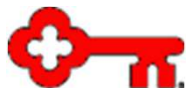


# Little Red Riding CRob and the Big, Scary Log Journey: aka How I found and fell in love with Splunk

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May 19, 2011



# Legalese.....

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Any views expressed are personal and not necessarily those of KeyCorp.

All examples provided are for illustrative purposes only.



# Who Are We?



- Fortune 500 / Top 20 Financial Institution
- Around 19,000 employees
- Over \$97 Billion in assets
- Team dedicated to support of mission-critical \*NIX-based infrastructure
- Just under 1000 Physical and Virtual servers running 14 different kernel versions across 4 Major OSes
- Piles and Piles of logs sprinkled everywhere



# Prologue – Where we use Splunk

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All \*NIX Syslog messages

\*NIX-based Platform Infrastructure and Application logs

Forward security logs from multiple platforms to Enterprise Correlation Engine

Centralized view with Delegated access to application logs

## Troubleshooting faster & easier

Comparing/Contrasting servers log volume and results

Find high volume logging servers and pro-actively investigate

\***nix app...** provides a global view of performance in comparison against whole environment

## Auditing/Alerting/Monitoring

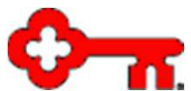
Regulation requirements

“Break The Glass” dashboard – Escalated Access Report

....but we're getting ahead of ourselves



# Once Upon A Time....



# Back in days of yore a problem lurked ahead

Manually logged into hundreds of servers

Inconsistent configs & logging

Collected logs and either correlated by hand or  
used wicked-cool shells scripts to stitch together  
(lot's of work and prone to “opportunities”)



Reactive

Slow

Manual

Logs generally ignored until  
someone made us look or  
something bad happened  
Incomplete picture

# How Splunk came to my rescue

NSCD leaky file descriptor and stale thread monitoring  
Locked accounts  
NAS/SAN connection issues  
hardware errors / memory errors  
servers acting unstable and logging a lot of things  
read-only file systems  
Log file delegation instead of LogViewer Websphere app  
Server running smoother and cleaner since we get their logs cleaned up  
Regulation requirement

keeping the environment stable and not introducing more downtime





Splunk helped “consume” our logs & use the data

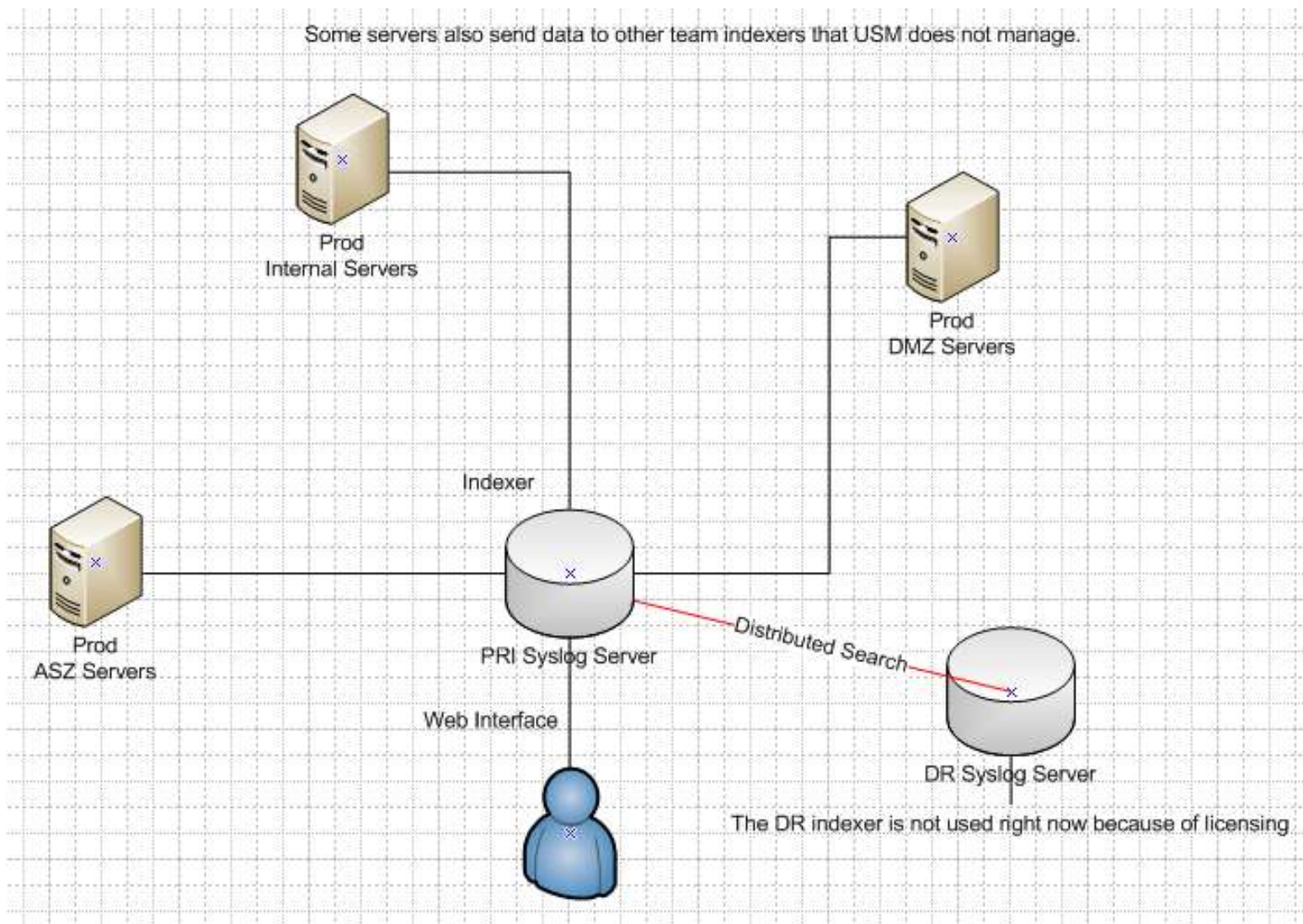




And there was much rejoicing.... yay.



# 'Splaining our Splunk



Splunk is deployed to every UNIX-based server.

Some teams also have their own indexers in addition to the Enterprise Splunk.



# A Peek into the FUTURE

Client dashboards

Cross-platform operation log aggregator

Delegated access to logs for development teams

Pci reporting

Performance trending for server consolation

for the peek into the future.. a very important item is really the centralization of being able to query a time and see the os/app/database/web/content engines/etc logs all from a single quick lookup splunkified interface..



# It's not ALWAYS a Happily Ever After....

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AIX

Dedicated indexers – dedicated headaches  
(stepping on toes can hurt)

One Bad Apple... keep an eye on “log  
spammers” to avoid license blowout





# Tips for the Splunk-noob

- **LOOK at your data.. understand it..** /dev/null it if it isn't actionable or important.. Why index and pay for it if its not worth anything? Setup a rotation schedule so that you only keep 6-12months worth of data...once proven get more space later.
- Use `restartSplunkd=true` in `serverclass.conf` for deployment server when using scripted install or LWF is in partial config and will spray endlessly same log blowing out license.
- Don't just have splunk monitor a huge directory of files.. cpu usage will be really high and unnecessary.. use some regex's.. ie. `[monitor:///opt/websphere61]` had 127351 files and would chew 50% cpu constantly..
- Even though the LWF will take <1GB.. give it 3GB of space at least to work with. It generates lots of logs internally; tune those down and don't index them unless your going to use them. Internal splunk logs do not count towards licensing
- `SupportSSLV3Only = True` if you are required to use SSL. Your client browser might require turn off `sslv2` or it will be locked out of the GUI.
- Deployment manager as of 4.1.6 can support `aix-*` which is huge or else you have to define every unique aix server uid. We filed this enhancement request.



# Q&A



And they mostly lived happily ever after.....

