What is Your DevOps Team Actually Doing?

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Questions Worth Answering…

What is a DevOps Team Anyway?

Why Track What Your DevOps Teams Are Doing?

How Can You Monitor Your DevOps Teams?
What is a DevOps Team Anyway?
A culture, movement, or practice that emphasizes the collaboration and communication of both software developers and other IT professionals while automating the process of software delivery and infrastructure changes.

The iterative, incremental method of managing the design and build activities of engineering, IT and other business areas that aim to provide new product or service development in a highly flexible and interactive manner.
The Who
Thanks to Spotify!
Why Track What Your DevOps Teams Are Doing?
The Why

- Systems Thinking
- The Principles of Flow
  - Always Control Flow
  - Elevate Constraints
  - Promote Telemetry
  - Ship Working Units
- Improve Feedback
- The Principles of Feedback
  - Always Know Flow
  - Dream to Reality Traceability
  - Track Value to Customer
  - Shrink Units for Visibility
- Constant Experimentation
- The Principles of Continual Learning
  - Always Improve Flow
  - Constant Experimentation
  - Mindful Innovation
  - Mastery by Repetition
Teams That Practice Devops Are Overachieving!

22% less time on unplanned work.

5x lower change failure rate.

96x faster recoveries from failures.

430x shorter lead times.

46x more frequent deployments

The How

Continuous Integration (CI)

Continuous Deployment (CD)

Dynamic Cloud Infrastructure (IaaS)

Test Automation

DevSecOps

Monitoring
How Can You Monitor Your DevOps Teams?
Continuous Integration
Developer Commits Code to a DVCS

2017-09-25T21:31:01+00:00 | Code Committed
Continuous Integration
Developer Commits Code to a DVCS
Continuous Deployment
Automated Build Plans React to Changes in DVCS

2017-09-25T21:32:29+00:00 | Build Successful
Continuous Deployment
Automated Build Plans React to Changes in DVCS
Automated Testing

Testing may be Take Place Before, During, or After Deployment

CI  CD  Test  DevSecOps  IaaS

2017-09-25T21:33:34+00:00 | All Tests Passed
Automated Testing

Testing may take place before, during, or after deployment.
Security

Vulnerability detection is a crucial component of test automation
Security

Vulnerability detection is a crucial component of test automation.
Dynamic Cloud Infrastructure
Assets Spin Up / Assets Spin Down

CI  CD  Test  DevSecOps  IaaS

2017-09-25T21:35:06+00:00 | Microservice Deployed
Dynamic Cloud Infrastructure
Assets Spin Up / Assets Spin Down
So. Many. Applications.
Face it. You are not going to log into them for business intelligence monitoring? ........NO!
DevOps Activity != KPIs

However, metrics are important to monitor on your path to perfection

Monitoring! ...........Yes!

- 2017-09-25T21:31:01+00:00 | Code Committed
- 2017-09-25T21:32:29+00:00 | Build Successful
- 2017-09-25T21:33:34+00:00 | All Tests Passed
- 2017-09-25T21:34:15+00:00 | No Vulnerabilities
- 2017-09-25T21:35:06+00:00 | Microservice Deployed
Aggregate All The Things
If you want to make fabric, you’re going to need thread

- Speed to Delivery / % Delivery Success
- IaaS
- DevSecOps
- Automated Testing
- CI/CD
Diversity of Machine Data
Log files do not necessarily contain all important events

- RDBMS: Import DB Record Changes as Events with Splunk DB Connect
- REST API: Query API and Ingest Response as Events with REST API Modular Input

Log Files
Classic Machine Data

Splunkbase!
- Splunk App for AWS
- Splunk App for Jenkins
- ...

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Splunkbase

If it can integrate, there will be an app

Extend the Power of Splunk with Apps and Add-ons

Splunkbase has 1000+ apps and add-ons from Splunk, our partners and our community. Find an app or add-on for most any data source and user need.

Learn More  See All Apps
In One Place
Get a read on your operations quickly
In One Place
Get a read on your operations quickly
In One Place
Get a read on your operations quickly
In One Place

Get a read on your operations quickly
In One Place
Get a read on your operations quickly

Top Project A Developers
Top Authors Last 1 Days
James Brodsky
Nate Smalley
Donnick Eger

Development Test Suite Report
Application A Build Number Runs (Click for more Details)

Development Jenkins Build Status
Application A Tox Results For Test -11117 (High Volatility at Top)

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In One Place

Get a read on your operations quickly
Key Takeaways
Centralizing Your DevOps Activity

1. Many applications in the DevOps toolchain contain dashboards

2. Many applications are used in the DevOps toolchain

3. Whether investigating an anomaly or simply staying on top of the day-to-day, aggregating machine data in one application can be quite powerful
Thank You

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