



Choosing The Right Infrastructure For Your Splunk Deployment

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Key Takeaways

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

Splunk Has Become A Business Critical Application



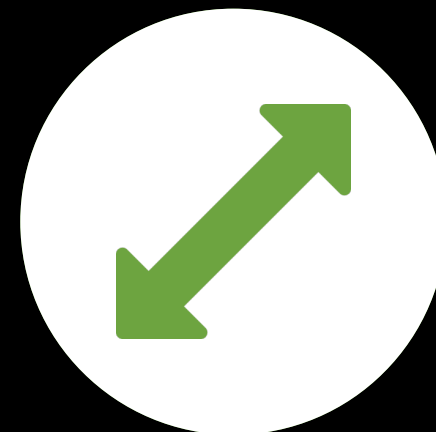
Performance



Growth



Reliability



Scale

130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD1SLAFF10ADFF10 HTTP/1.1" 404 720 "http://buttercup-shopping.com/category.screen?category_id=GIFTS" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_3; rv:53.0) Gecko/2010089 Firefox/53.0"

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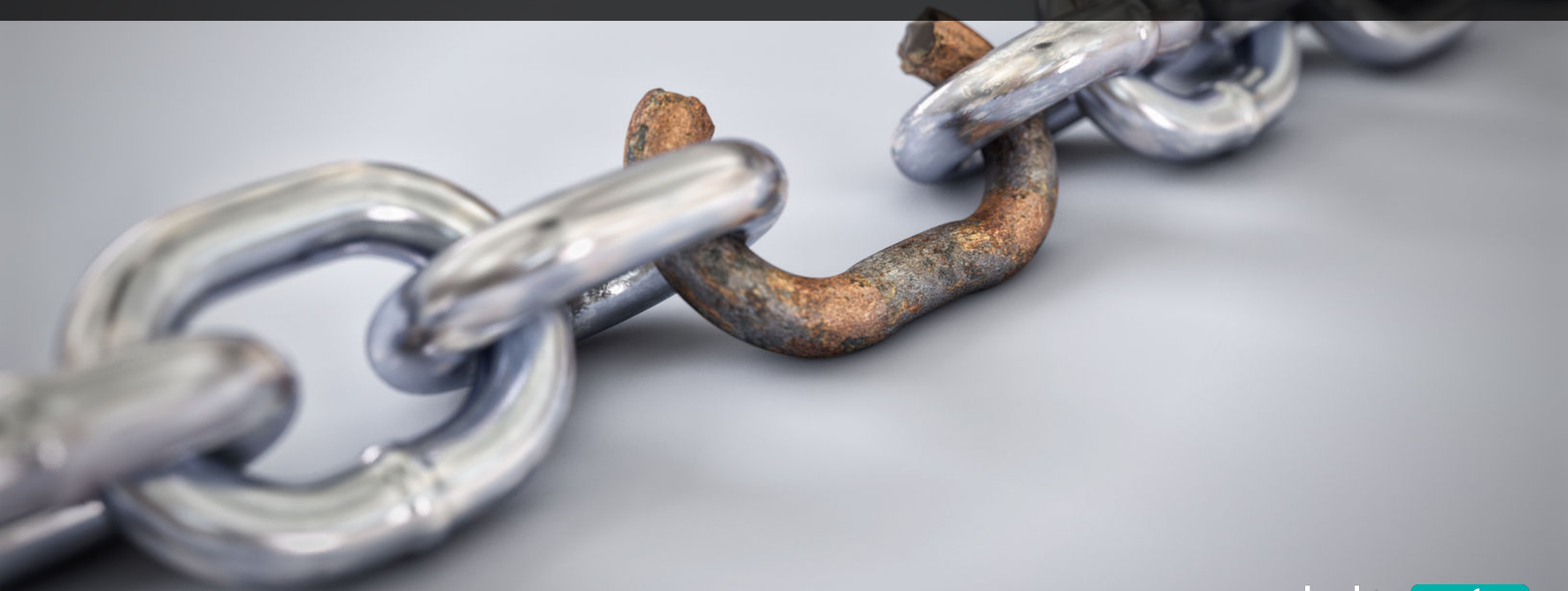
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Splunk Is Only As Strong As Its Weakest Link

Having optimal infrastructure is a critical component for Splunk





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VS



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Have the talent and skills

Unique use case

Complexity is cheap

Need for massive scale

Build



Reduce risk

Time to insight (value)

Common use case

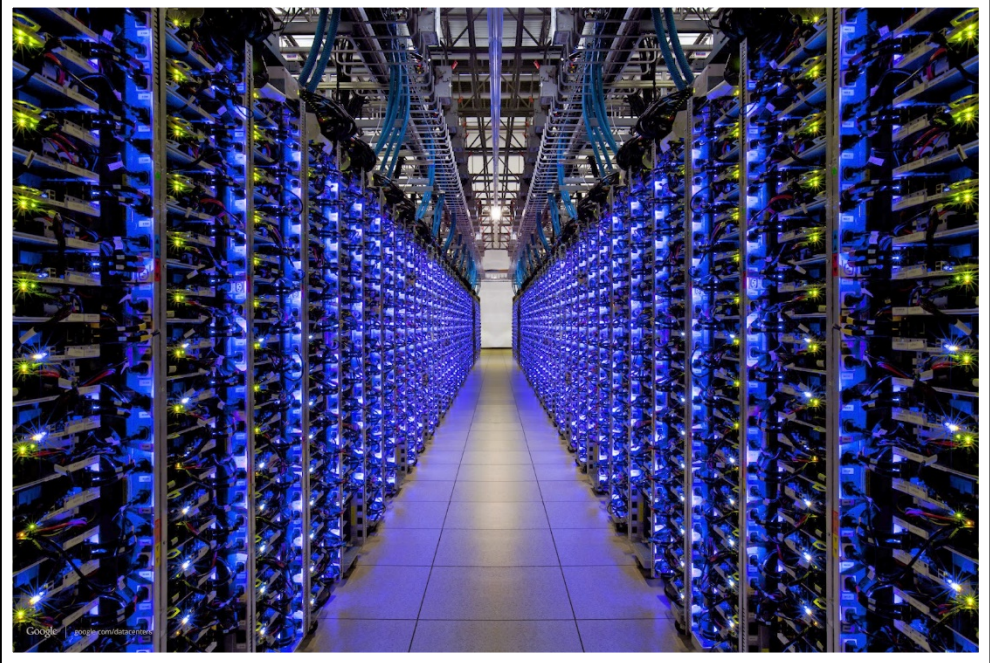
Talent

Willingness to pay to reduce complexity



Buy

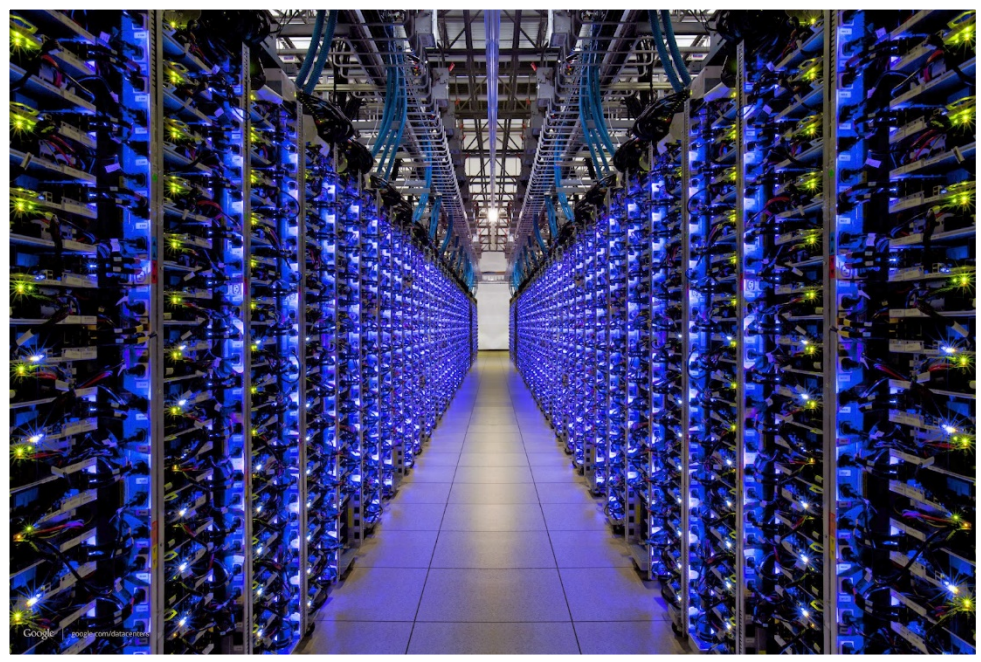
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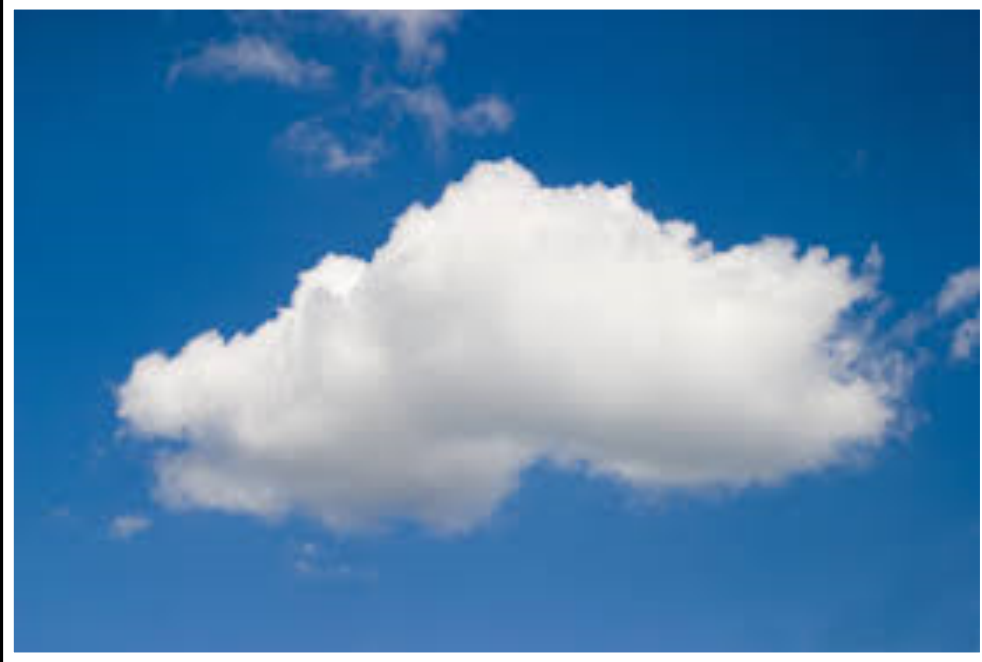
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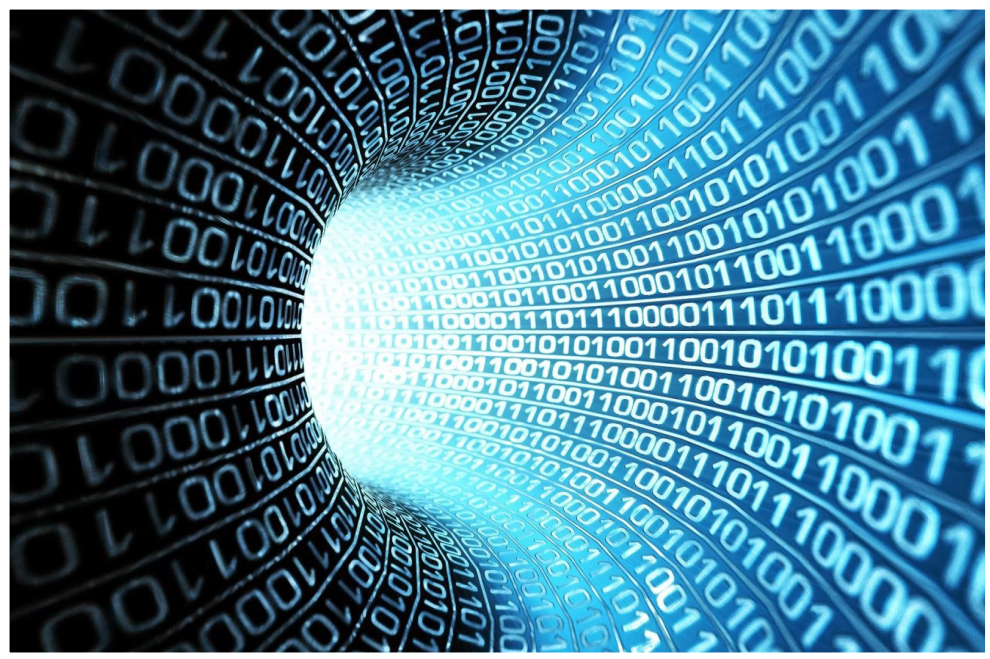
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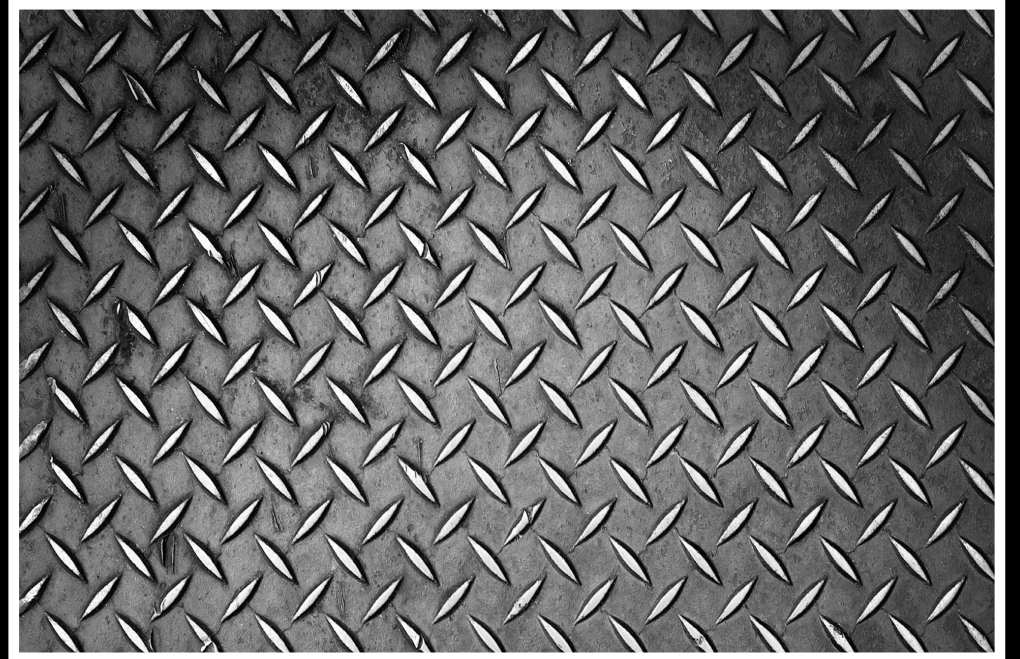
On-Prem

Off-Prem

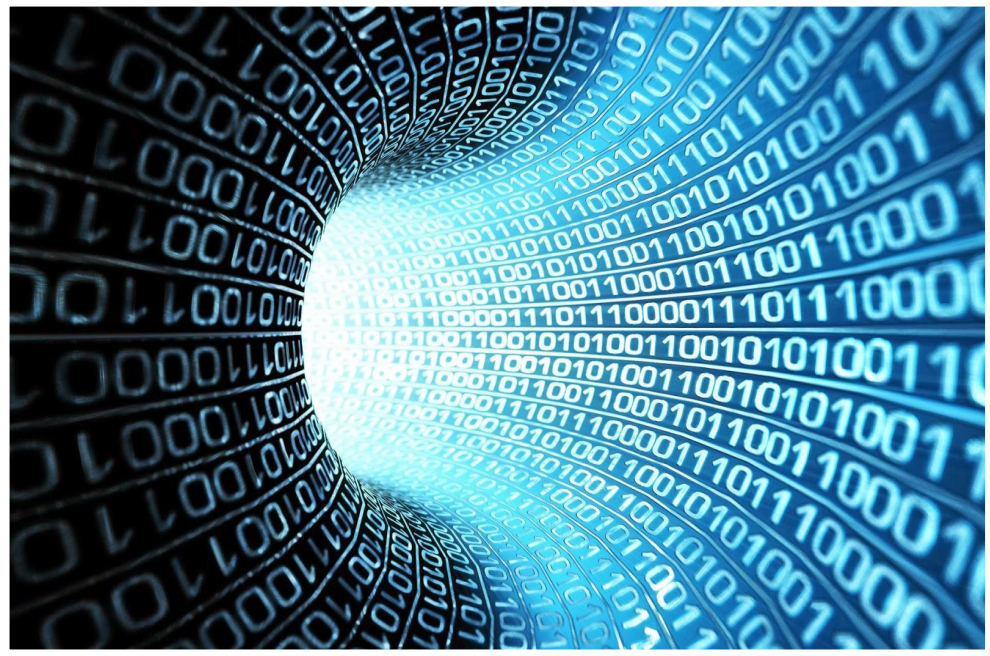
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VS

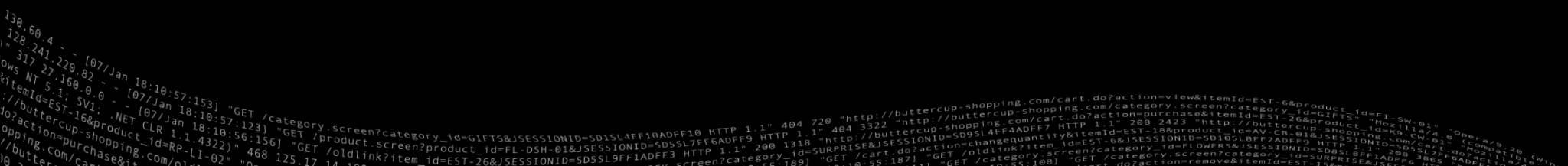


```
130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD1SLAFF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FL-SW-01" "Opera/9.80.2013.10 (Windows NT 6.0; WOW64; rv:31.0) like Gecko"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=SD5SL7FF6ADFF9 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-20&product_id=K9-CU-01" "Mozilla/5.0 (Windows NT 6.0; WOW64; rv:31.0) like Gecko"
317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1" 200 1316 "http://buttercup-shopping.com/changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=SD10SL9FF2ADFF9 HTTP 1.1" 200 2423 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1&JSESSIONID=SD5SL7FF6ADFF9" "Mozilla/5.0 (Windows NT 6.0; WOW64; rv:31.0) like Gecko"
130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD1SLAFF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FL-SW-01" "Opera/9.80.2013.10 (Windows NT 6.0; WOW64; rv:31.0) like Gecko"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=SD5SL7FF6ADFF9 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-20&product_id=K9-CU-01" "Mozilla/5.0 (Windows NT 6.0; WOW64; rv:31.0) like Gecko"
317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1" 200 1316 "http://buttercup-shopping.com/changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=SD10SL9FF2ADFF9 HTTP 1.1" 200 2423 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1&JSESSIONID=SD5SL7FF6ADFF9" "Mozilla/5.0 (Windows NT 6.0; WOW64; rv:31.0) like Gecko"
```

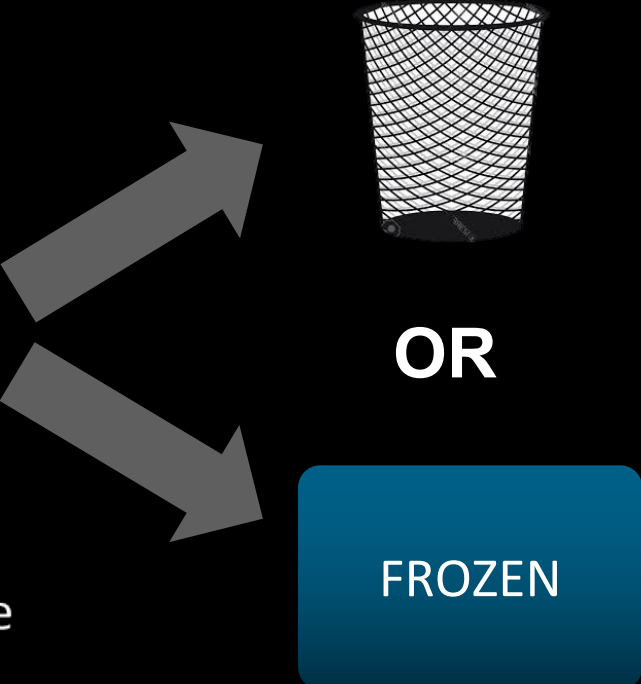



- Company strategy**
- Skillset**
- Virtualization overhead**
- Dynamic infrastructure**
- Efficiencies at scale**
- Running multi-workloads**

Virtual



Tiering With Splunk



- 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



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



Choosing The Right Configurations For Indexers

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

Reference Host

CPU = 12 cores
RAM = 12GB

Mid Range

CPU = 24 cores
RAM = 64GB

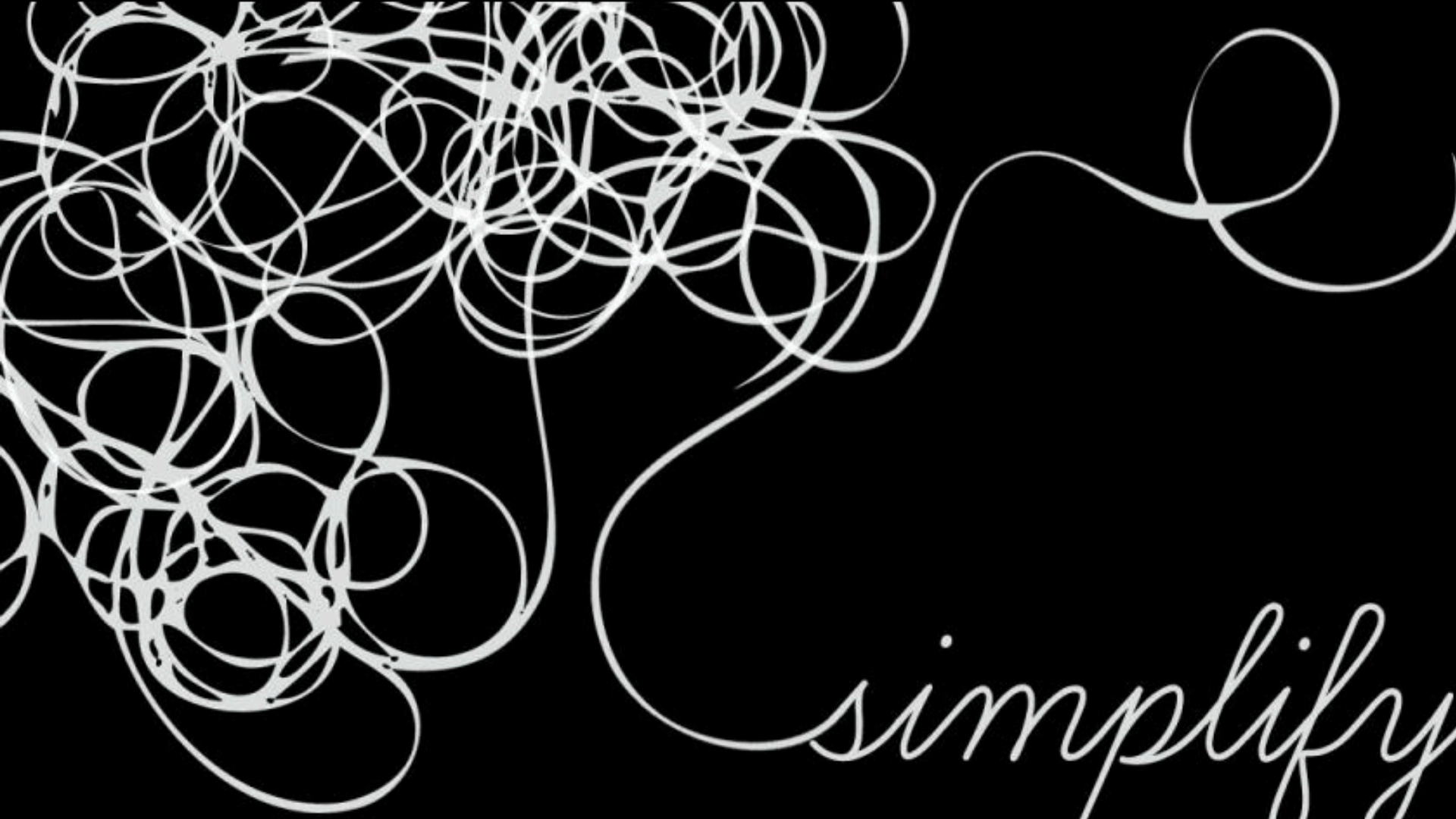
High Performance

CPU = 48 cores
RAM = 128GB

```

130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD1SLAFF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FL-SW-01" "Opera/9.80.20
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=SD5SL7FF6ADFF9 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/category.screen?category_id=GIFTS" "Mozilla/5.0 (Windows NT 6.0; rv:1.9.2.1) Gecko/20100101 Firefox/3.6.10"
317.27.160.0 - - [07/Jan 18:10:56:150] "GET /oldlink?item_id=EST-26&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1" 200 1316 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=SD10SL9FF1ADFF9 HTTP 1.1" 200 2423 "http://buttercup-shopping.com/category.screen?category_id=K9-CU-01" "Opera/9.80.20
/buttercup-shopping-16&product_id=RP-LI-02" 468 125.17.14 [oldlink?item_id=EST-26&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1] "GET /category.screen?category_id=FLOWERS&JSESSIONID=SD5SL7FF6ADFF9 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-11&product_id=FL-SW-01" "Opera/9.80.20
opping.com/purchase&is.com/oldlink?item_id=EST-26&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1" 200 1316 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS&JSESSIONID=SD5SL7FF6ADFF9 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-11&product_id=FL-SW-01" "Opera/9.80.20
/buttercup-shopping-16&product_id=RP-LI-02" 468 125.17.14 [oldlink?item_id=EST-26&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1] "GET /category.screen?category_id=FLOWERS&JSESSIONID=SD5SL7FF6ADFF9 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-11&product_id=FL-SW-01" "Opera/9.80.20

```

simplify

```
130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=SD1SLAFF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FL-SW-01" "Opera/9.80.20  
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=SD5SL7FF6ADFF9 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-20&product_id=K9-CU-01" "Comptel/1.1 (win  
ows NT 5.1; SVI; .NET CLR 1.1.4322)" 468 125.17.14 [link?item_id=EST-26&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1" 200 1316 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=SD10SL9FF2ADFF3 HTTP 1.1" 200 2423 "http://buttercup-shopping.com/cart.do?action=11 (win  
itemId=EST-16&product_id=RP-LI-02)" "Opera/9.80.20  
buttercup-shopping.com/purchase screen?category_id=FLOWERS&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1 (win  
buttercup-shopping.com/oldlink?item_id=EST-189) "GET /category.screen?category_id=SURPRISE&JSESSIONID=SD5SL9FF1ADFF3 HTTP 1.1" 200 1316 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1 (win
```


Ready Solutions For Splunk

Putting the pieces together for you

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



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

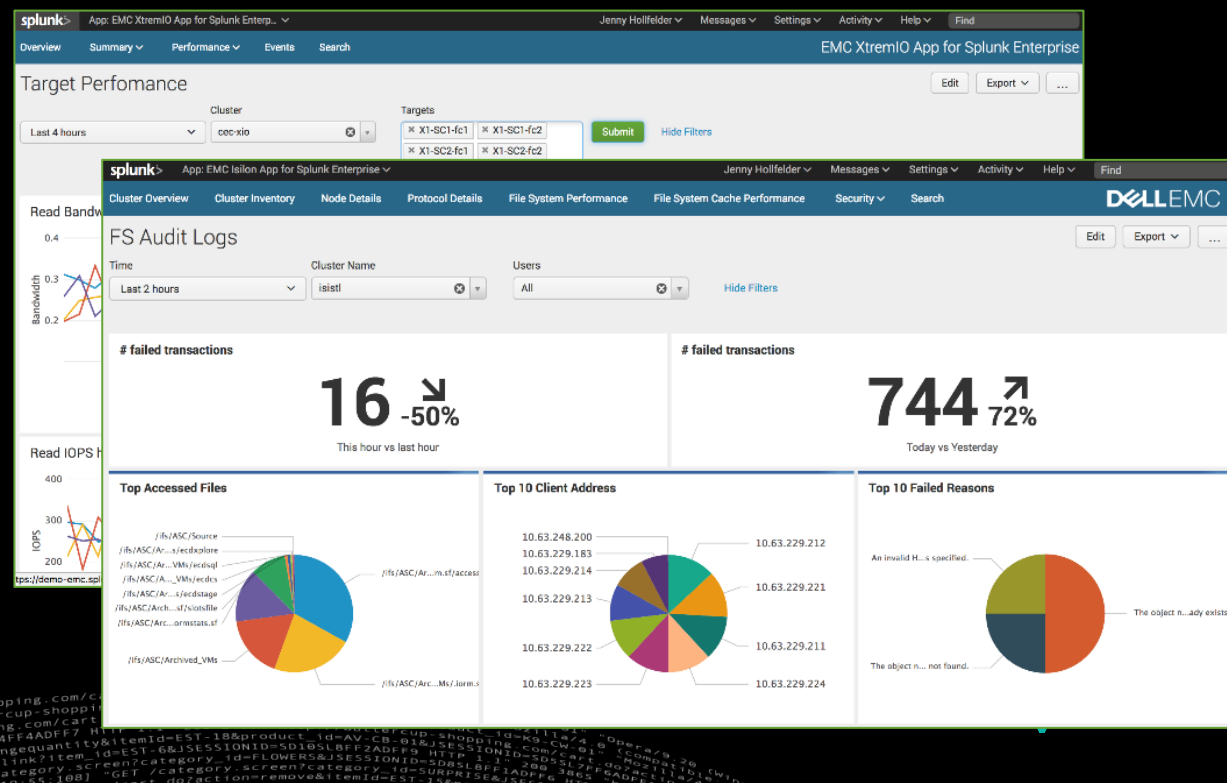
Splunk & its partners have created a rich community called [SplunkBase](#) that has 1000s+ applications

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



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>**



Thank You

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

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