Proactive Oracle Database Monitoring And Capacity Planning With Splunk

Tyler Muth

Analytics Architect, Splunk Public Sector

Collateral - bit.ly/conf16-tmuth

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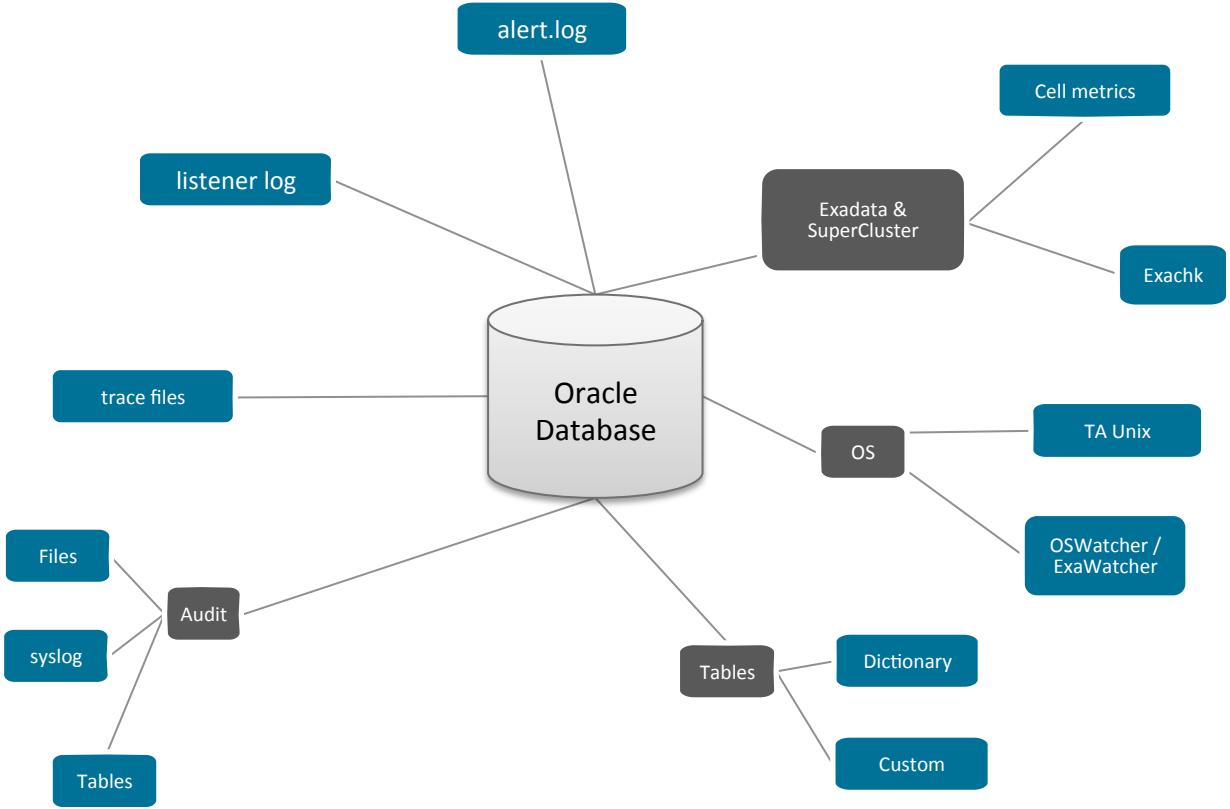
Who Am I?

- Oracle – 16 years
  - APEX Development Team
  - Chief Database Engineer, Public Sector
  - Lead many Exadata POCs
  - Wrote AWR-Miner for Sizing and Capacity Planning, Logger, AWR Formatter

Why Splunk for Oracle?

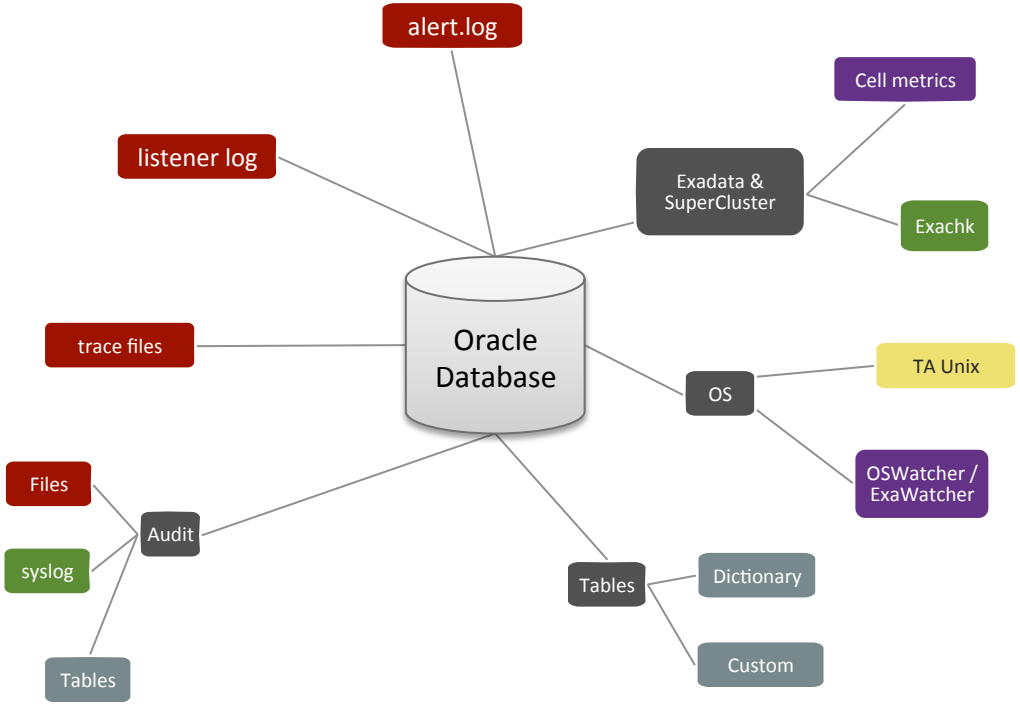
- Security
- Performance Monitoring
- Capacity Planning
- Configuration Management
- Error Analysis
- Single-Pane View of “Application”

What Can You Splunk?



How Can You Splunk It?

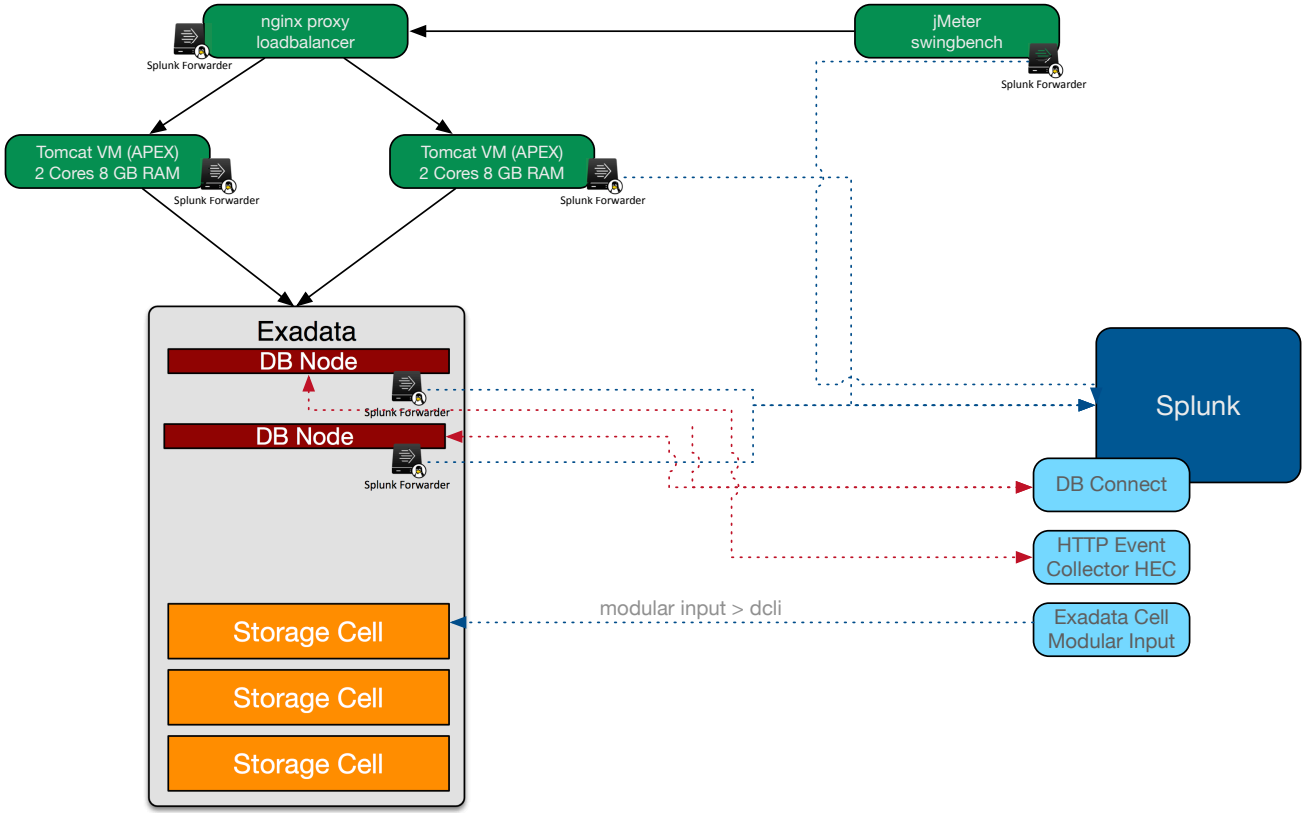
- Add-on for Unix
- DB Connect (DBX)
- Splunk Add-on for Oracle DB
- Modular Input (in-progress)
- Standard File Monitor



Why Would You Splunk These?

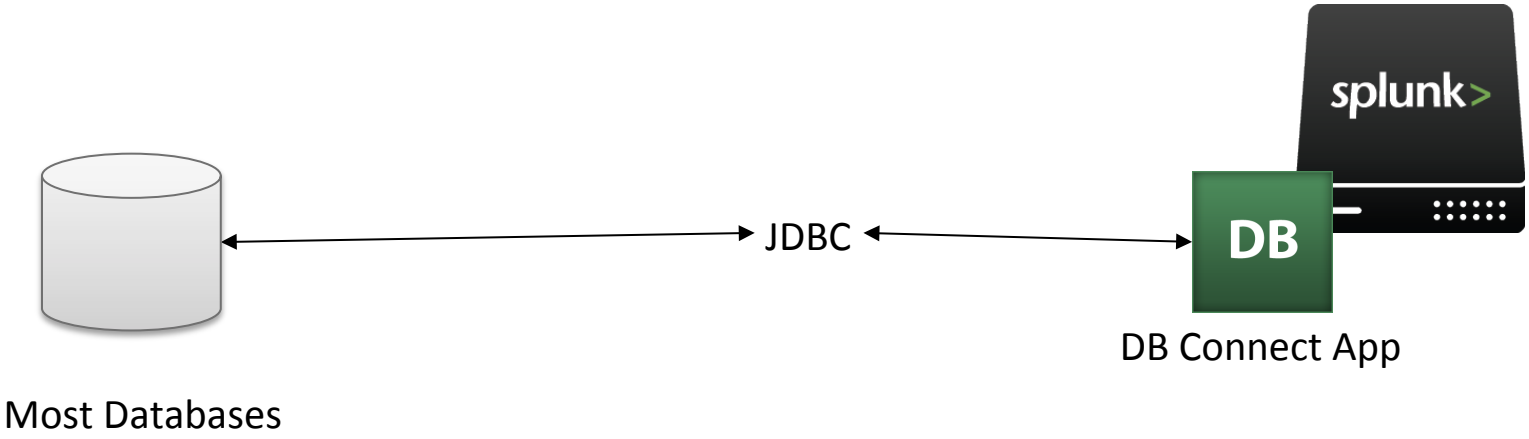
	Security	Performance	Capacity Planning	Configuration Management	Error Analysis
alert.log	✓			✓	✓
trace files					✓
Audit Files	✓				
Audit syslog	✓				
Audit Tables	✓				
Dictionary Tables		✓	✓	✓	✓
Custom Tables					✓
OS – TA Unix	✓	✓			
OS – OSWatcher / Exawatcher	✓	✓	✓		
Exadata - exachk		✓		✓	
Exadata – Cell metrics		✓	✓	✓	

Demo Architecture

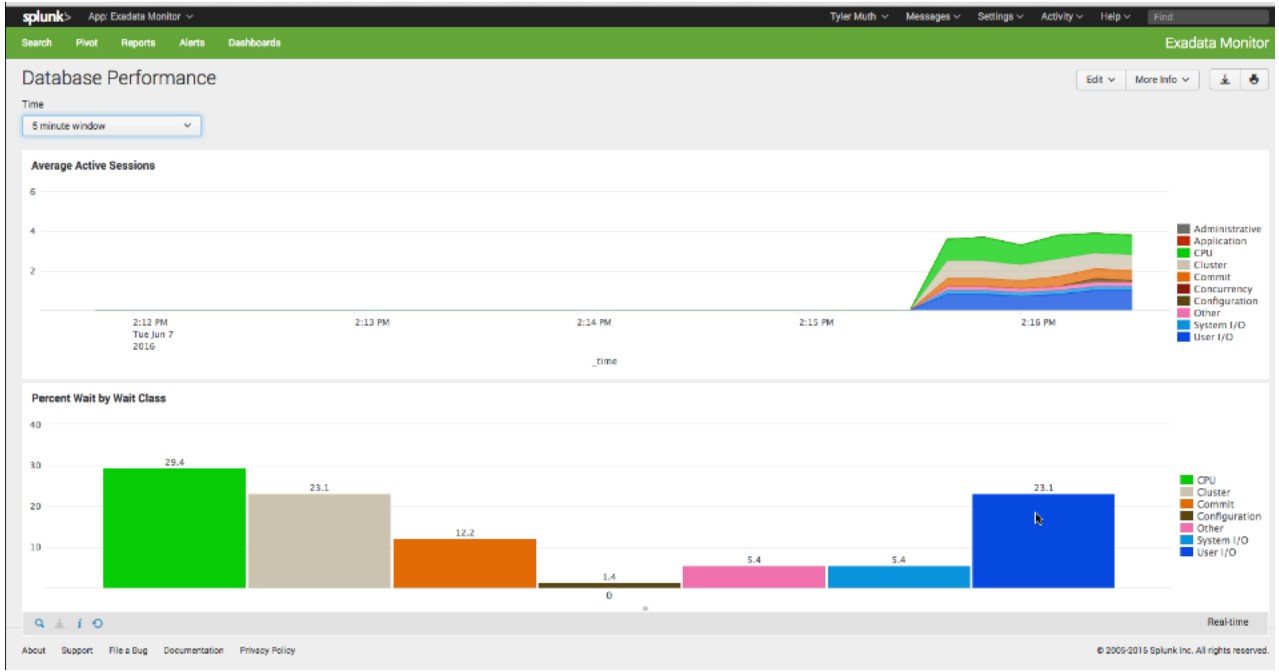


Demo – Average Active Sessions

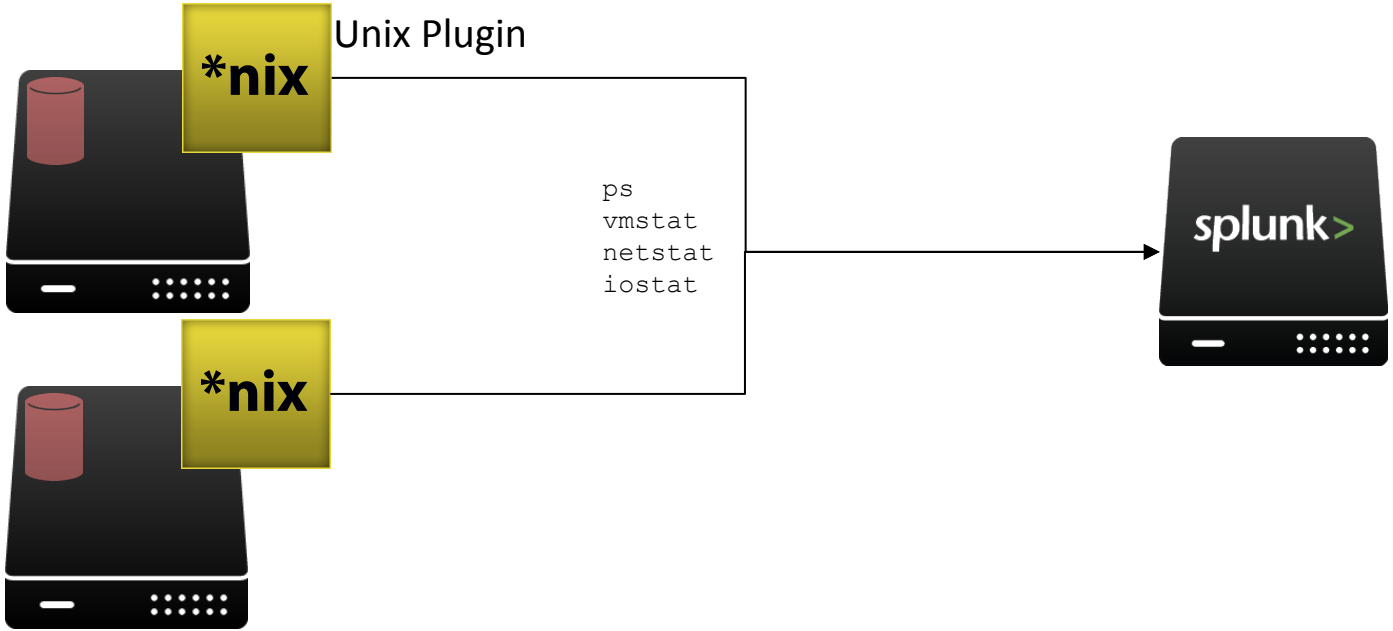
Using DB Connect (DBX) to pull DB metrics stored in tables / views



Demo – Average Active Sessions

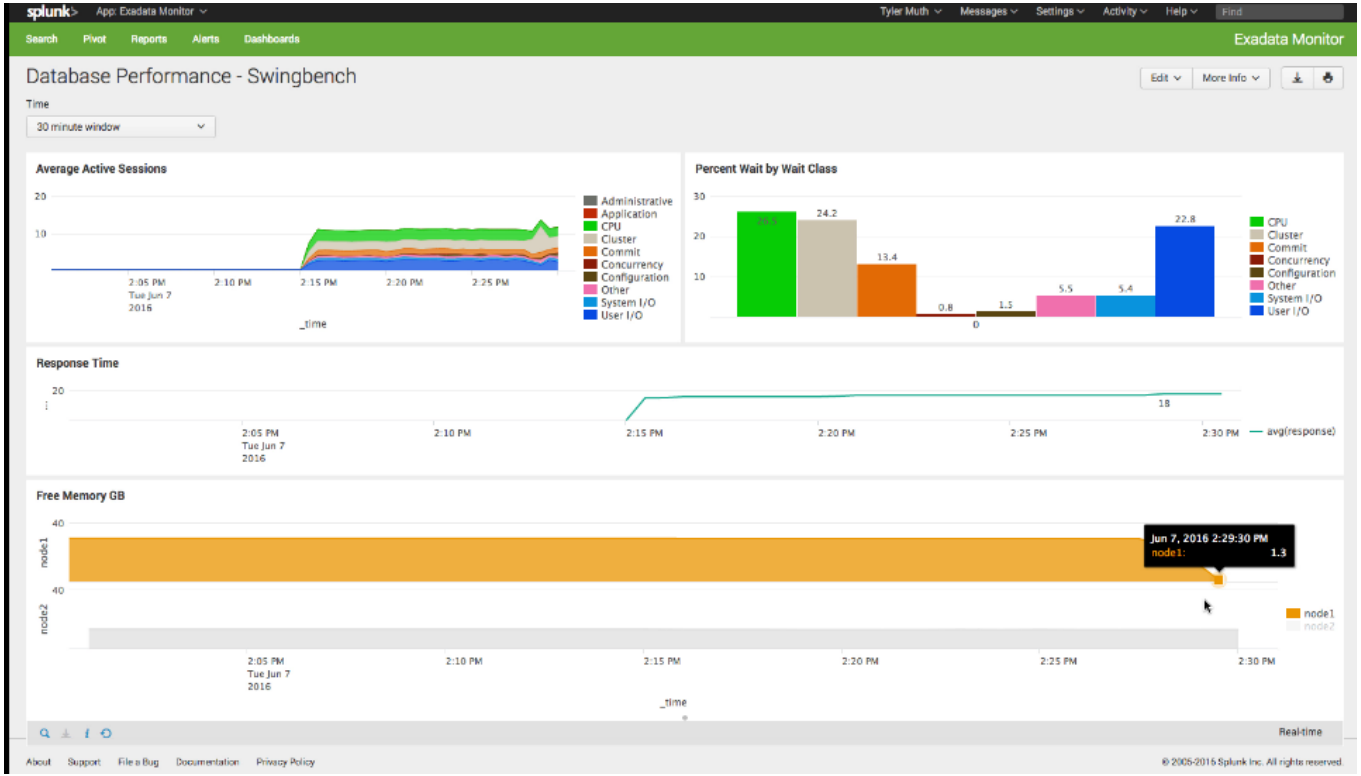


Demo – DB Memory & CPU

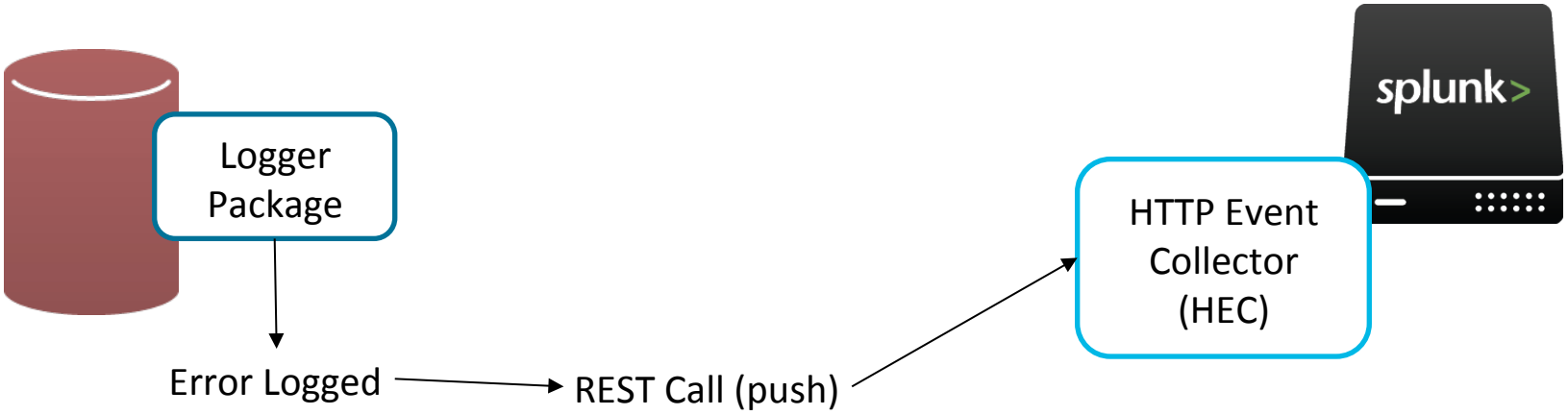


Exadata Virtual

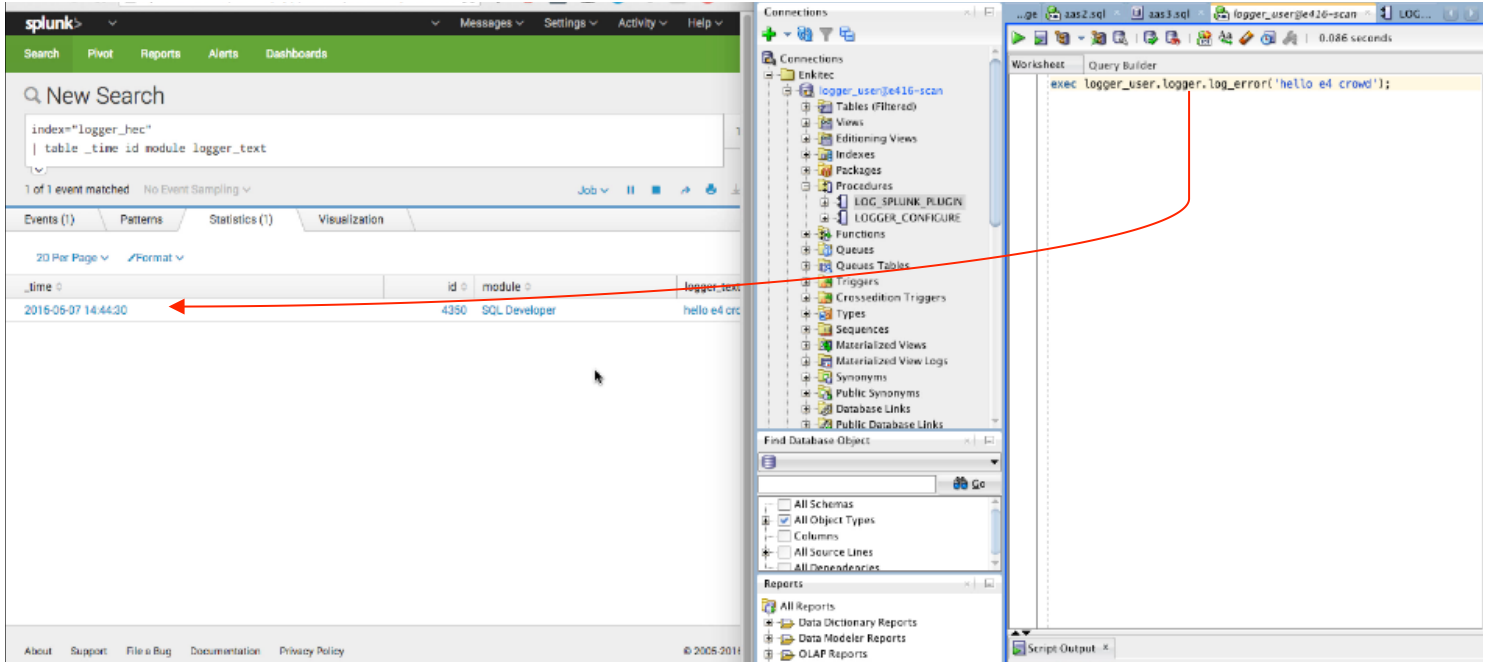
Demo – DB Memory & CPU



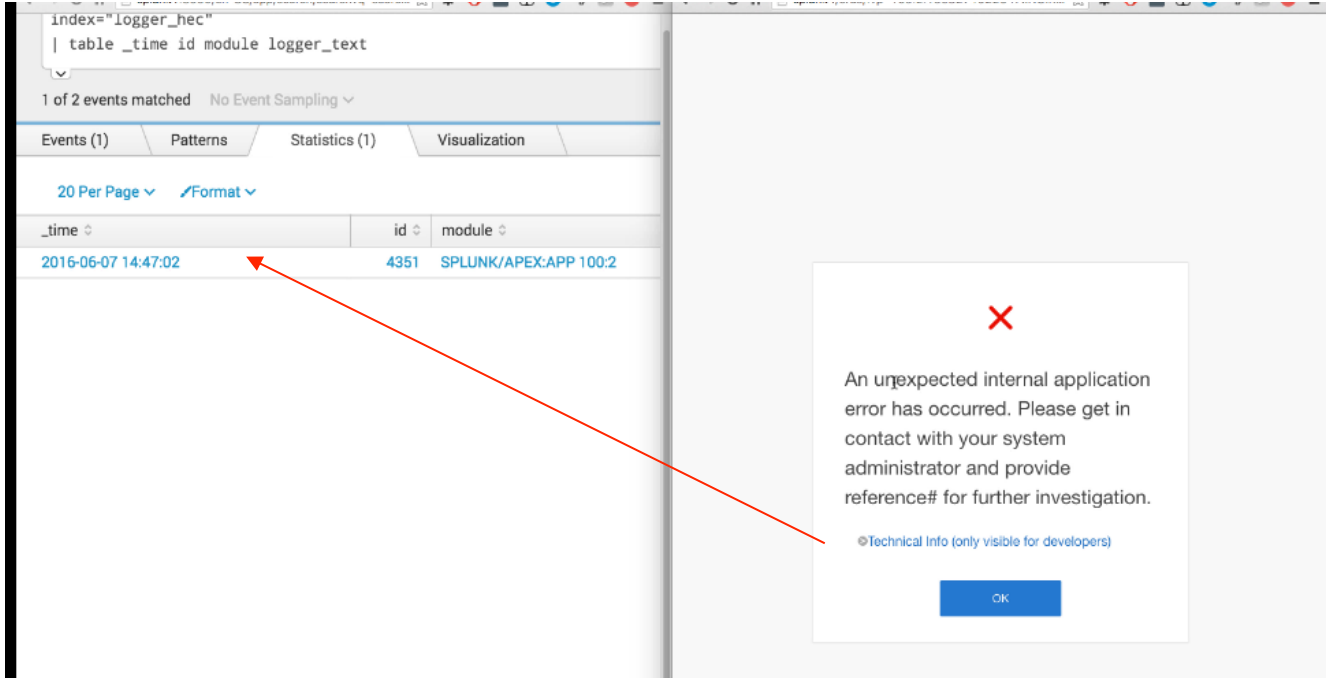
Demo– Logger Plugin



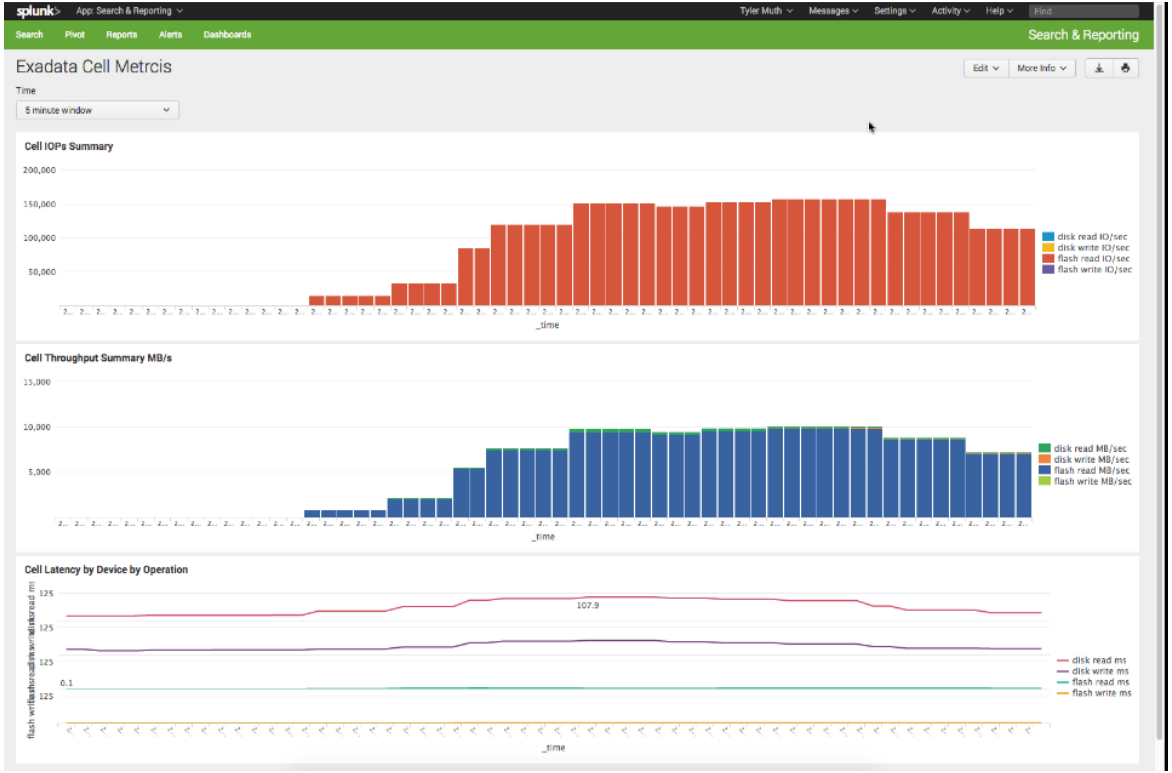
Demo– Logger Plugin



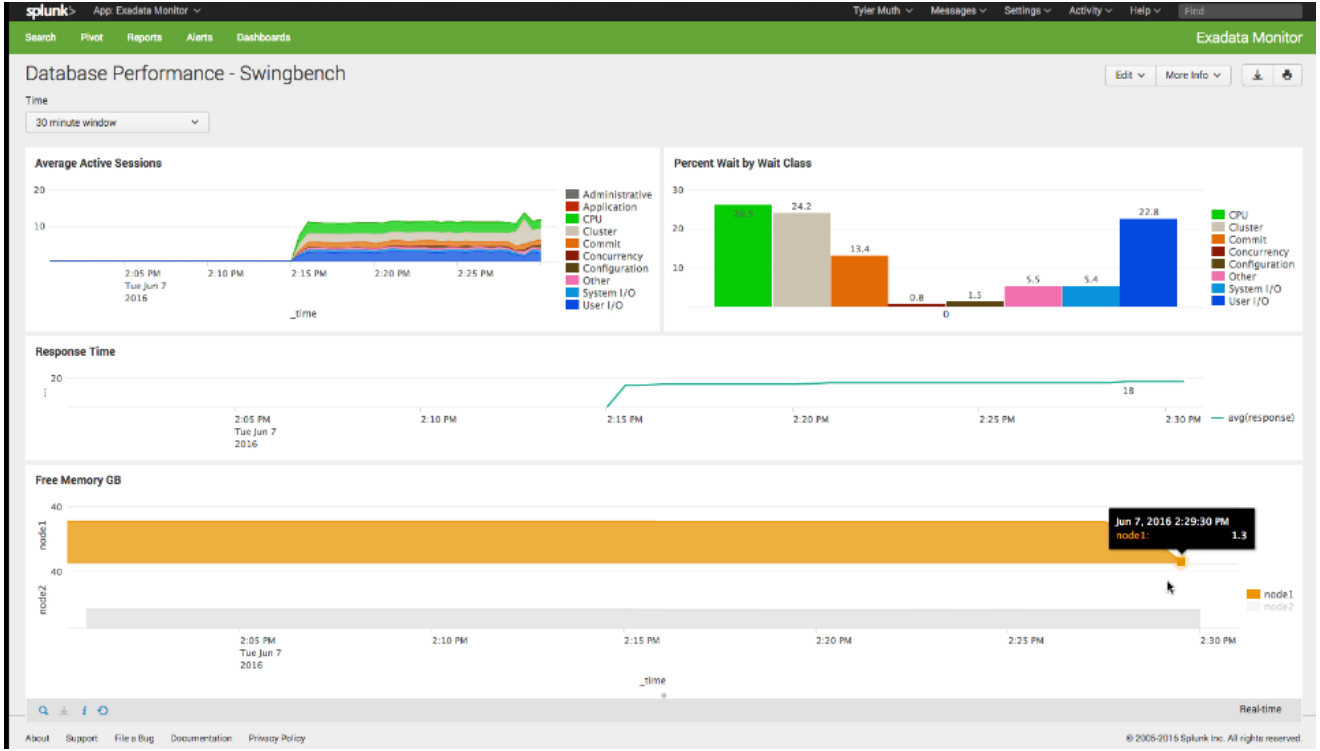
Demo– Logger Plugin



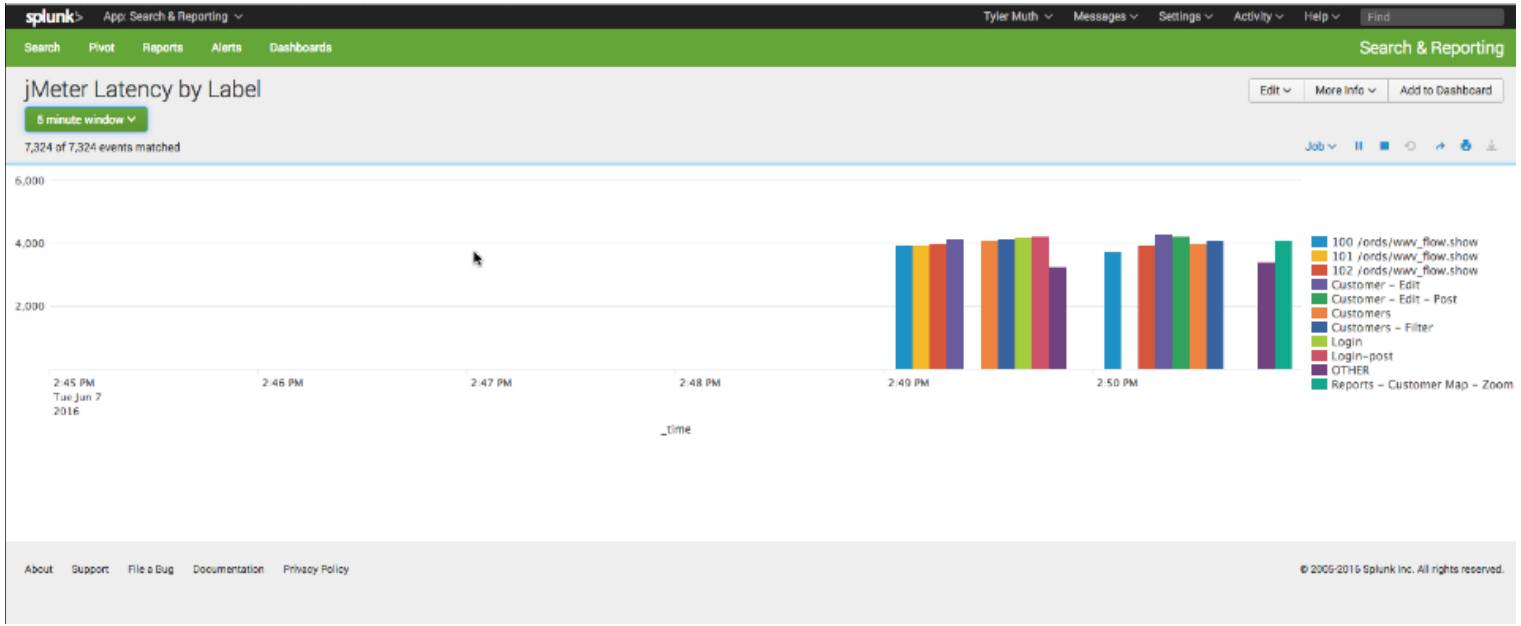
Demo – Cell Metrics



Demo - Swingbench



Demo jMeter


splunk> App: Search & Reporting
Tyler Muth
Messages
Settings
Activity
Help
Find
Search
Pivot
Reports
Alerts
Dashboards
Search & Reporting
jMeter Latency by Label
Edit
More Info
Add to Dashboard
5 minute window
7,324 of 7,324 events matched
Job
6,000
4,000
2,000
2:45 PM
Tue Jun 7
2016
2:46 PM
2:47 PM
2:48 PM
2:49 PM
2:50 PM
_time
100 /ords/wwv_flow.show
101 /ords/wwv_flow.show
102 /ords/wwv_flow.show
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Customer – Edit – Post
Customers
Customers – Filter
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Login-post
OTHER
Reports – Customer Map – Zoom
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Conclusion

- 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

THANK YOU

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