

DevOps World



Jenkins World

Build Continuous Improvement for Your CD Pipelines with Value Streams, DevOps Metrics, and CD Platform Insights

Measure DevOps Performance

CloudBees DevOptics is your DevOps radar. It allows organizations to measure, analyze and manage DevOps. CloudBees DevOptics provides a comprehensive view of the status of your CD platform and software value streams, correlated from data collected across software delivery pipelines. In this workshop you will learn: - How CD platform monitoring (Run Insights) capabilities allow you to track availability, usage and team engagement of your CD platforms to ensure they are optimally supporting your software delivery activities. - How to create value streams in CloudBees DevOptics and understand how built in value streams capabilities make it easy to map, then actively measure and manage your software delivery process and activities. - How industry standard DevOps metrics allow you to measure performance across teams to leverage best practices and enable continuous improvement.

Speakers



Cassiano Ziegler-Bein

Sr. Solutions Architect, CloudBees

Experienced technical sales engineer consultant. Proactive professional, result oriented, good communication skills, leadership, team-worker, seeks for challenges and constant professional improvement. Experience in leading software development teams and supporting sales team.



Anand Chauhan

Sr. Solutions Architect, CloudBees

My professional mission is simple: Customer success. Customer goals become my goals and I'm not satisfied with outcomes until customers' objectives have been met or exceeded—which they typically are. For more than 15

What we'll learn...

Overview:

- Why measure DevOps performance?
- Common barriers to measurement & how to overcome them?
- How to baseline, adapt & continuously improve?

The Workshop:

- Setup: Jenkins Team Master & Multibranch Pipelines
- Lab 1: Visibility & Measurement with DevOptics Value Streams
- Lab 2: Platform Monitoring with DevOptics Run Insights
- BONUS Lab: Setup DevOptics FREE with your own Jenkins Master(s)
 *Ask CloudBees team for FREE sign up for a Trial with full access

Why measure DevOps performance?

COMPARING THE ELITE
GROUP AGAINST THE LOW
PERFORMERS, WE FIND THAT
ELITE PERFORMERS HAVE...



*Source: 2018 State of DevOps Report

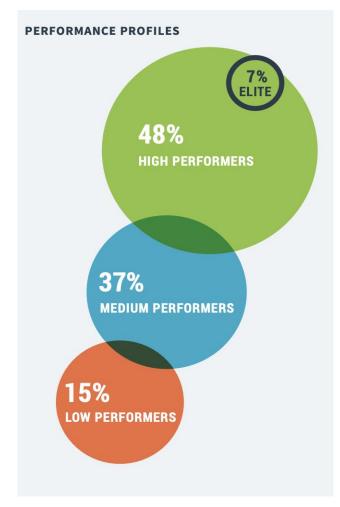








Why measure DevOps performance?



*Source: 2018 State of DevOps Report

Are we really delivering better software faster?

Where do we rank among peers & enterprise-class companies?

What do we measure? ...and how?

What do we need to improve?

Reality today: SDLC & Observability is (VERY) Complicated!









Increased complexity

Lack of visibility

Can't identify blockers

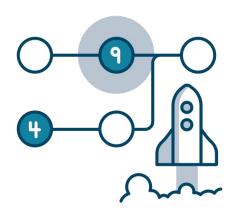
Measuring is difficult*

*"Just 21% of respondents feel they have a "very good" ability to understand how DevOps performance is impacting the business."

- IDG & CloudBees Marketpulse Survey, August 2018

The Recipe: 3 Dimensions of DevOps Measurement

CloudBees DevOptics provides **transparency** into the end-to-end software delivery process enabling organizations to eliminate automation constraints, remove blockages and bottlenecks, and improve DevOps performance



Real-Time Value Streams



Industry
Standard
DevOps Metrics

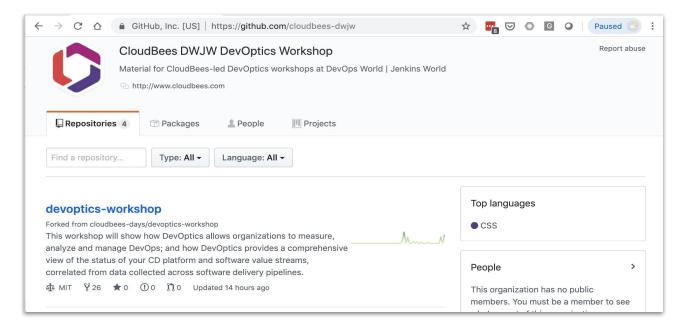


CD Platform Monitoring

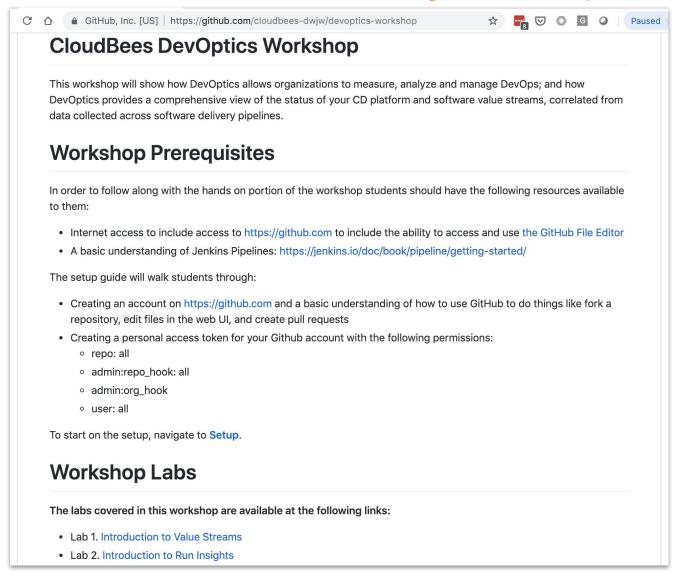
The Workshop...

https://github.com/cloudbees-dwjw

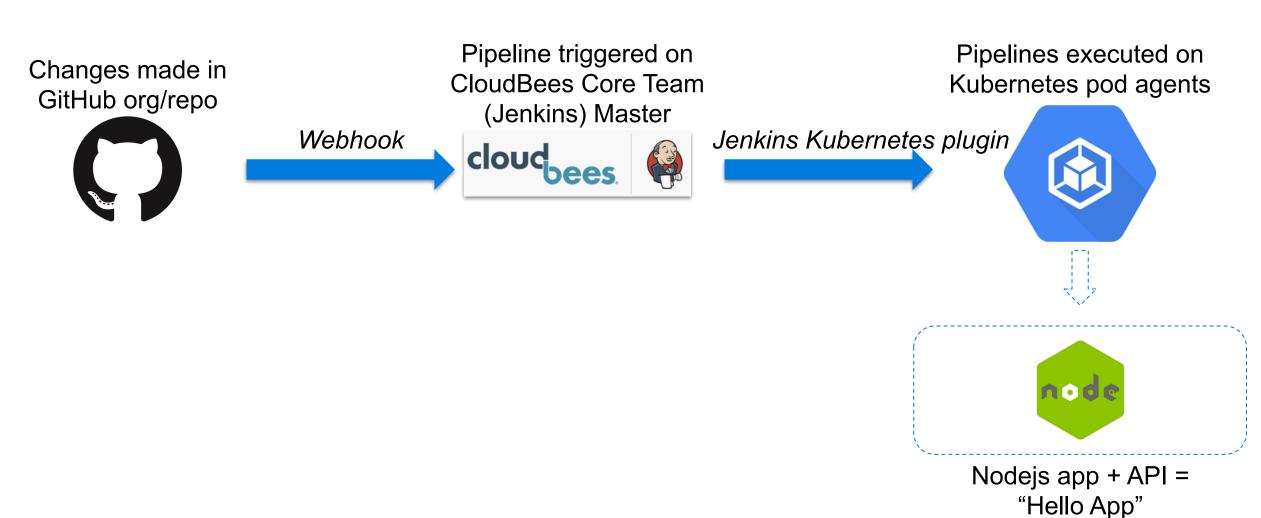
(Go here \, and click on repository for the workshop: devoptics-workshop)



https://github.com/cloudbees-dwjw/devoptics-workshop



Workshop: Setup Jenkins Master & Sample Pipelines

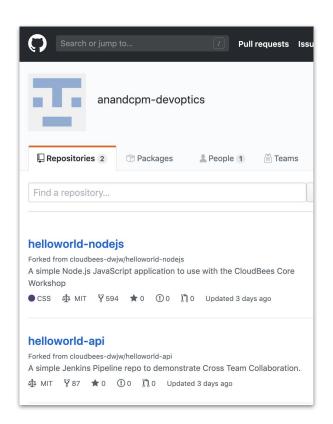


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Changes made in GitHub org/repo

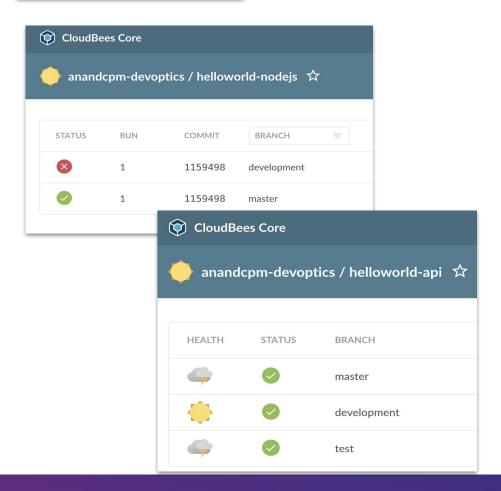


Webhook



Pipeline triggered on CloudBees Core Team (Jenkins) Master





Workshop: Value Streams & Run Insights

Changes made in GitHub org/repo

Pipeline triggered on CloudBees
Core / Jenkins Master

Value Stream(s) & Measurement

Webhook

CloudBees

DevOptics plugin

CloudBees

DevOptics

Changes made in GitHub org/repo

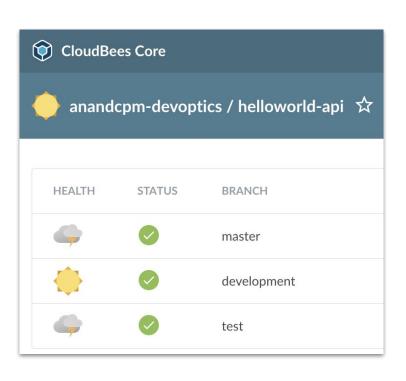
Pipeline triggered on CloudBees Core / Jenkins Master Value Stream(s) & Measurement

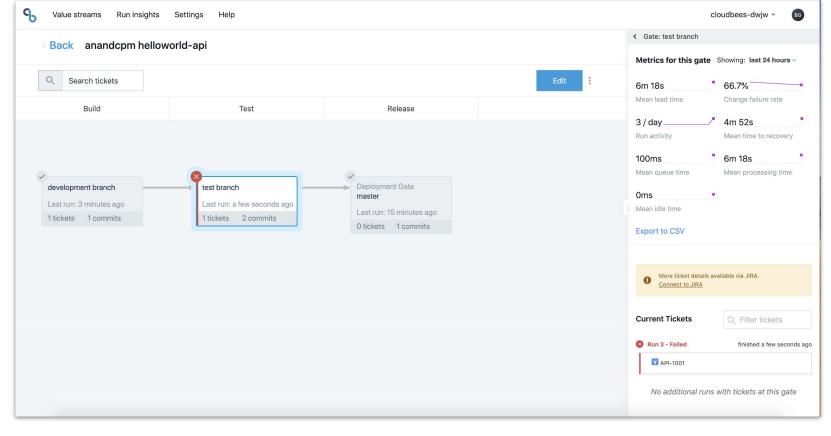




DevOptics plugin







Changes made in GitHub org/repo

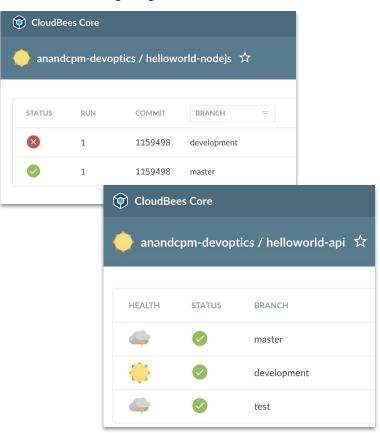
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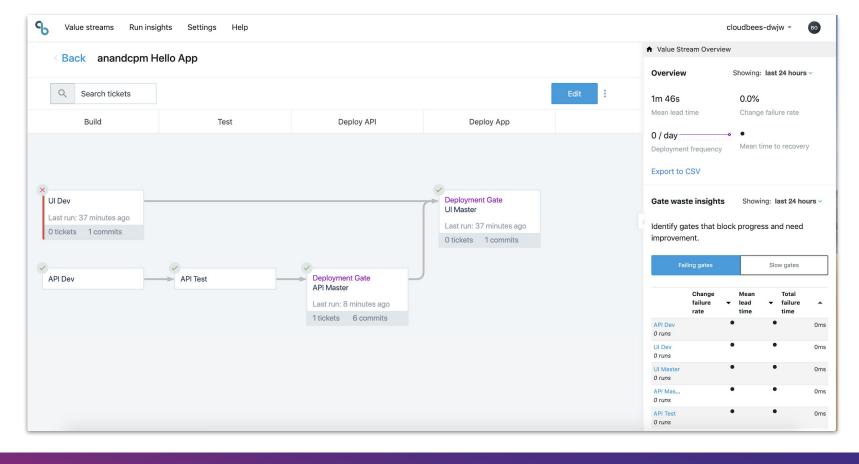




DevOptics plugin







Summary

Overview:

- Be a DevOps Superhero Elite Performers measure DevOps performance
- Utilize Value Streams & Proven, Metrics for Continuous Improvement
- Benchmark internally and externally with your industry peers

The Workshop:

- Lab 1: Visibility & Measurement with DevOptics Value Streams
- Lab 2: Platform Monitoring with DevOptics Run Insights
- BONUS Lab: Setup DevOptics FREE with your own Jenkins Master(s)
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Call to action: Be an Elite Performer! Benchmark Industry Standard Metrics

Aspect of Software Delivery Performance	Elite ^a	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%

*Source: 2018 State of DevOps Report

Build Your Own Value Streams - Signup today!

https://bit.ly/2MaYtb0

(Go here ^, and sign up for access to a DevOptics Trial version with full access)

Learn more about DevOptics at the event

- Sign up DevOptics Free to start modeling your software delivery process
- Visit us at the CloudBees DevOptics demo booth in the exhibit hall
- Scan the QR code sticker at the booth for information
- Recommended session on Wednesday, August 14 10:30am 11:15am
 - Value Stream Management: Using Proper Metrics to Understand if You're Delivering Better Software Faster (Room 2010)



Continuous Delivery Products and Services



Rollout

Feature Flag Management



Core

Unified Software Delivery & Governance



Flow

Adaptive Release Orchestration



CodeShip

CI/CD as a Service



DevOptics

Software Delivery Visibility & Insights

Jenkins



CloudBees Jenkins
Distribution



CloudBees Jenkins X Distribution

DevOps Excellence



Accelerator



Training



DevOps Consultants

Support



24x7 Technical Support



Assisted Updates



Customer Success Managers

