splunk> .conf2017

Choosing The Right Infrastructure For Your Splunk Deployment

Brett Roberts | Data Analytics Systems Engineer

September 26, 2017 | Washington, DC

Who Is Brett Roberts?

- 4 Years at Dell EMC
- Data Analytics GTM & Alliances Tech Lead
- 4 Years in Army
- MS International Management and MBA
- Work with Mike McNeil Org.
- Skier, amateur cook, wine collector
- @broberts2261
- www.BigDataBeard.com

Forward-Looking Statements

During the course of this presentation, we may make forward-looking statements regarding future events or the expected performance of the company. We caution you that such statements reflect our current expectations and estimates based on factors currently known to us and that actual events or results could differ materially. For important factors that may cause actual results to differ from those contained in our forward-looking statements, please review our filings with the SEC.

The forward-looking statements made in this presentation are being made as of the time and date of its live presentation. If reviewed after its live presentation, this presentation may not contain current or accurate information. We do not assume any obligation to update any forward looking statements we may make. In addition, any information about our roadmap outlines our general product direction and is subject to change at any time without notice. It is for informational purposes only and shall not be incorporated into any contract or other commitment. Splunk undertakes no obligation either to develop the features or functionality described or to include any such feature or functionality in a future release.

.conf2017

Key Takeaways

1. Splunk is a business critical application
2. Understanding infrastructure considerations
3. Choosing right infrastructure for YOUR Splunk deployment is critical

You Have A Basic Understanding Of…

- What Splunk is
- How Splunk works
- Infrastructure components

Splunk Has Become A Business Critical Application

Performance

Growth

Reliability

Scale

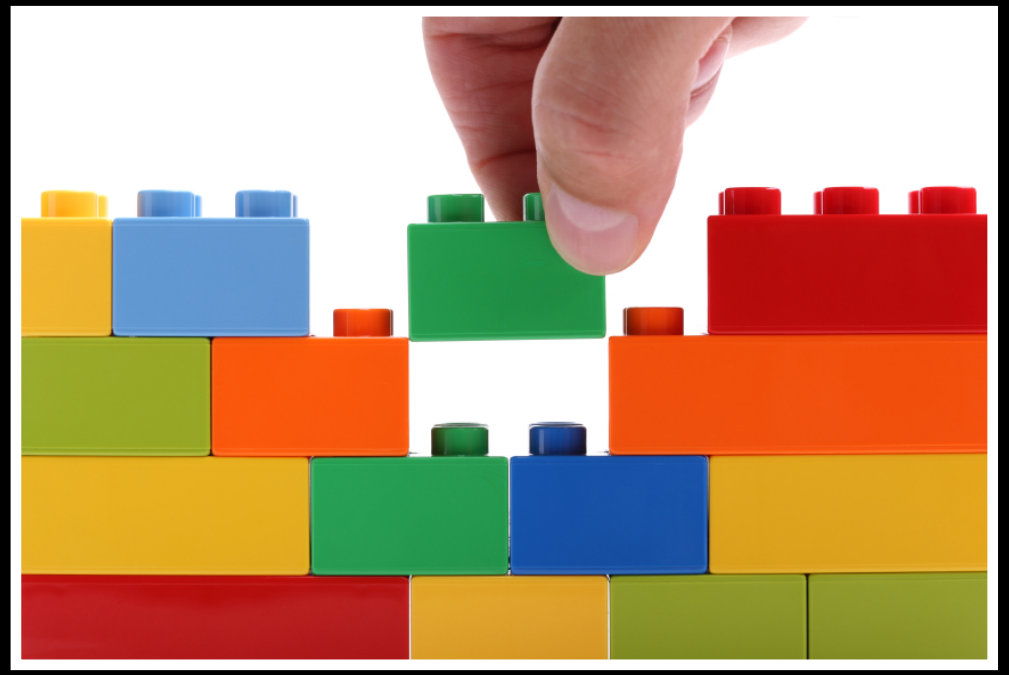
Splunk Is Only As Strong As Its Weakest Link

Having optimal infrastructure is a critical component for Splunk

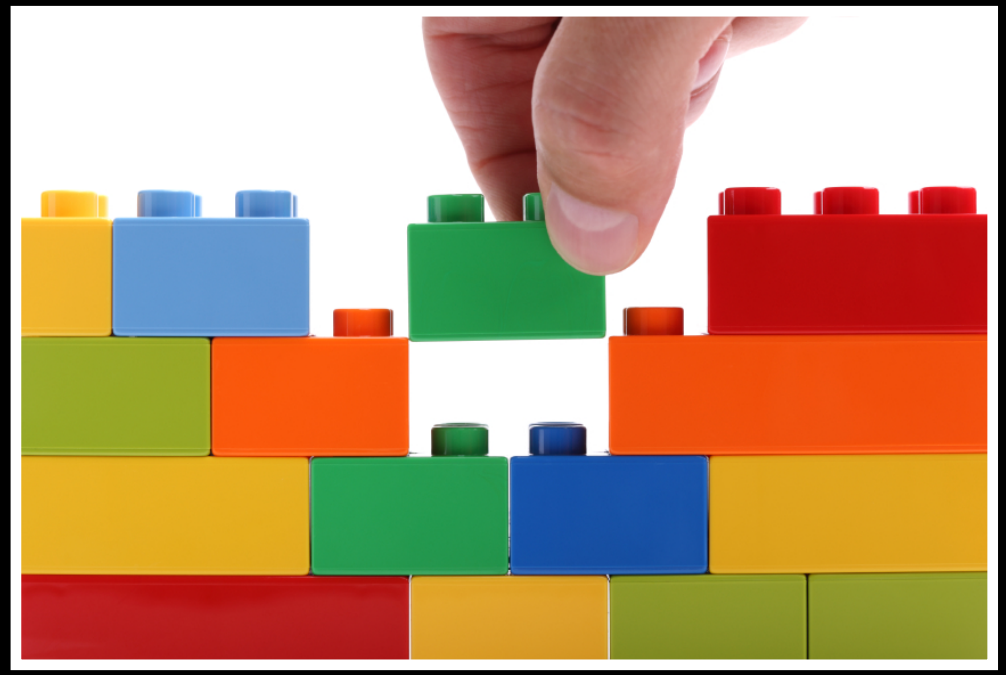
splunk> .conf2017

splunk> .conf2017

Examine different decision points and explore considerations



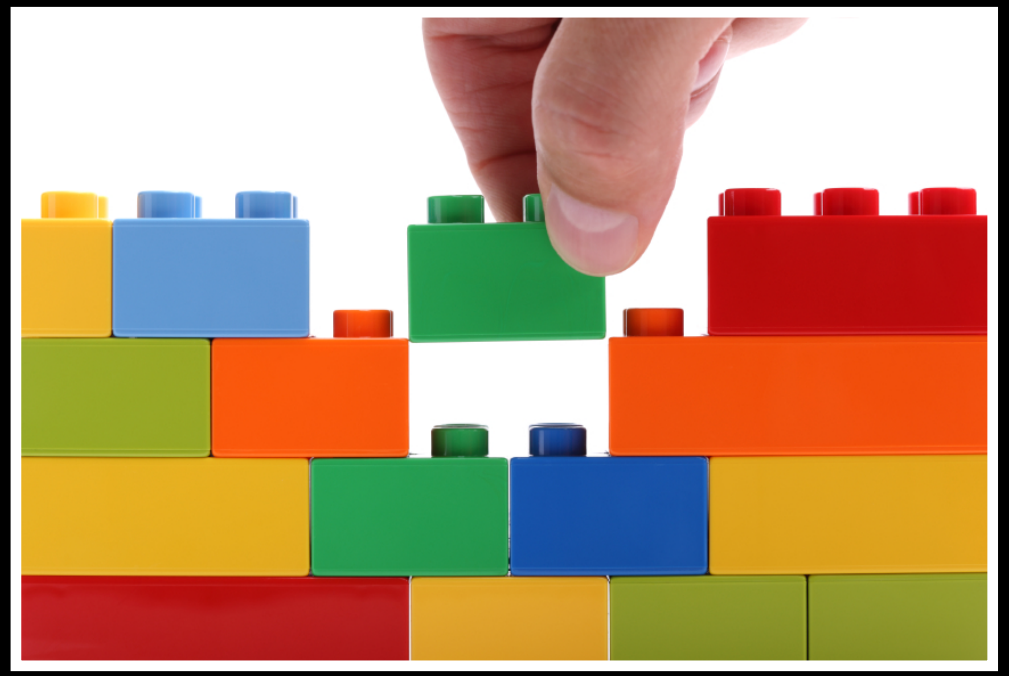
VS



VS

Build

Buy



Build

Have the talent and skills

Unique use case

Complexity is cheap

Need for massive scale

Reduce risk

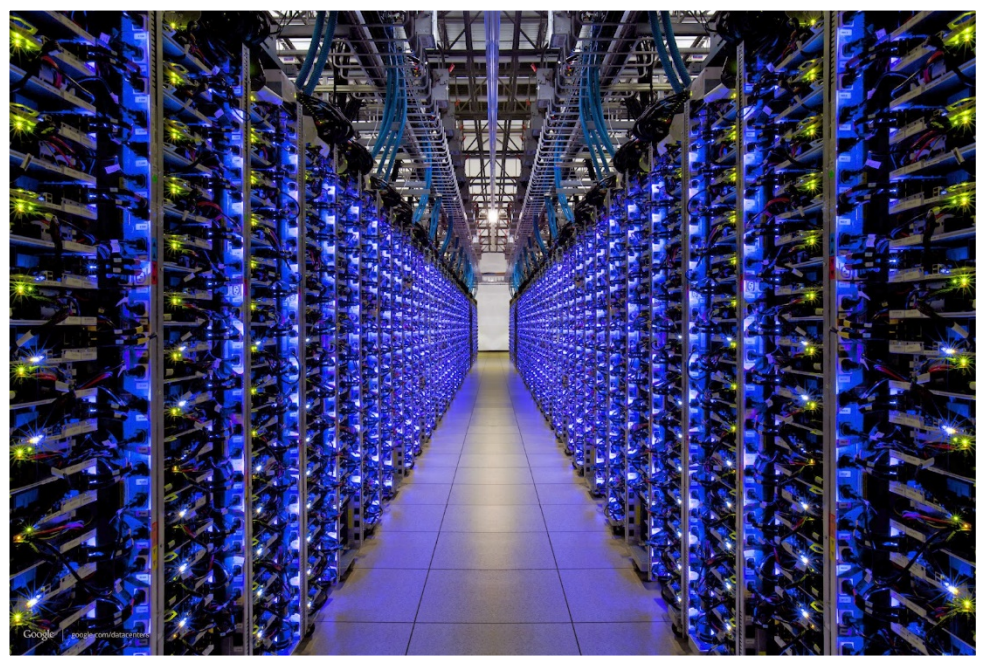
Time to insight (value)

Common use case

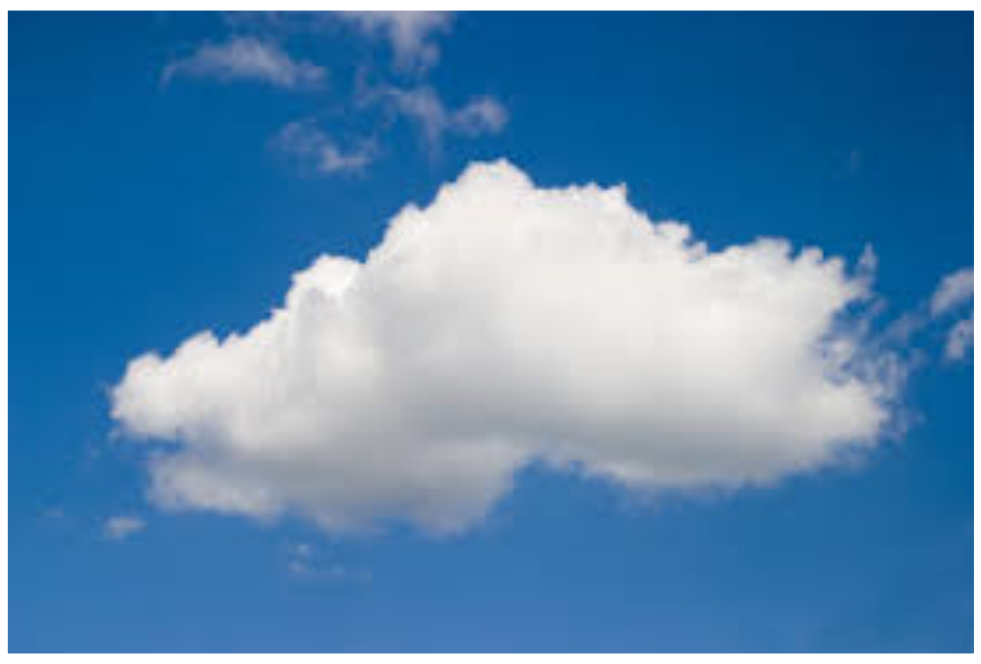
Talent

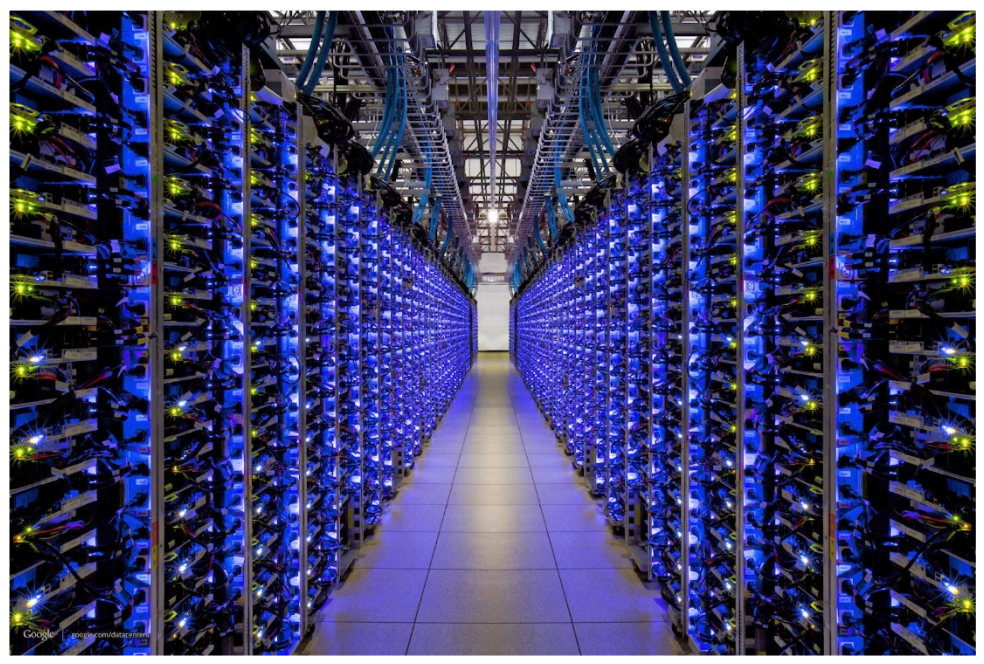
Willingness to pay to reduce complexity

Buy

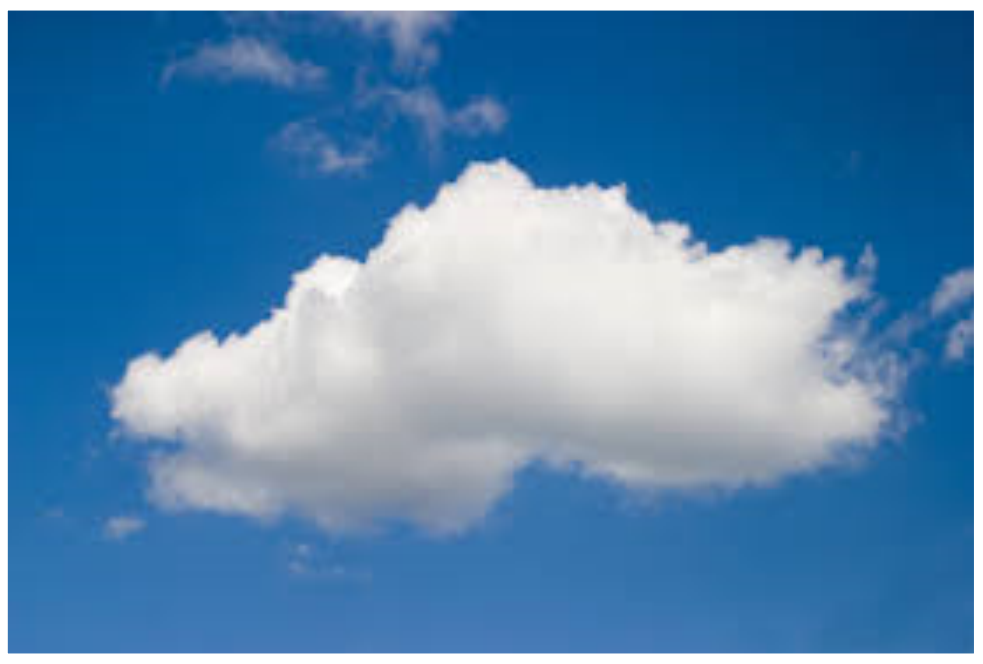


VS



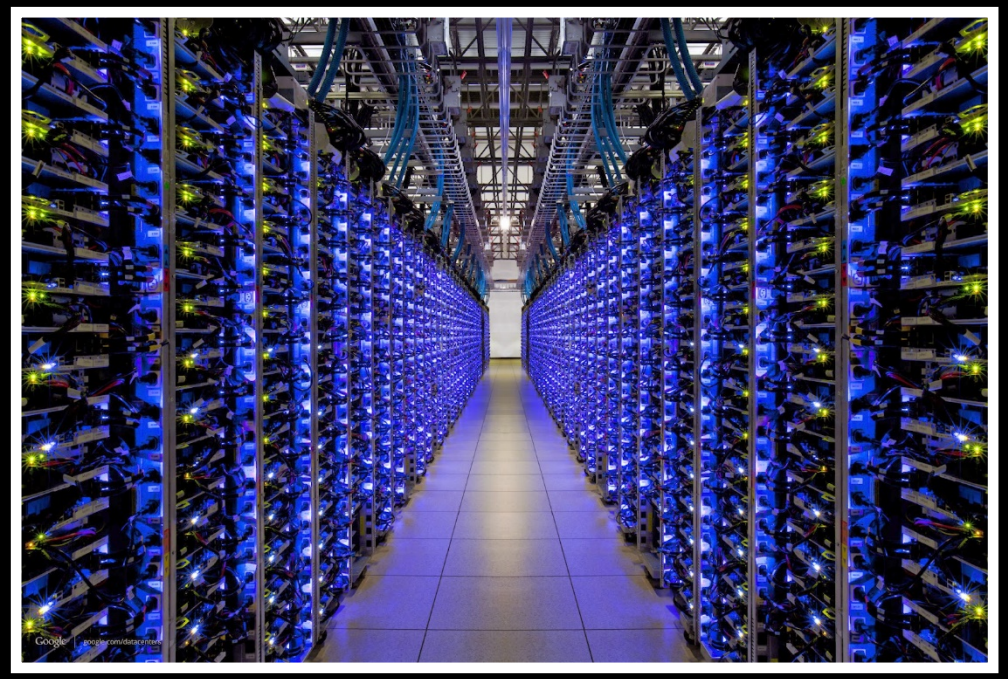


VS



On-Prem

Off-Prem



On-Prem

- Company strategy
- Regulatory/compliance needs
- Talent
- Data Growth
- Economics

Company strategy

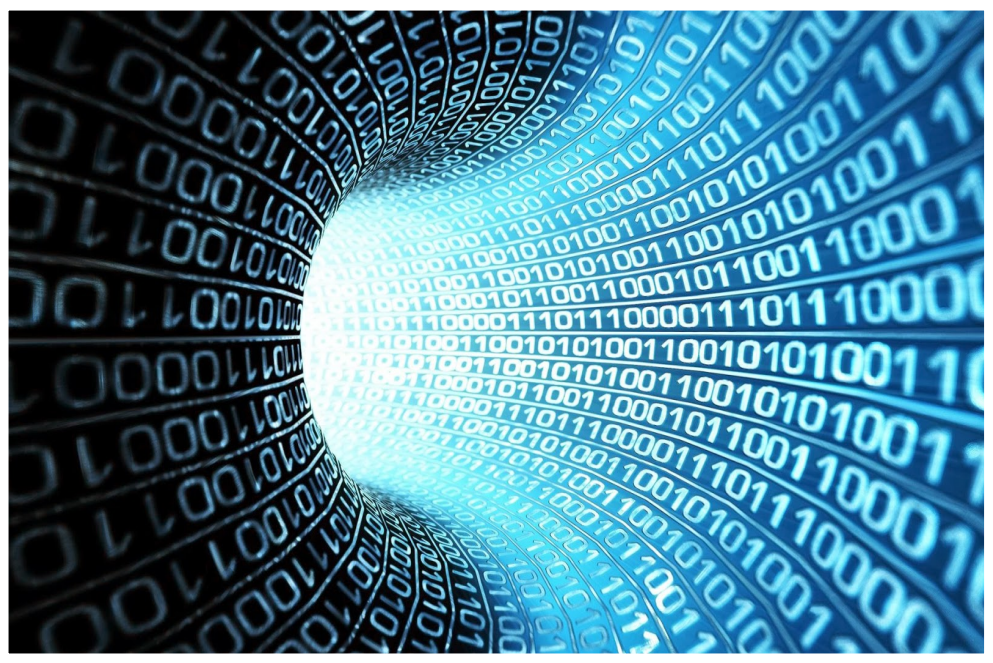
Regulatory/compliance needs

Talent

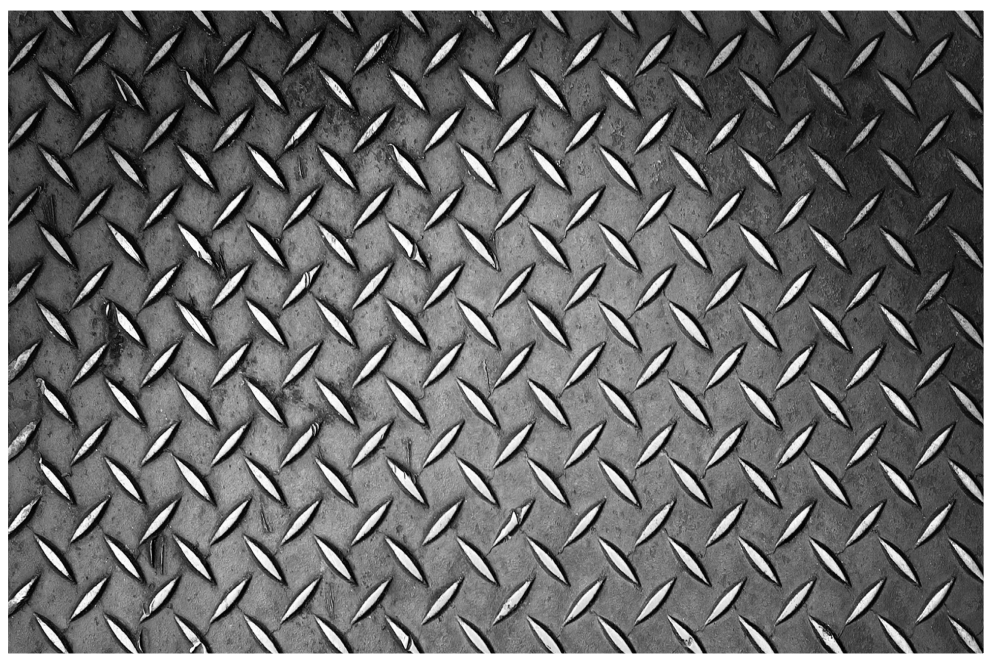
Data Growth

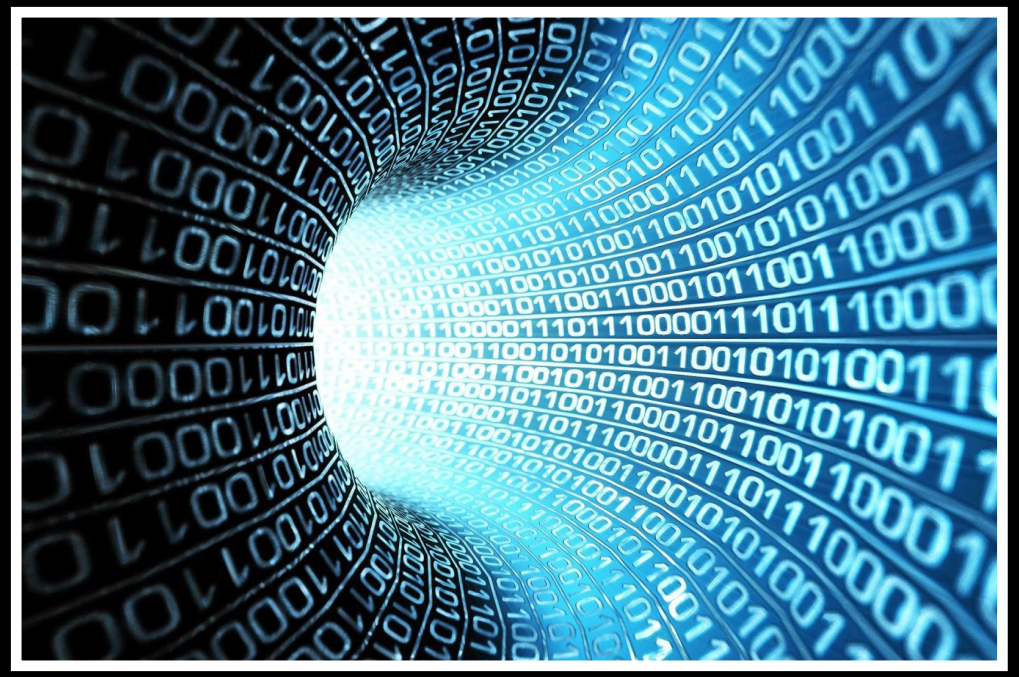
Economics

Off-Prem

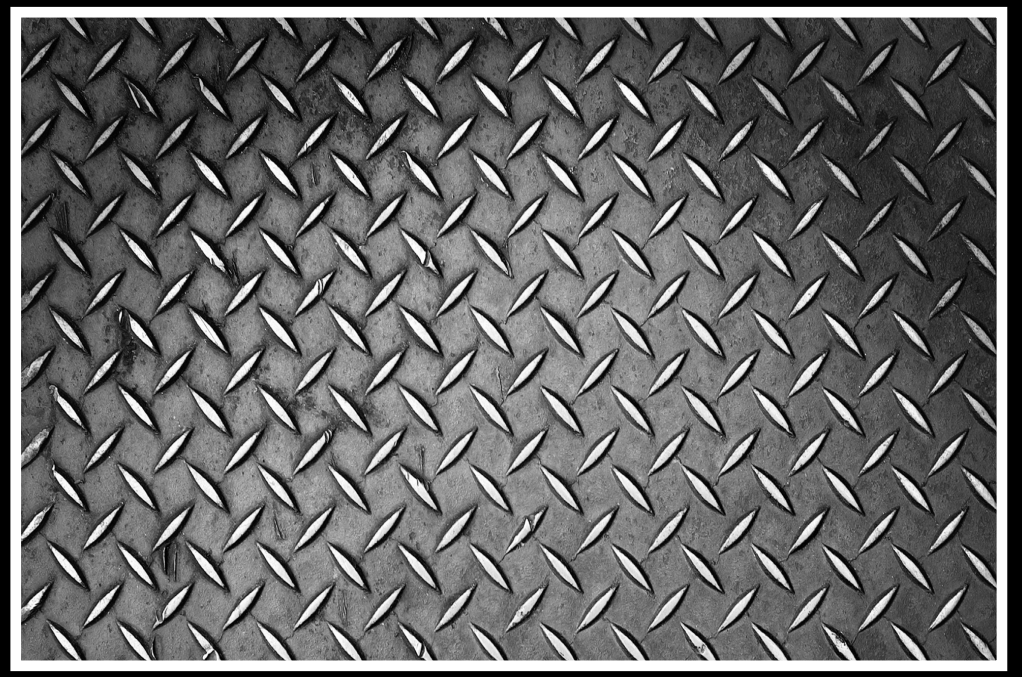


VS

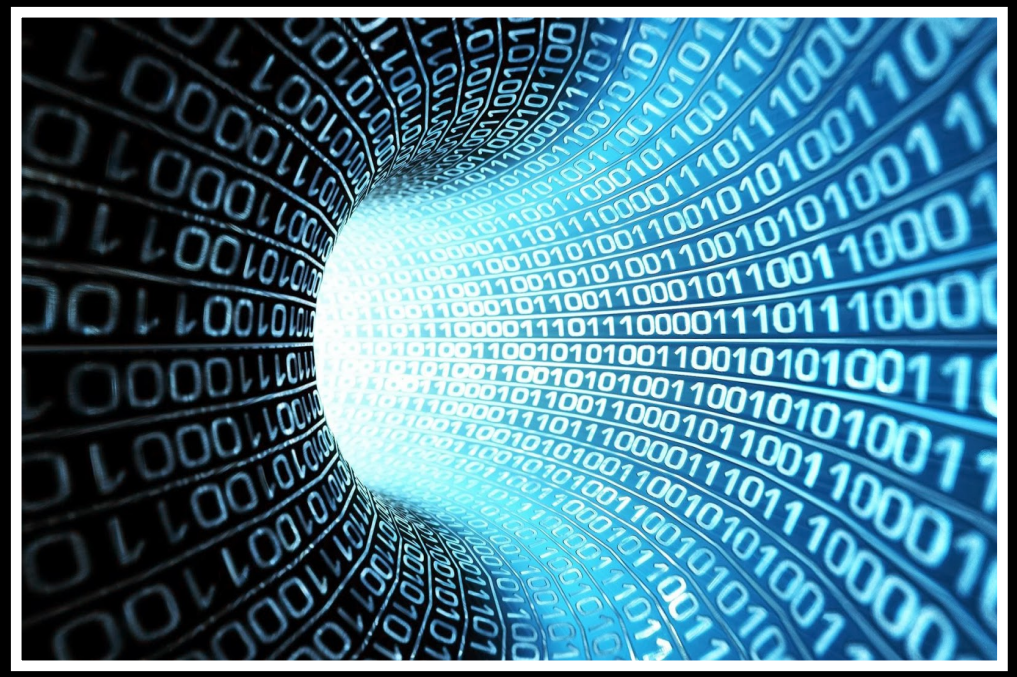




VS



Virtual **Physical**



Virtual

- Company strategy
- Skillset
- Virtualization overhead
- Dynamic infrastructure
- Efficiencies at scale
- Running multi-workloads

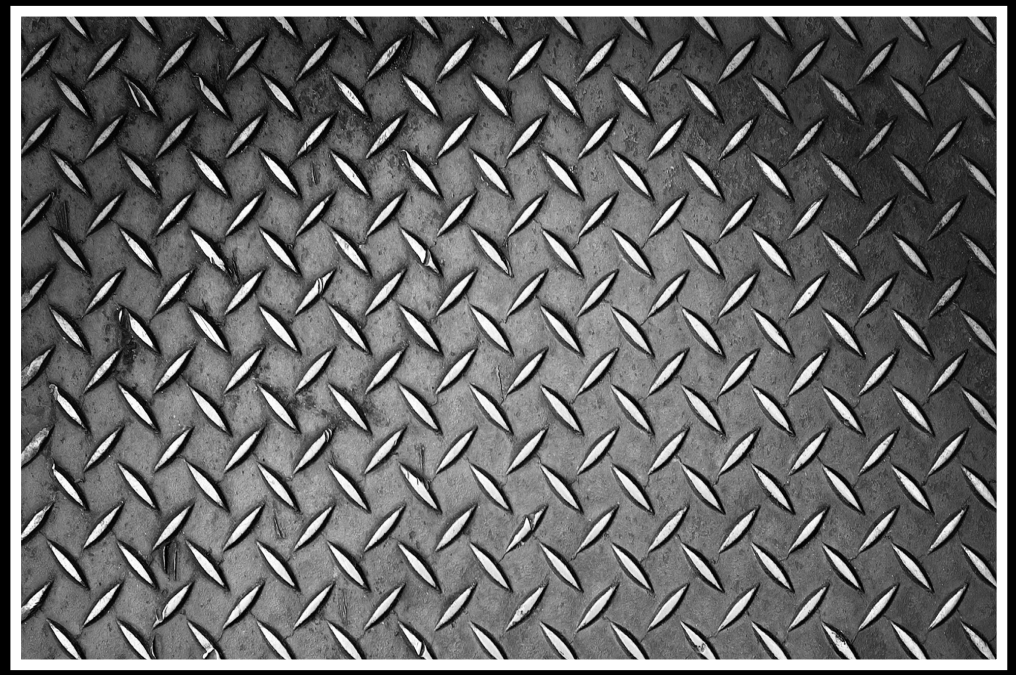
Company strategy

Optimized performance

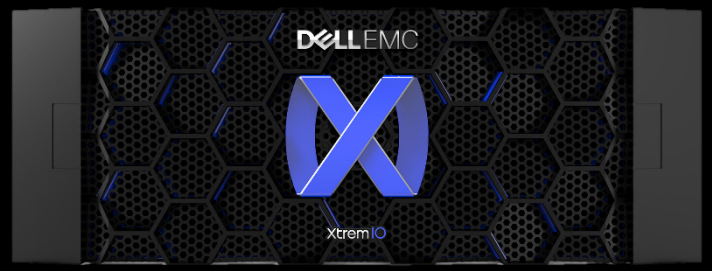
Only for Splunk

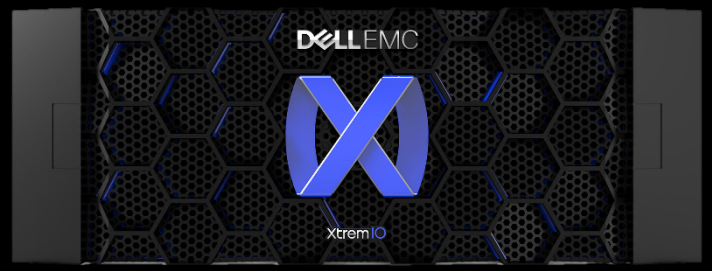
Rigidity at scale

Fixed infrastructure



Physical





DAS

SAN

SDS

Considerations For Choosing DAS/SAN/SDS

Capacity

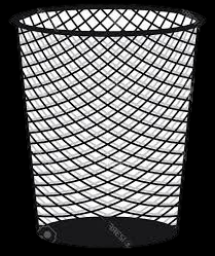
Scalability

Management

Data Services

Cost

Tiering With Splunk



OR

FROZEN

HOT – Newest buckets of data that are still open for write

WARM – Recent data but closed for writing (read only)

COLD – Oldest data, commonly on cheaper, slower storage

FROZEN – No longer searchable, commonly archived or deleted data

splunk> .conf2017

Tiering Recommendations

HOT **WARM**

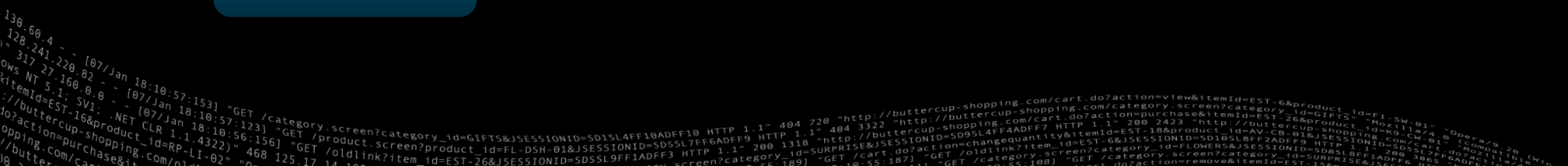
DAS, SAN or SDS
Flash
>1000 IOPS

COLD

Option to use Hot/Warm infrastructure or add NAS
HDD
800 IOPS

FROZEN

NAS or Object Storage
Data no longer able to be searched

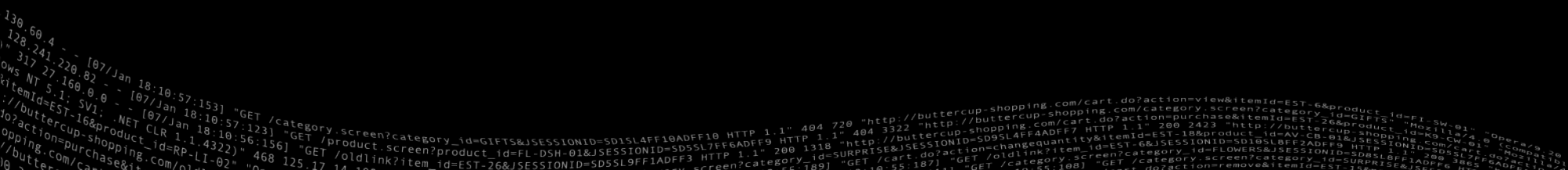


splunk> .conf2017

Choosing The Right Configurations For Indexers

Need to look to future when determining which configuration is right for you

Reference Host	Mid Range	High Performance
CPU = 12 cores RAM = 12GB	CPU = 24 cores RAM = 64GB	CPU = 48 cores RAM = 128GB



splunk> .conf2017

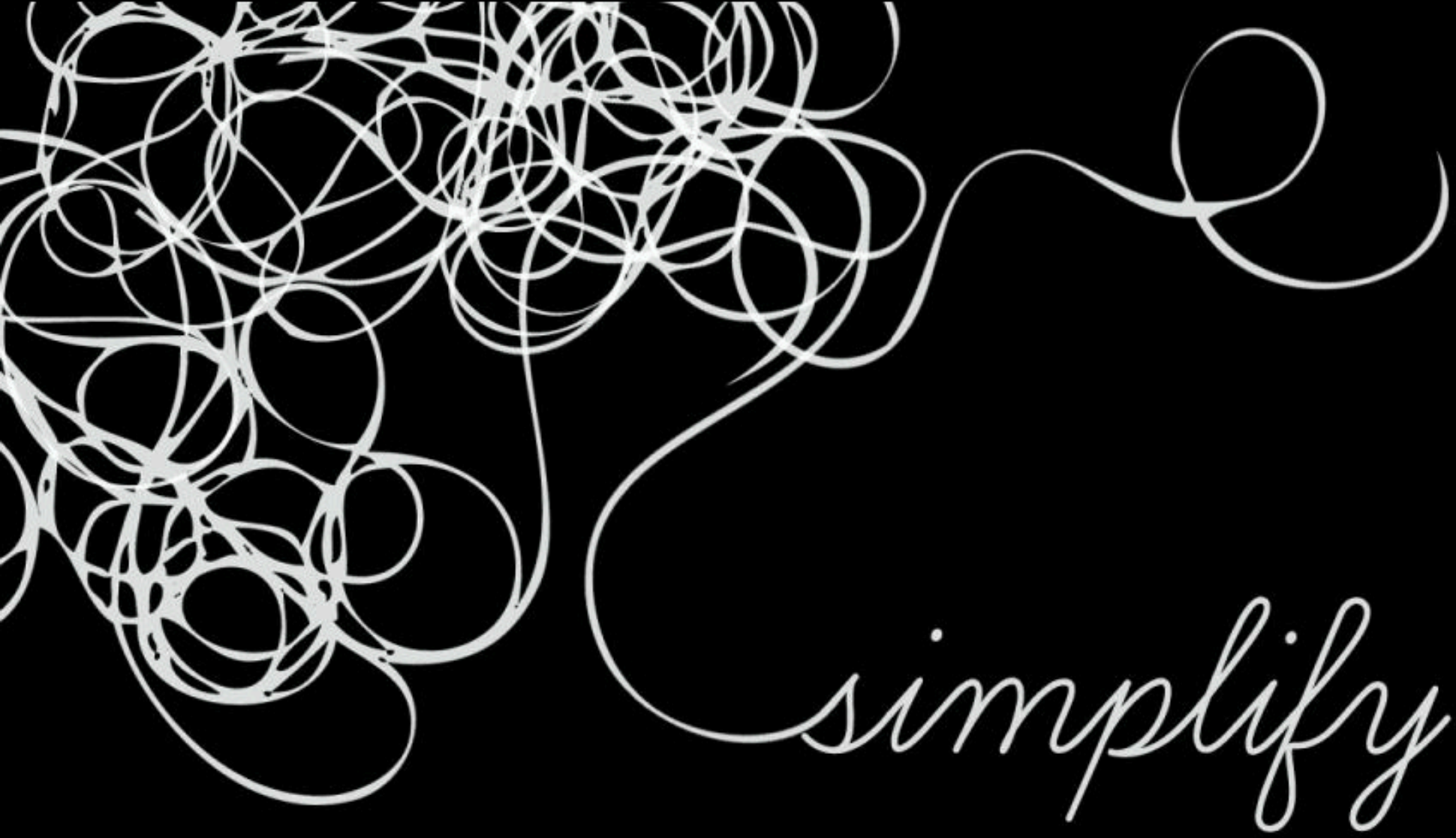
Choosing The Right Configurations For Indexers

Need to look to future when determining which configuration is right for you

Reference Host	Mid Range	High Performance
CPU = 12 cores RAM = 12GB	CPU = 24 cores RAM = 64GB	CPU = 48 cores RAM = 128GB

Ingestion **Apps** **Users** **Growth**

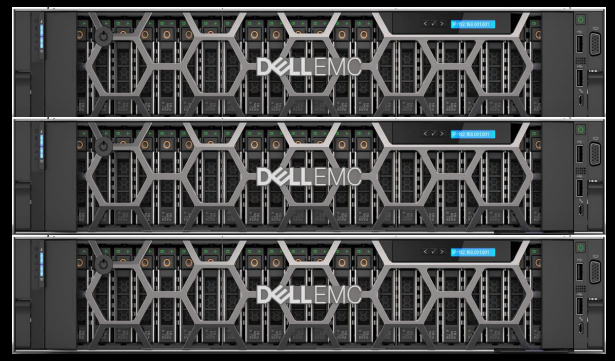
splunk> .conf2017



Dell EMC Ready Solutions For Splunk

Ready Bundle for Splunk

PowerEdge



DAS
SSD/HHD/Hybrid
Bare Metal or Virtual

Ready System for Splunk

VxRack Flex 1000

ScaleIO SDS
SSD/HHD/Hybrid
Bare Metal or Virtual

VxRail

VMware VSAN
SSD/HHD/Hybrid
Virtual

splunk> .conf2017

Ready Solutions For Splunk

Putting the pieces together for you

- Validated configurations
- Increase time to value
- Reduce deployment risks

splunk> .conf2017

Splunk Applications From Dell EMC

Extend the power of Splunk to Dell EMC Platforms

What are Splunk Apps?

Splunk applications and add-ons allow user to import data into Splunk from specific sources

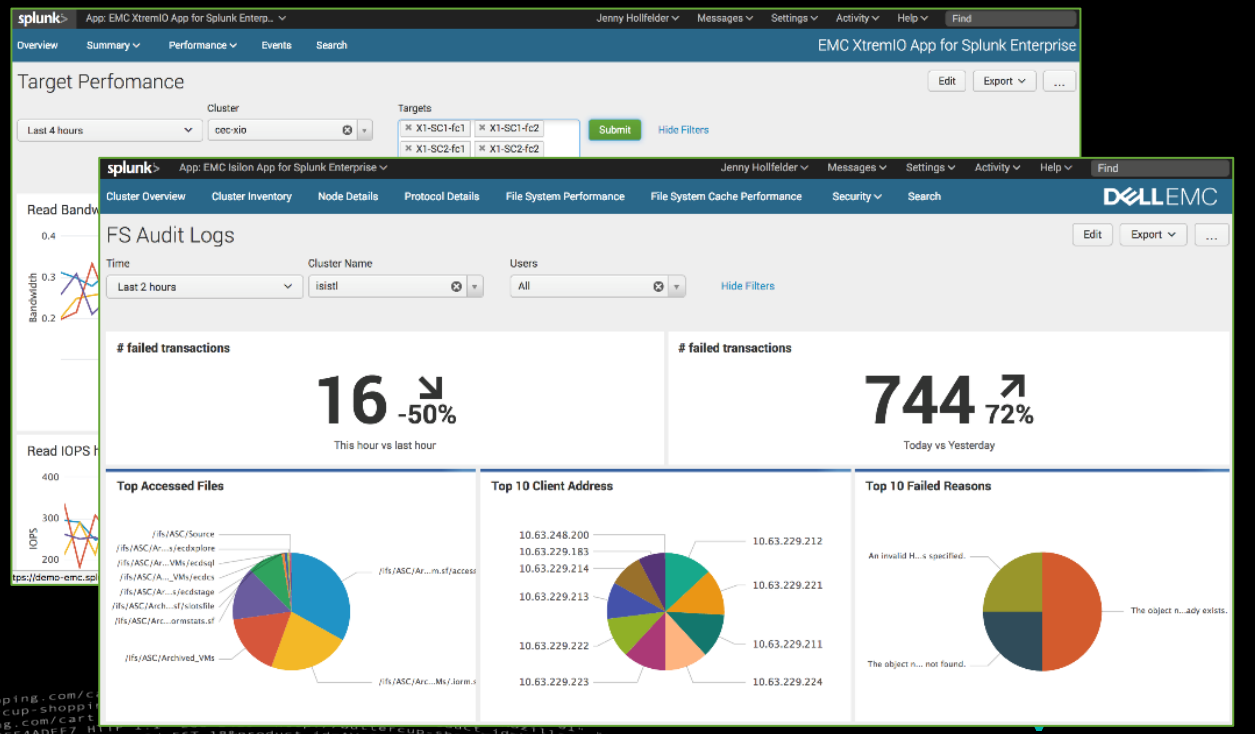
Splunk & its partners have created a rich community called SplunkBase that has 1000s+ applications

Why are Splunk Apps important?

Splunk apps and add-ons allow customers to incorporate new use cases and extend their Splunk environment. This leads to increased Splunk License needs as well as additional Hardware

Dell EMC has apps for the following:

- *VMAX*
- *XtremIO*
- *Isilon*
- *VNX*



Let Our Splunk Ninjas Help You!

- Trained by Splunk
- Splunk Architecture Experts
- Dell EMC Portfolio Experts
- Religious about Best Practices
- Available across the GLOBE!!!

Contact your local Dell EMC rep

splunk> .conf2017

Call To Action

1. **Stop by the Dell EMC Booth**

2. **If you are a Dell EMC customer, download the Dell EMC Apps**

3. **Check out the other Dell EMC sessions**
   - **Demystifying the Dark Arts - Wednesday 2:15 PM-3:00 PM**
   - **<PLACEHOLDER>**

splunk> .conf2017

DELL EMC

Thank You

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

splunk> .conf2017

intel