

Splunk for DevOps? Absolutely!

Using Splunk across Docker, Bitbucket, Jenkins, Boomerang.js & Splunk-JS

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splunk

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Today's Agenda

- Introduction
- Buttercup-Go!
- Modern Application Architecture

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- DevOps Tooling & Monitoring
- Splunking the Modern App Dev Ecosystem

Technology Level Set

- Docker & docker-compose
- Buttercup-Go: a Node.js application
- Login: Auth0
- DevOps: CI/CD
 - Source Code Control: Git & Bitbucket
 - Build Automation: Jenkins
- Application Monitoring
 - Logging: Splunk JavaScript Logging + HTTP Event Collector (HEC) ... or Mint.js!
 - End User Monitoring: Boomerang.js + HEC

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• APM Tools: New Relic





Buttercup-Go

A quick introduction to our application



Buttercup Go!

Give it a try!

https://buttercup.rocks/

How did you do?





/:153] "GET /Category.screen?category_id=GIFTS&15E5510N1D=5D15LAFF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/category.screen?category_id=GIFTS&15E5510N1D=5D15LAFF10ADFF10 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D15LAFF10ADFF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D515LAFF10ADFF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D51F10ADFF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D515LFF10ADFF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D515LFF10ADFF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D51F10ADFF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D515LFF10ADFF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D515LF50DF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D515LF50DF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D515LF50DF10ADFF10 HTTP 1.1" 404 322 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D515LF50DF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D515LF50DF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/category_id=GIFTS&15E5510N1D=5D515LF50DF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-

Modern Architecture

The Technology behind the application



Buttercup Go Original Technology Layout



/buttercup

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"GET /oldlink?item id=EST-26&JSESSIONID=SD5SL9FF1ADFF3 HTTP 5.17



'Docker-ized' Environment



Mac OSX 10.11 or Higher CentOS 6x or 7x Ubuntu 14.04 or Higher

Screen?product id=FL-DSH-01&JSE

Reference Link: https://store.docker.com/editions/community/docker-ce-desktop-mac



...and Docker Swarm Configured

	docker-compose.yml ×
1	version: "3.1"
2	services:
3	* * * * * * * * * * * * * * * * * * * *
4	# BEFORE YOU BEGIN
5	# Please make sure you have run:
6	# docker swarm init
7	
8	# then you can execute this environment using:
9	# docker-compose up -d
10	* * * * * * * * * * * * * * * * * * * *
11	
12	
13	# Buttercup-Go is the Node.js application that we'll be using in the workshop
14	buttercup-go:
15	image tmartin14/buttercupgo
16	hostname: buttercup-go
17	ports:
18	- "3040:3040"
19	networks:
20	- appdev_workshop
21	
22	4 Ridburbet is used to see a super set
23	# Bitbucket is used to manage our source code
25	
25	image: tmartint4/01t0dcket_outtercupgo
20	nostralie: Ditucket
27	
28	- 799017990 12000 - 2000
29	- "/9991/999"
30	networks:
31	- appaev_workshop
32	
33	# looking is our outomation conver . When code is committed in BitBucket . Jonking will build f test it
24	· jenkins is our automation server. When code is committed in bitbucket, jenkins witt build & test it.
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30	hadge that they jenking but ter cupyo
30	volumes
30	- (var/run/docker.sock) (var/run/docker.sock
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What about Authentication?

Using Auth0 to track users and device information



How It Works From The User's Perspective



How Auth0 Really Works



What Can I See In Splunk?

User Behaviors

- Number of logins
- Authentications by source

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Oduct.screen?product_id=FL-DSH-01&JSESSIONID=SD5L7FF6ADFF9

SIONID=SD5SL9FF1ADFF3 HTTP

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- Errors for a given user
- Platforms
- Trends

Search Authentication Overa	all Stats Scoreboard Detail CaveN	Map Dashboards			Buttercup Games
Authentication Select a Time Range All time	✓ Hide Filters				Edit Export ~
Authentication Type	400 600 Linkedin User/PW	Total Authentications	17 ⁷ 431	Device Type Windows Android 6.0.1 Windows X11 IPad Windows Windows Macintosh Android	iPhone
Authentication Details			Auth Time A	Device A	Tatal Logica A
	Thomas.Ulrich		Linkedin	iPhone	2
JO	joseph.percival		Standard User/PW	Android	2
() ()	rorycasbon		Facebook	iPhone	1
JA	jason.baines		Standard User/PW	Android	1
	thomas.schmitz.hamburg		Google	iPhone	2
UV	uvirk		Standard User/PW	iPhone	3
ST	stefan.schoellermann		Standard User/PW	iPhone	2



Modern Applicaion Development Tools

What will we be using today?



Bitbucket (Source Code Management)

- Bitbucket (or GitHub) enables:
 - Simultaneous development for a single project
 - Different developers code different features
 - Tracking of Changes in Near-Realtime
 - Merge & Conflict Management
 - Issue Tracking and Jira Integrations
 - Automation with API's



Source Code Management (Bitbucket/GitHub)

- Devs work on 'Projects'
- Projects have 'repos'
- ▶ *'git clone'* your repo
- Source is now local

영 Bitbucket	Projects Rep	positories -			Se	earch for code or repositories.	
Projects	Create proie	tbucket	Projects	Repositories -			_
Project	*	Repo	sitories	3			
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Making Changes...There's a Process

Actions

- Create a new "branch"
- Switch context to your new branch
- Modify the code
- Verify the changes you made
- Add your changes to the be submitted
- Commit your changes
- Push your changes to Bit Bucket

Command Line

- git branch <branch name>
- git checkout <branch name>
- ▶ git status
- git add *
- git commit –m "your comments here"
- git push origin module1

		🗑 Bitbucket	Projects Repositories -		
	Bitbucket UI	Sour w	tbucket Projects Repositories -	Merge Pull Request	×
	Create Pull Request	> You	Splunk Ops workshop_updates -> master OPEN	Merge pull request #1 in AW/buttercup-go-master from workshop_updates to master	
	• Merge	<u>+</u>	Updates for AppDev Workshops	Add to the commit message	
	Morgo	1.00	Overview Diff Commits		
10		đ	Details	v workshop_updates	
20 107 160.82	(Jan 18:10:57	-4	Splunk Ops created a pull request 1 min ago	v master	
cup-sho purcha	<pre>(Jan :.153] "GET /category.screen?category_id=GIFTS&15 .NET CLR 1.18:10:57:123] "GET /product.screen?product_id=FITS&15 Ppinid=Rp.L1-0322)" 468 125 17 .000000000000000000000000000000000000</pre>	ESSIGNID=SD DSH-01&JSES SIGNID=SD55	Changed .conf Logo and link to 2017, updated version number ar switch and Easter Egg	Delete source branch after merging	Cancel

Automated Deployment - CI/CD Using Jenkins

- 1 Build Plan per Developer
- 1 Branch per Build Plan
- Jenkins will automatically build your project and deploy it when you merge your code

"GET /product.screen?category_id=GIFTS&iSESSIONID=SD1SL4FF10ADFF10 HTTP 1.1"] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=SD5SL7FF6ADFF20 HTTP 01 1318" "GET /oldisels HTTP 1.1" 2000 140=SU

1891 "GET

ils6] "/product.screen?product_id=FL-DSH-01&JSESSIONID=SDSSL7FF6ADFF9 MII 468 1000 / 0101 / 0101 / 0100 / 010

Build Plan

npm install npm install newrelic npm build

npm start



Collecting End User Data in Splunk

Splunking Application Data too!



Splunk HTTP Event Collector (HEC)

- A highly scalable endpoint to send data into Splunk over http(s)
- ▶ Settings \rightarrow Data Input \rightarrow HTTP Event Collector
- curl -k https://<host>:8088/services/collector \
 -H 'Authorization: Splunk <token>' \
 -d '{"sourcetype": "mysourcetype", "event":"Hello, World!"}'



Capture Business Metrics From The App Via HEC

- Create HEC Token
- Install Splunk Logging

npm install --save splunk-logging

luct.screen?product id=FL-DSH-01&JSESSIONID=5

- Add logging code
- Monitor your app

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					xt≻								
	splunk> Apps ~				4	Administrator 🗸 🛛 🔼 Mes	sages∨ Settings∨ Activ	ity∨ Help∨ Find					
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	4 Tokens App: All >												
		Last 7 days 🗸	Hide Filters										
	Name **												
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		Games Played		Total Users			Total Flaps						
var	config = {												
	token: "vour-	2 /	2/		52 162								
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	urr. necps./	-						•					
		Most Deaths	Best Avg Game	Top Score	Best	Avg Score	Longest Game	Most Flaps					
var	Logger = new :	i oohmitt	Time										
		I.SCHIMILL	thomas.nordmann	thomas.nordmann		omas.nordmann	thomas.nordman	n Karas	karasawa-ta				
var	payload = {	user.nickname 🗘	Total_Games 🗘	Avg_Duration ©	Max_Duration 0	Total_Flaps ≎	Highest_Score \$	Gates_Passed 0	Avg_Score 0				
1	message: {	1 thomas.nordmann	15	27.91 sec	45.47 sec	1430	46	414	27.6				
		2 christian.k186	11	20.81 sec	44.52 sec	796	45	222	20.2				
	temperatu.	3 karasawa-ta	116	19.45 sec	41.53 sec	7572	42	2160	18.8				
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	}	5 marcel.dutt	3	21.69 sec	40.76 sec	222	41	63	21.0				
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};		8 c.thal	115	12.33 sec	29.25 sec	4837	29	1296	11.3				
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подд		11 martin.gawantka	64	9.26 sec	26.54 sec	2049	26	515	8.0				
	// If success	12 i.schmitt	126	7.15 sec	25.35 sec	3011	25	731	5.8				
	console.log("	13 martin.mueller	32	6.17 sec	25.53 sec	687	25	152	4.8				
1.		14 facebook	65	8.38 sec	24.39 sec	1938	24	455	7.1				
});		ninon onmodi	2		-14 45 000	103	24	12	14.0				

End User Experience - Boomerang.js & HEC

- Create HEC Token
- Add JavaScript to your page
- Monitor Real Users

<!--

});

<!--



End User Experience - Mint.js

[/app/utils/splunkhttp.js]

- Add Mint.js to your app (mint.min.js)
- Initialize Mint.js & start sending data!

uct.screen?product_id=FL-DSH-01&JS

Monitor Real Users

```
// Adding Mint.js
const mint = require('assets/scripts/mint/mint.min.js');
// Initialize Mint.js
Mint.initAndStartSession({ apiKey: 'abcdefgh', collectLogs: true, collectNetworkCalls: false });
Mint.setPackageName('Buttercup-Go');
...
// Send data to Mint!
Mint.setUserIdentifier('abc123');
Mint.logEvent('Buttercup-Go', 'info',<JSON - whatever data you want to send>);
```



APM – New Relic

- Instrument the app
- Add the JavaScript
- APM Add-On in Splunk
- View APM Data!



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How Does This All Fit Together?

Understanding the pieces...



Run & Monitor



Build Chain Automation



DevOps + Application Monitoring





Live Demo!



Bringing It Together for DevOps



Bringing It Together for Business & Users

| splunk> App: Buttercup Games ~ Domnie | | | splunk> App: Buttercup Games ~ Domnick Eger > | | | | splunk> App: Buttercup Games > Domnick Eger > | | | | mnick Eger 🗸 Messages 🗸 Settings 🗸 . | ✓ Messages ✓ Settings ✓ Activity ✓ Help ✓ Find | | |
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| LinkedIn | | | user.nickname 0 | Total_Games 0 | Avg_Duration 0 Ma | ax_Duration Cotal_F | 895d06dd29c5 | -Auro | 17 thomas.nordman | n Game Ov | er 45.47 s | 158 46 🔨 | | |
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32 key pitzechel | 2 | 10.31 sec | 15.03 sec | | | | | Wed Mar 29
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| 274 | | | 33 matthias2maier | 14 | 7.46 sec | 15.00 sec | | | | | _ume | | | |
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Realtime Gaming Metrics

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Last 30 days | Detail | ilters | | | | Edit Export v | CaveMap
Select a Time Range
Last 24 hours | Select a Player | Choose a view | Hide Filters | | Edit Export V |
| | | To play <u>c</u> | jo to: http://buttei | rcup.rocks | | | | | | | | |
| Current Games | | Highest Score | | Total G | ames Played | | SO PLAY THE GAM | ME! | | | | |
| | 26 - | ₽ ti | nomas.nordman | n: 46 | 3, | ,009 7
26 | Games Played | Longest Game | Avg Game 8-47 s | Top Score
46 | Gates Passed 3.649 | Total Flaps |
| Longest Game Dur | ation | Most Games Played | | Highest # of Flaps | • | Total # of Flaps | | | ••••• | | -, | |
| thomas.nord | lmann: 45.5 s | i.schmitt: 129 | BUTTERCUP | thomas.nordmanr | : 158 | 67,540 | REALTIME Cave Map | | | | | 400 |
| InGame (CLICK TO | DRILLDOWN BELOW) | | | | | | 750 | | | | | 300 |
| game.id ≎
895d06dd29c5 | Profile Pic 🗢 | Games Played user.nickname thomas.nordman | Game Statu | s \diamond Duration \diamond 45.47 s | Flaps ≎
158 | Score ↓ ScoreTrend ↓ 46 | 500 | | | | | Cap Top
200 Ti ■ Gap
Bottom
CanTrand |
| d30d8a393f11 | | 11 christian.k186 | Game Over | 44.52 s | 154 | 45 | 250 | | | | | 100 |
| fb028189d91d | | 55 kanno19890124 | Game Over | 42.54 s | 148 | 43 | | | | | | |
| 7cd3f7a848c3 | | 55 kanno19890124 | Game Over | 41.50 s | 149 | 42 _/ | Cave Map of games playe | ed for Last 15 Minutes | | | | |
| bdf3b9841858 | | 17 thomas.nordman | n Game Over | 41.65 s | 142 | 42 | | | | | | |
| e6400923f89a | КА | 111 karasawa-ta | Game Over | 41.53 s | 142 | 42 | | | | | | |
| 3a2a81433f73 | MA | 3 marcel.dutt | Game Over | 40.76 s | 141 | 41 | | | No re | sults found. | | |
| 3be7c0b9e498 | КО | 50 koga-t | Game Over | 40.58 s | 143 | 41 | | | | | | |
| 0123643a2a9c | КА | 111 karasawa-ta | Game Over | 39.63 s | 137 | 40 | | | | | | |
| 3893355e512c | | 55 kanno 19890 124 | Game Over | 39.60 s | 137 | 40 | About Support File a Bug Do | ocumentation Privacy Policy | | | | © 2005-2017 Splunk Inc. All rights reserved. |

"http://buttercup-

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404 3322

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Splunk with Modern Application Development

- Dev (Commit)
- Build
- Test
- Deploy
- Monitor
- End User
- ► APM
- Business



Splunk with Modern Application Development



Bringing It Together for Business & Users

| splunk> App: Buttercup Games ~ Domnie | | | splunk> App: Buttercup Games ~ Domnick Eger > | | | | splunk> App: Buttercup Games > Domnick Eger > | | | | mnick Eger 🗸 Messages 🗸 Settings 🗸 . | ✓ Messages ✓ Settings ✓ Activity ✓ Help ✓ Find | | |
|---------------------------------------|-------------------------------|----------------------------------|---|------------------------------|---|------------------------|---|---------------------|--------------------------------------|-------------------|---------------------------------------|--|--|--|
| Paarah Authantiaation Over | all State Secretoard Datail (| CaveMan Dashbaarda | Search Authentication Ove | rall Stats Scoreboard Detail | CaveMap Dashboards | | Search Authenticatio | on Overall Stats | Scoreboard Detail CaveMap Dashboards | | | Buttercup Games | | |
| Search Authentication Over | | Cavemap Dasinolatus | Overall Stats | | | | Scoreboard [| Detail | | | | Edit Export ~ | | |
| Authentication | | | | | | | Select a Time Range | | | | | | | |
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| All time | ✓ Hide Filters | | | | To play go to: I | http://buttercup.roc | | | To play go | to: http://butter | cup.rocks | | | |
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| | | | | | | | | Uo | 😤 tho | mas.nordman | n: 46 🧧 🧧 | 2,234 0 | | |
| Google | | | 22 | 34 | | 26 | - | · · | - | | | | | |
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Time | Top Score | Best Avg Score | thomas.nord | mann: 45.5 s | 1.Schinitt. 129 | BOCCWER OF | thomas.nordmann: 158 | 45,200 | | |
| Facebook | | | i.schmitt | thomas nordmann | thomas.nordmann | thomas.nordn | InGame (CLICK TO | DRILLDOWN BELOW) | | | | | | |
| | | | | ulomas.norumann | | | game.id 0 | Profile Pic 0 | Games Played 🌣 user.nickname 🜣 | Game Sta | atus 🌣 Duration 🗘 | laps Score ScoreTrend | | |
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| 0 200 | 400 600 | | 1 thomas.nordmann | 19 | 24.53 sec | 45.47 sec | d20d8=202f11 | | 11 objetion k196 | Come Ou | 44.52 a | 164 45 0 | | |
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3 marcel.dutt | 3 | 20.81 sec | 44.52 sec | 030008393111 | | TT GHISIBILKTUV | Galile Ov | 44.52.8 | | | |
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| 12573 | victor.saiz | LinkedIn | 21 goevert.tobias | 6 | 10.93 sec | 18.84 sec | | 70931 | | 12,412.41 s | 43286 9780 | | | |
| MARKA STREET | | | 22 marc-kev.lindner | 11 | 10.45 sec | 18.87 sec | | | | | « prev 1 2 3 | 4 5 6 7 8 9 10 next > | | |
| | amball49 | Coogle | 23 uvirk
24 stefan.schoellermann | 33 | 5.05 sec
7.16 sec | 18.43 sec | Game Status for the | mas.nordmann | Current Score for thomas.nordmann | Flap Time | eline | | | |
| 1000 | ampanito | Google | 25 breng.benjamin | 7 | 5.73 sec | 16.86 sec | | | AC | 200 | | | | |
| | | | 26 michael | 23 | 6.16 sec | 16.99 sec | dam | e over | · 40 | flaps) | | | | |
| 2 | thomas.nordmann | Facebook | 27 nathalie.hoppe | 61 | 5.23 sec | 16.85 sec | 5 | _ | | 001 (game | | | | |
| 202 | | | 29 gklos | 20 | 3.04 sec | 14.99 sec | | | | avg | | avg(galaps) | | |
| | officedchou | Google | 30 henrik.busch | 3 | 6.41 sec | 15.08 sec | | | | | 12:00:00 PM 12:00:10 PM 12:00:20 | PM 12:00:30 PM | | |
| | | | 31 julian.wiegmann
32 key pitzechel | 2 | 10.31 sec | 15.03 sec | | | | | Wed Mar 29
2017 | | | |
| 274 | | | 33 matthias2maier | 14 | 7.46 sec | 15.00 sec | | | | | _ume | | | |
| СН | chermosillo | Standard User/PW | 34 maddin.kraus | 26 | 3.34 sec | 14.02 sec | | | | Game Tin | neline for thomas.nordmann | | | |
| | | | 35 osman.nidal | 32 | 5.29 sec | 14.08 sec | | | | 3 | | | | |
| | edvardfranke | Standard User/PW | 37 inaje1109 | 3 | 4.00 Sec | 13.05 sec | | | | 2 | | | | |
| ED | | | 38 invisibler7x | 19 | 4.30 sec | 12.98 sec | | | | 1 | | game_init | | |
| | | | 39 a.lenzgen.tx | 12 | 4.78 sec | 12.07 sec | | | | | | game_over
game_point
game_start | | |
| | | | 40 chermosilio | 2234 | 3.92 sec
601.61 sec | 1,409.94 sec | | | | 12 | 00:00 PM 12:00:10 PM 12:00:20 PM | 12:00:30 PM | | |
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| About Support File a Bug Do | cumentation Privacy Policy | | | | | | | | | | | | | |
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Next Steps...

Try HEC for yourself: <u>http://docs.splunk.com/Documentation/Splunk/6.6.2/Data/UsetheHTTPEventCollector</u>

Test drive the Splunk App for AWS: <u>https://splunkbase.splunk.com/app/1274/</u>

- Tryout the New Relic Integration: Add-On: <u>https://splunkbase.splunk.com/app/3465/</u> App: <u>https://splunkbase.splunk.com/app/3465/</u>
- Tryout the Jenkins App: <u>https://splunkbase.splunk.com/app/3332/</u>

• Test Drive the Akamai App: <u>https://splunkbase.splunk.com/app/3026/</u>



Thank You

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