

splunk> .conf2017

Proactive Oracle Database Monitoring And Capacity Planning With Splunk

Tyler Muth | Analytics Architect

September 2017 | Washington, DC

Introduction

► Oracle Databases

- Are part of many high-visibility systems
- Are highly instrumented
- Lack good tools to aggregate and visualize this data

► Splunk

- Can consume, visualize and aggregate this data
- Can correlate this data with other parts of the “system”
- Can add tremendous value to Oracle customers

130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D5SL9FF1ADFF3 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FI-SW-01" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 468 125.17 14.129
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D5SL7FF6ADFF0 HTTP 1.1" 404 322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=KQ-CW-01" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 468 125.17 14.129
128.241.220.82 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=5D5SL9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D5SL7FF6ADFF0 HTTP 1.1" 200 385 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-18&product_id=AV-CB-01" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 468 125.17 14.129
128.241.220.82 - - [07/Jan 18:10:56:156] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5SL9FF1ADFF3 HTTP 1.1" 200 385 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=KQ-CW-01" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 468 125.17 14.129

Why Splunk For Oracle?

Security

Performance Monitoring

Capacity Planning

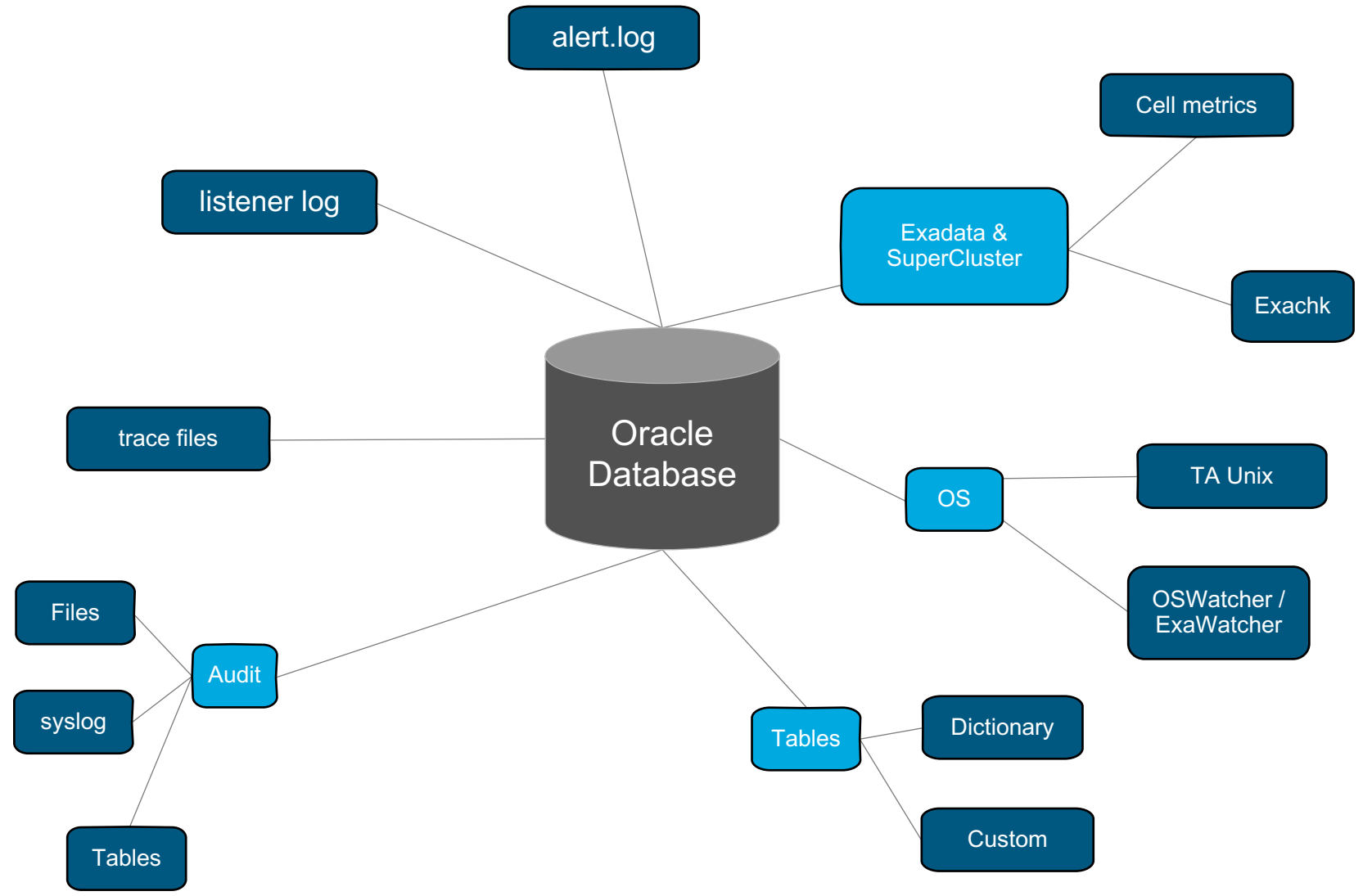
Configuration Management

Error Analysis

Single-Pane View of "Application"

130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15L9FF1ADFF3 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D55L7FF0ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/category.screen?category_id=GIFTS"
317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3"
10.0.0.1:51; SV1; .NET CLR 1.1.4322" 468 125.17 14 - - [07/Jan 18:10:56:156] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D55L7FF0ADFF0 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/category.screen?category_id=GIFTS&JSESSIONID=5D15L9FF1ADFF3"
10.0.0.1:51; SV1; .NET CLR 1.1.4322" 468 125.17 14 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3"
10.0.0.1:51; SV1; .NET CLR 1.1.4322" 468 125.17 14 - - [07/Jan 18:10:56:156] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D55L7FF0ADFF0 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/category.screen?category_id=GIFTS&JSESSIONID=5D15L9FF1ADFF3"
10.0.0.1:51; SV1; .NET CLR 1.1.4322" 468 125.17 14 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3"

What Can You Splunk?

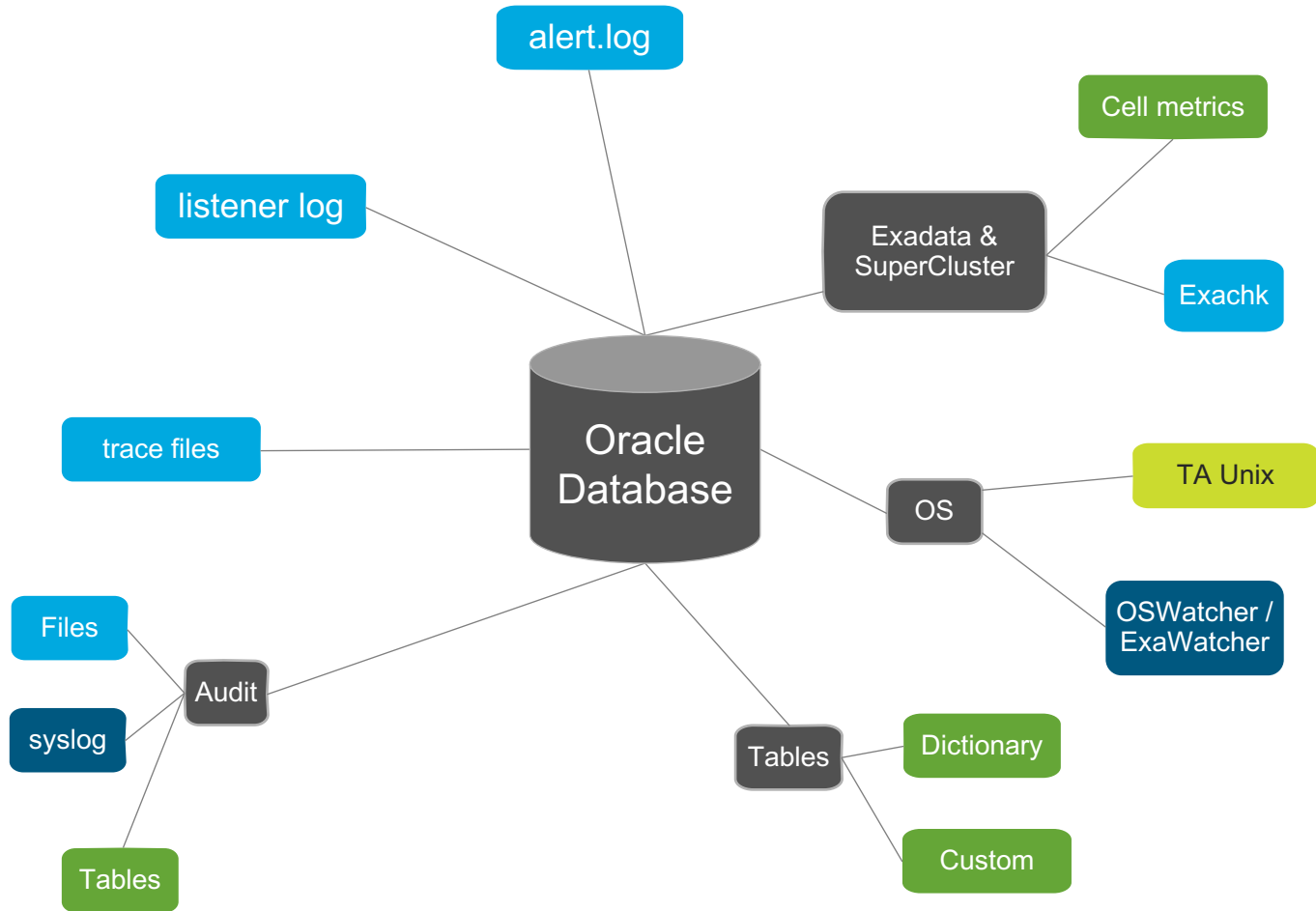


```

130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15LAF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FI-5W-03"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D35L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=KQ-CW-01"
317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:187] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:188] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:189] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:190] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:191] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:192] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:193] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:194] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:195] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:196] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:197] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:198] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:199] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
:/buttercup-shopping_id=RP-LI-02" 468 125.17.14 - - [07/Jan 18:10:56:200] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3"
  
```

How Can You Splunk It?

- Add-on for Unix
- DB Connect (DBX)
- Splunk Add-on for Oracle DB
- Standard File Monitor



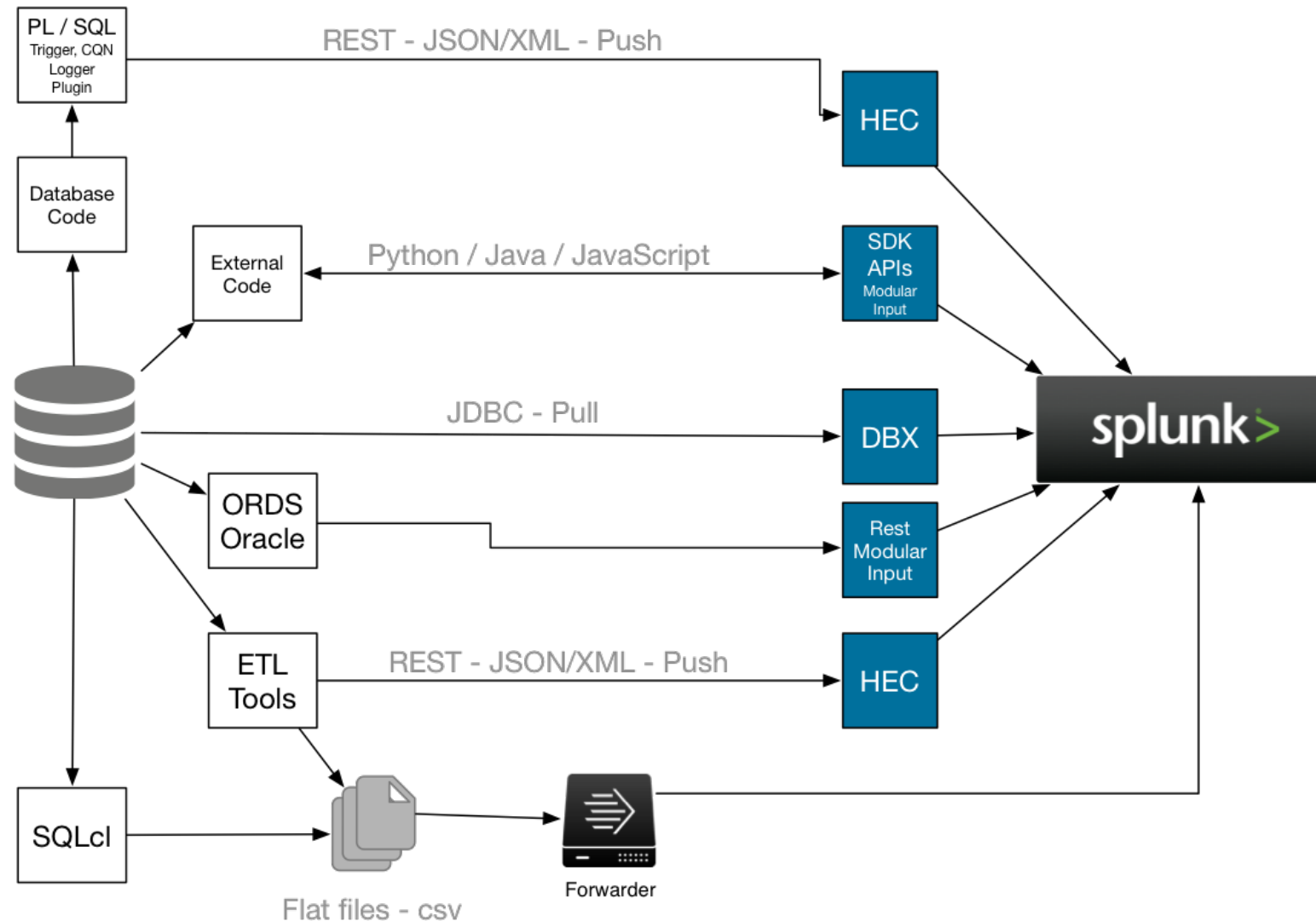
130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15L9FF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D55L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/category.screen?category_id=CF1P5"
317.27.160.0.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=AV-CB-01&JSESSIONID=5D15L9FF1ADFF3"
125.17.14.14 - - [07/Jan 18:10:55:187] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D55L9FF1ADFF3"
125.17.14.14 - - [07/Jan 18:10:55:198] "GET /category.action=remove&itemId=EST-11&product_id=AV-CB-01&JSESSIONID=5D15L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.action=remove&itemId=EST-11&product_id=AV-CB-01&JSESSIONID=5D15L9FF1ADFF3"

Why Would You Splunk These?

	Security	Performance	Capacity Planning	Configuration Management	Error Analysis
alert.log	✓			✓	✓
Trace files					✓
Audit files	✓				
Audit tables	✓				
Dictionary Tables		✓	✓	✓	✓
Custom Tables					✓
OS – TA Unix	✓	✓		✓	
Exadata - exachk		✓		✓	
Exadata – Cell metrics		✓	✓		

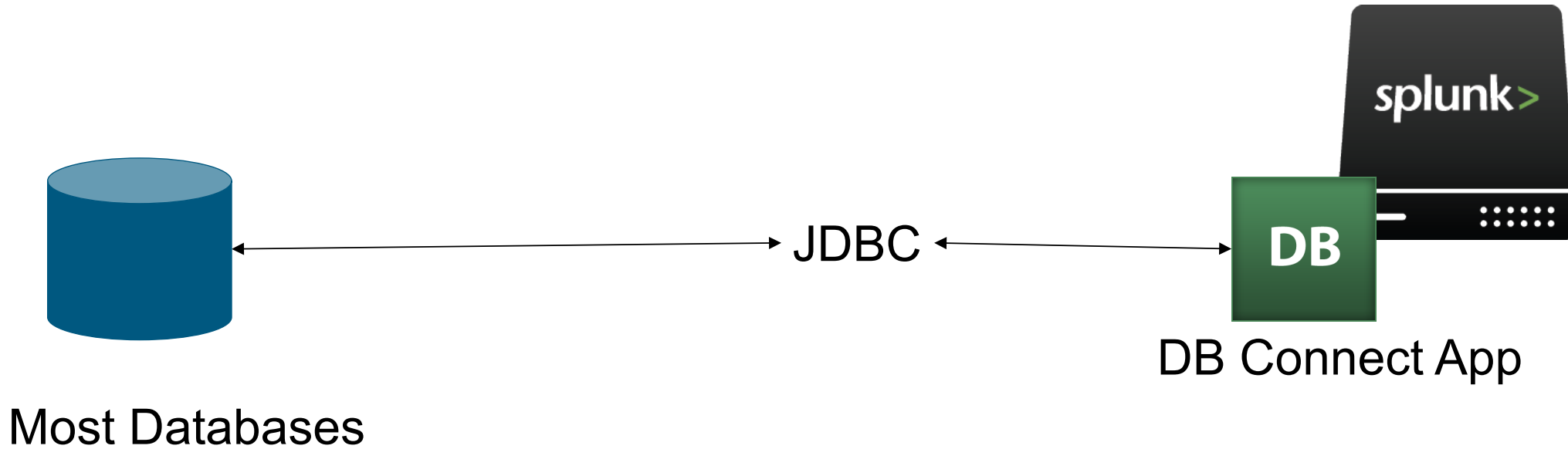
130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03" "Mozilla/5.0 (Windows NT 6.0; WOW64; rv:30.0) Gecko/20100101 Firefox/30.0" [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&JSESSIONID=5D55L9FF1ADFF3" [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3855 "http://buttercup-shopping.com/oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADFF3" [07/Jan 18:10:55:187] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3855 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=5D55L9FF1ADFF3" [07/Jan 18:10:55:188] "GET /category.action=remove&itemId=EST-6&product_id=F1-SW-03" "Mozilla/5.0 (Windows NT 6.0; WOW64; rv:30.0) Gecko/20100101 Firefox/30.0" [07/Jan 18:10:55:189] "GET /category.action=remove&itemId=EST-6&product_id=F1-SW-03" "Mozilla/5.0 (Windows NT 6.0; WOW64; rv:30.0) Gecko/20100101 Firefox/30.0"

Getting Oracle Data Into Splunk



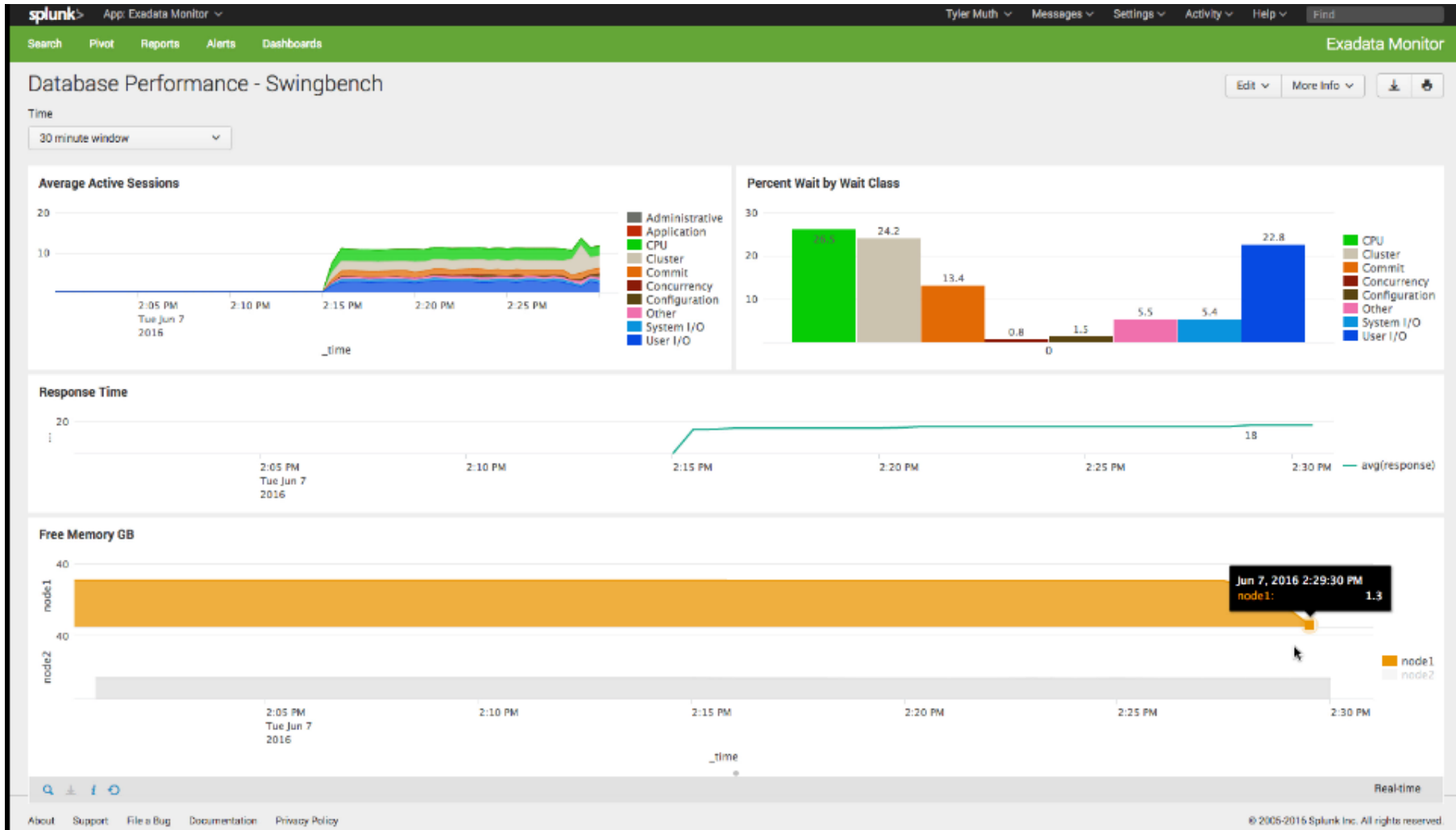
Demo – Average Active Sessions

- ▶ Using DB Connect (DBX) to pull DB metrics stored in tables / views



```
130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15L9FF1ADFF3 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FI-SW-03" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 468 125.17 14  
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D35L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-268product_id=K0-CW-01" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 468 125.17 14  
130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15L9FF1ADFF3 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FI-SW-03" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 468 125.17 14  
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D35L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-268product_id=K0-CW-01" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 468 125.17 14  
130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15L9FF1ADFF3 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FI-SW-03" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 468 125.17 14  
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D35L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-268product_id=K0-CW-01" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 468 125.17 14
```

Demo – DB Memory & CPU



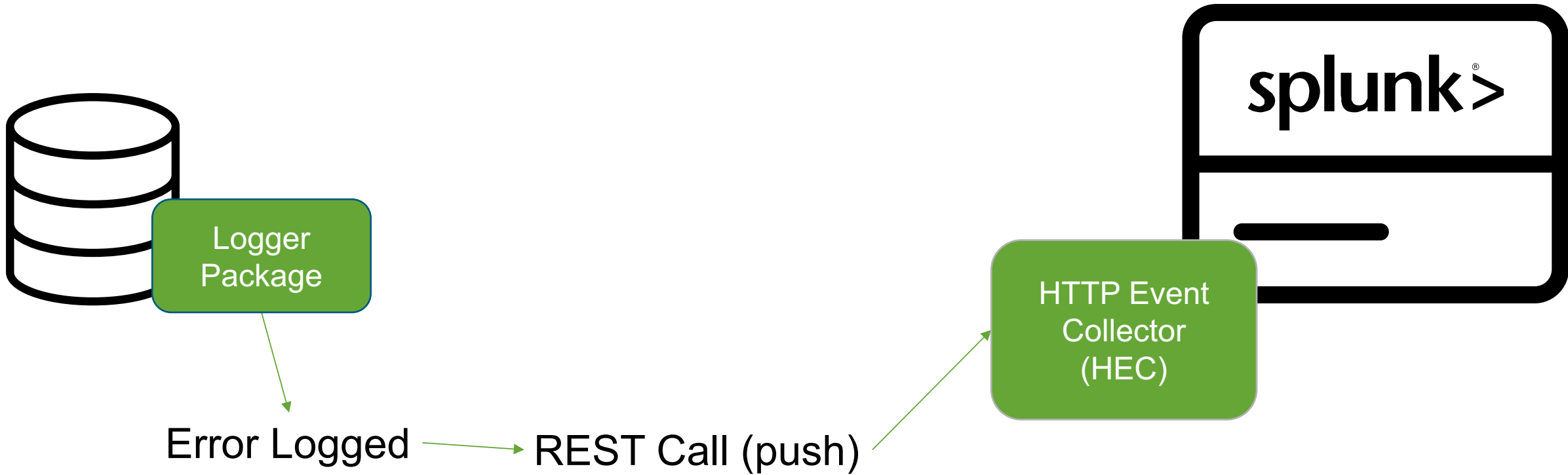
130.60.4 - - [07/Jun 2016 22:00:00] "GET /category/screen?category_id=GIFTS&SESSIONID=SD5L9FF1ADFF3 HTTP 1.1" 200 3322 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03" Moz/1.0.0
 128.241.220.82 - - [07/Jun 2016 22:00:00] "GET /product.screen?product_id=FL-DSH-01&SESSIONID=SD5L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/category/screen?category_id=GIFTS" Moz/1.0.0
 317.27.160.0.0 - - [07/Jun 2016 22:00:00] "GET /category/screen?category_id=GIFTS&SESSIONID=SD5L9FF1ADFF3 HTTP 1.1" 200 3322 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03" Moz/1.0.0
 130.60.4 - - [07/Jun 2016 22:00:00] "GET /category/screen?category_id=GIFTS&SESSIONID=SD5L9FF1ADFF3 HTTP 1.1" 200 3322 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03" Moz/1.0.0
 128.241.220.82 - - [07/Jun 2016 22:00:00] "GET /product.screen?product_id=FL-DSH-01&SESSIONID=SD5L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/category/screen?category_id=GIFTS" Moz/1.0.0
 317.27.160.0.0 - - [07/Jun 2016 22:00:00] "GET /category/screen?category_id=GIFTS&SESSIONID=SD5L9FF1ADFF3 HTTP 1.1" 200 3322 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03" Moz/1.0.0
 130.60.4 - - [07/Jun 2016 22:00:00] "GET /category/screen?category_id=GIFTS&SESSIONID=SD5L9FF1ADFF3 HTTP 1.1" 200 3322 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03" Moz/1.0.0
 128.241.220.82 - - [07/Jun 2016 22:00:00] "GET /product.screen?product_id=FL-DSH-01&SESSIONID=SD5L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/category/screen?category_id=GIFTS" Moz/1.0.0
 317.27.160.0.0 - - [07/Jun 2016 22:00:00] "GET /category/screen?category_id=GIFTS&SESSIONID=SD5L9FF1ADFF3 HTTP 1.1" 200 3322 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03" Moz/1.0.0

Demo Audit Logging

- ▶ Demo of bringing audit log data into splunk

130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15L9FF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-01" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D55L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=K0-CU-01" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)"
317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)"
10.0.0.1 - - [07/Jan 18:10:55:187] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-14&product_id=K0-CU-01" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)"
10.0.0.1 - - [07/Jan 18:10:55:189] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-14&product_id=K0-CU-01" "Mozilla/5.0 (Windows NT 5.1; SV1; .NET CLR 1.1.4322)"

Demo- Logger Plugin



130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D51L9FF1ADFF3 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03" "Mozilla/5.0 (Macintosh; Intel Mac OS X 11_0_0; rv:53.0) Gecko/20100801 Firefox/35.0"

128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D51L9FF1ADFF3 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-268&product_id=KQ-CU-01" "Mozilla/5.0 (Macintosh; Intel Mac OS X 11_0_0; rv:53.0) Gecko/20100801 Firefox/35.0"

317.27.160.0.0 - - [07/Jan 18:10:56:156] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D51L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D51L9FF1ADFF3" "Mozilla/5.0 (Macintosh; Intel Mac OS X 11_0_0; rv:53.0) Gecko/20100801 Firefox/35.0"

125.17.14.189 - - [07/Jan 18:10:55:187] "GET /oldlink?item_id=EST-26&JSESSIONID=5D51L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-189" "Mozilla/5.0 (Macintosh; Intel Mac OS X 11_0_0; rv:53.0) Gecko/20100801 Firefox/35.0"

Thank You

Don't forget to **rate this session** in the
.conf2017 mobile app

splunk® **.conf2017**