Choosing The Right Infrastructure For Your Splunk Deployment

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Who Is Brett Roberts?

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- Data Analytics GTM & Alliances Tech Lead
- 4 Years in Army
- MS International Management and MBA
- Work with Mike McNeil Org.
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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
Examine different decision points and explore considerations.
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
On-Prem VS Off-Prem
On-Prem

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

Off-Prem
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
Considerations For Choosing DAS/SAN/SDS

- Capacity
- Scalability
- Management
- Data Services
- Cost
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**
- DAS, SAN or SDS
- Flash
- >1000 IOPS

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

**COLD**
- NAS or Object Storage
- Data no longer able to be searched

**FROZEN**

### Choosing The Right Configurations For Indexers

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

<table>
<thead>
<tr>
<th>Reference Host</th>
<th>Mid Range</th>
<th>High Performance</th>
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Ingestion  Apps  Users  Growth
Dell EMC Ready Solutions For Splunk

**Ready Bundle for Splunk**

- PowerEdge

- DAS
- SSD/HHD/Hybrid
- Bare Metal or Virtual

**Ready System for Splunk**

- VxRail
- VMware VSAN

- ScaleIO SDS
- SSD/HHD/Hybrid
- Bare Metal or Virtual

- VxRack Flex 1000
- VxRail

- SSD/HHD/Hybrid
- Virtual
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
Let Our Splunk Ninjas Help You!

Trained by Splunk

Splunk Architecture Experts

Dell EMC Portfolio Experts

Religious about Best Practices

Available across the GLOBE!!!

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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

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