

Splunk

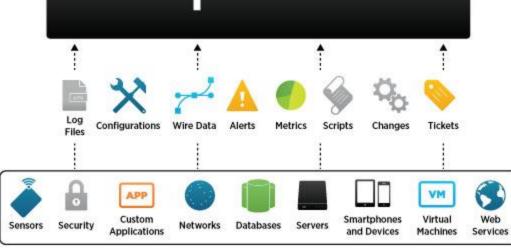
Lecture #1

What is Splunk?

Tool for searching, monitoring, and analyzing machine-generated big data

Captures, indexes and correlates real-time data in a searchable repository from which it can generate graphs, reports, alerts, dashboards and visualizations

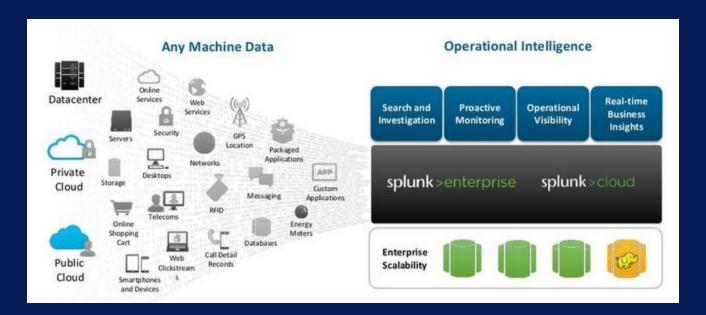




What is Splunk?

Machine Data

accessible across organization identify patterns diagnose potential problems provide intelligence



Why Splunk?

Machines produce great volumes of data

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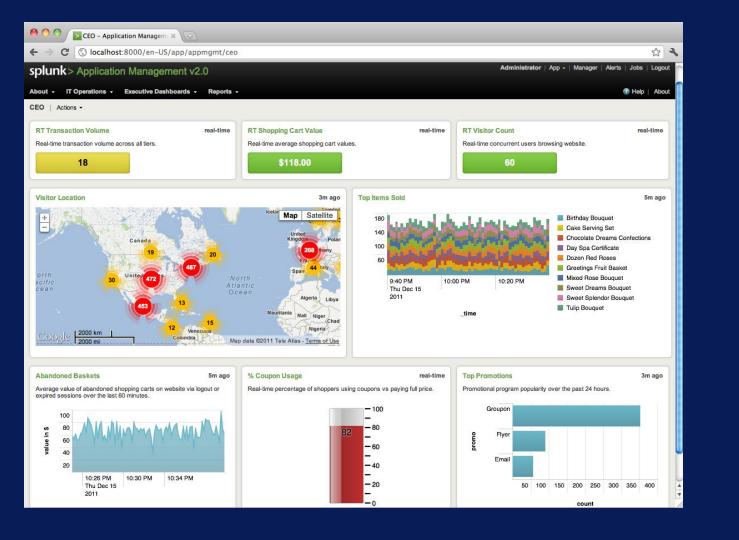
From technology to business value

What can Splunk do?

Google-like tool for machine data

- Search
- Investigate
- Troubleshoot
- Monitor
- Visualize
- Alert







Splunk Features

Central Repository
Data Access for Analytics
Structure and meaning of data
Visualization

Applications



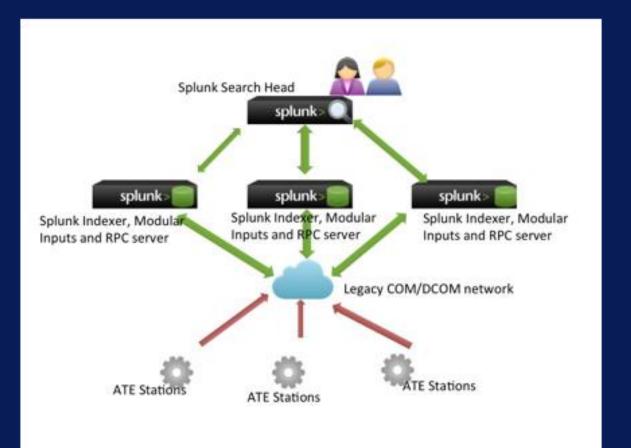
Splunk Architecture

- 4 Major components
 - Search Head
 - **Forwader**
 - Indexer
 - **Deployment Server**

Splunk Architecture Search Head

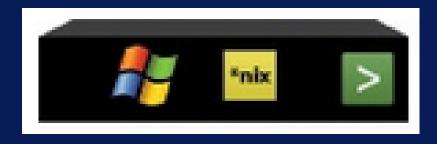
GUI for Splunk search, analysis and reporting

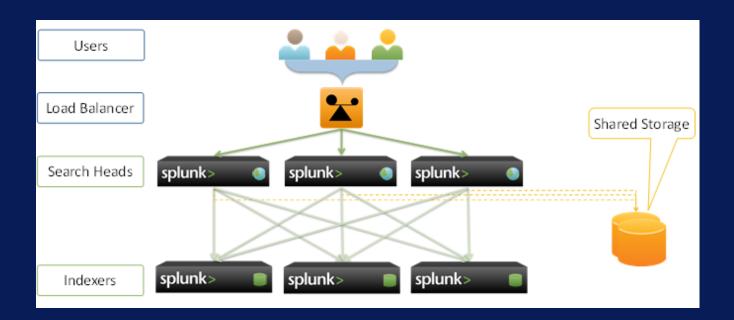




Splunk Architecture Forwader

Universal forwarder (UF)
Heavy weight forwarder (HWF)





Splunk Architecture Indexer

Indexing incoming data Searching the indexed data



Splunk Architecture Indexer





Splunk Architecture Deployment Server

Host and deploy apps to different components

Deploy technology add-ons to forwarders and indexers for index-time knowledge



What are some Splunk Use Cases?



IT and operations
Index data from firewalls
Intrusion detection system

Web Analytics

Web site performance metrics

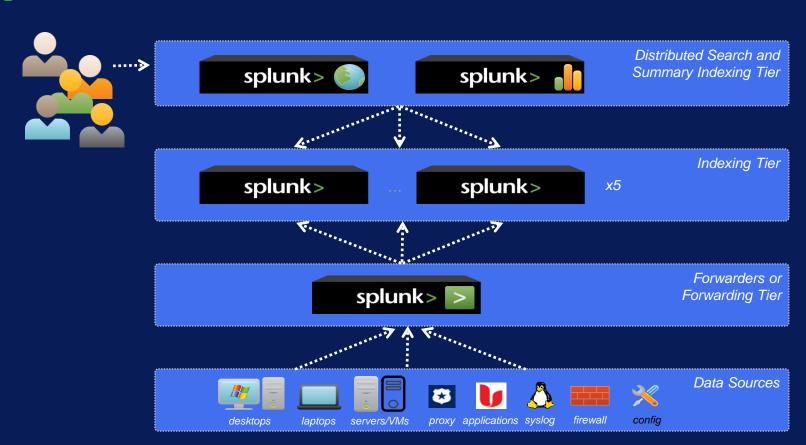
Efficacy of the on line promotions

Web traffic and stream downloads

Internet of Things
Metropolitan data
Wi-Fi enabled Nest
Elevator usage

Security Security log data **Network log data** Compliance **Auditing standards**

Splunk Architecture



Splunk and Big Data

