OpenShift	Pd	Pd	Db	DBMaestro	Fm	12	Jn	Jenkins	Os	15
OpenShift	OpenShift	En	En	Db	DBMaestro	Fm	1	Cs	Codeship	Os	14
OpenShift	OpenShift	Os	Os	Dt	Dtical	Fm	4	Fn	FitNesse	Os	13
OpenShift	OpenShift	En	En	Db	DBMaestro	Fm	12	Jn	Jenkins	Os	12
OpenShift	OpenShift	Fm	Fm	Dt	Dtical	Fm	4	Cs	Codeship	Os	11
OpenShift	OpenShift	Pd	Pd	Db	DBMaestro	Fm	12	Fn	FitNesse	Os	10
OpenShift	OpenShift	En	En	Db	DBMaestro	Fm	1	Jn	Jenkins	Os	9
OpenShift	OpenShift	Os	Os	Dt	Dtical	Fm	4	Cs	Codeship	Os	8
OpenShift	OpenShift	En	En	Db	DBMaestro	Fm	12	Fn	FitNesse	Os	7
OpenShift	OpenShift	Fm	Fm	Dt	Dtical	Fm	4	Jn	Jenkins	Os	6
OpenShift	OpenShift	Pd	Pd	Db	DBMaestro	Fm	12	Cs	Codeship	Os	5
OpenShift	OpenShift	En	En	Db	DBMaestro	Fm	1	Fn	FitNesse	Os	4
OpenShift	OpenShift	Os	Os	Dt	Dtical	Fm	4	Jn	Jenkins	Os	3
OpenShift	OpenShift	En	En	Db	DBMaestro	Fm	12	Cs	Codeship	Os	2
OpenShift	OpenShift	Fm	Fm	Dt	Dtical	Fm	4	Fn	FitNesse	Os	1