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Remote Monitoring and Control for Industrial Assets

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Engineering und Software-Entwicklung

Operational Divisions

- Rail Operations
- Automotive Production
- Manufacturing Industry

Range Of Services

- Software-Engineering
- Testing & Verification
- Assessment-Services

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Remote Monitoring and Control for Industrial Assets

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Challenge 1

Gain realtime monitoring / visibility of whole production process

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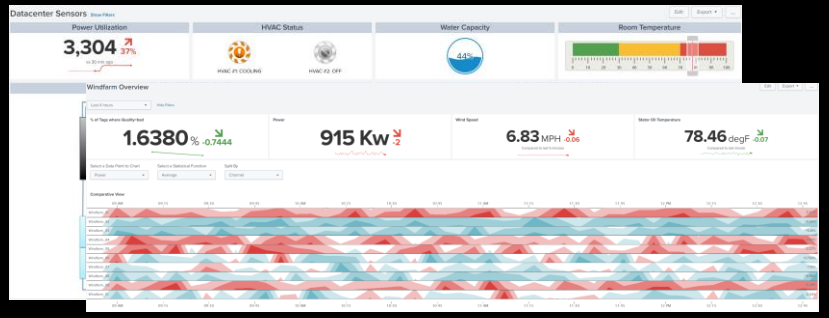
Sugarmill →



← Monitor

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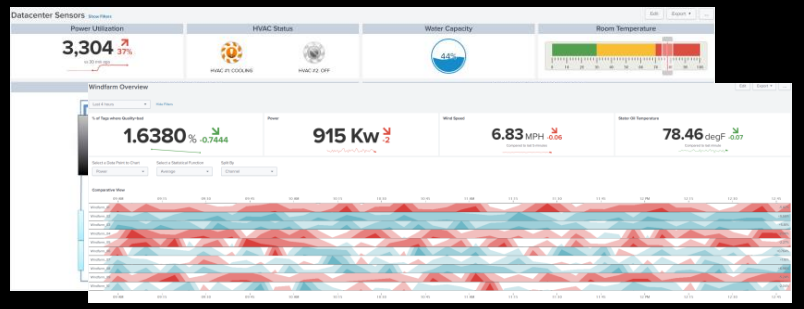
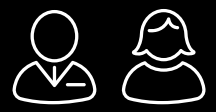
Challenge 2

Leverage the Machine Learning Toolkit to adjust Sugarmill for better efficiency

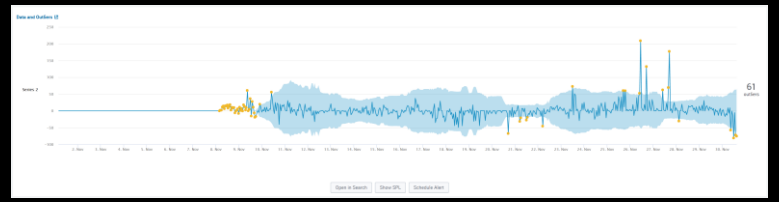
Sugarmill

splunk>enterprise





Monitor / Analyze Results
and manual adjustment



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Isn’t there a way to automate the adjustments???

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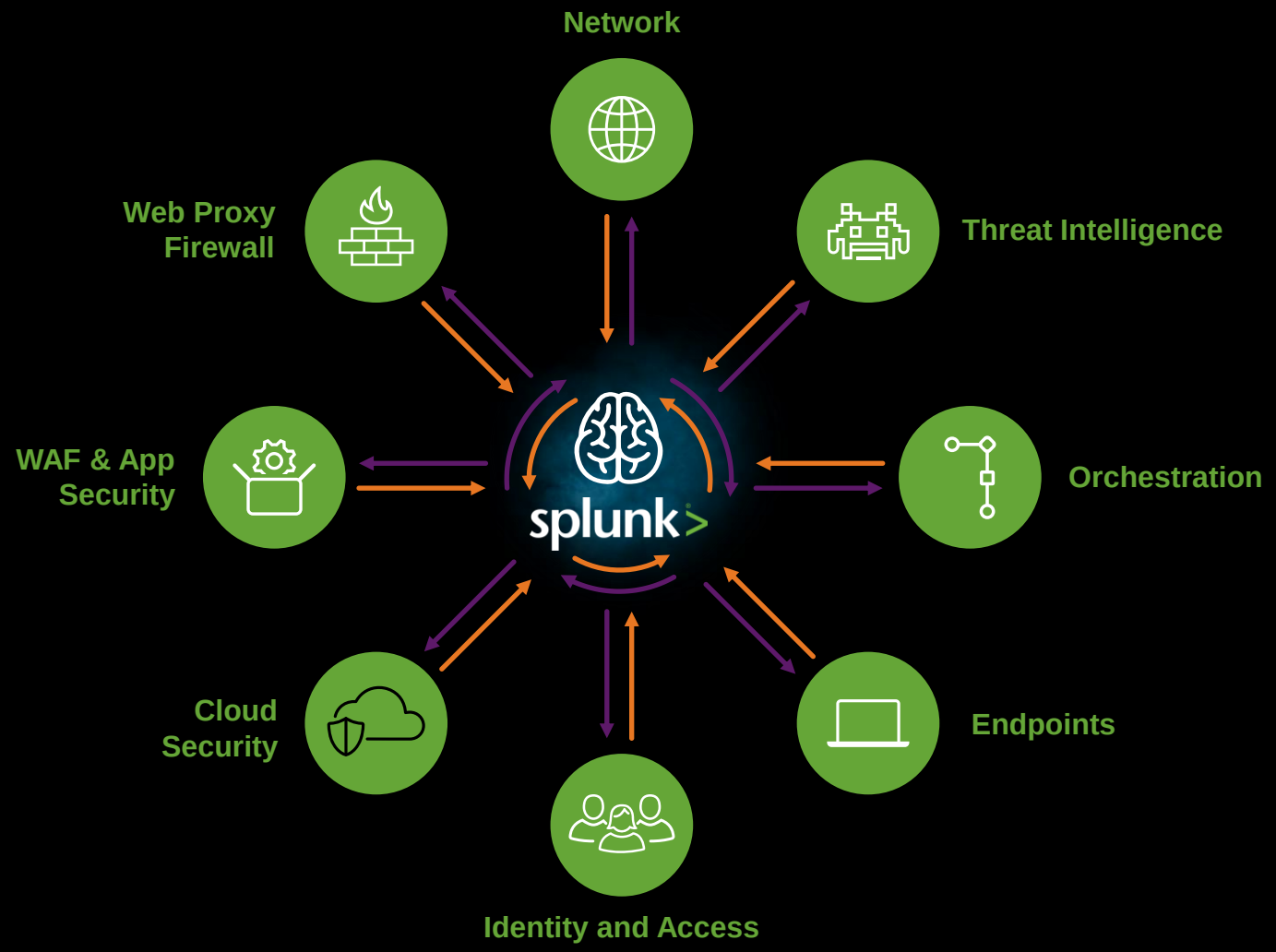
Adaptive Response Framework



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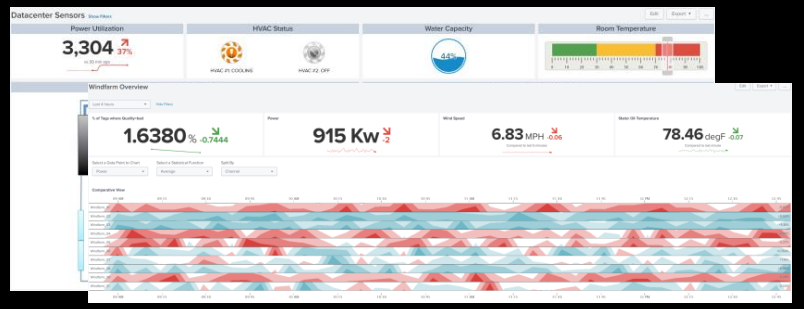
Challenge 3

Let Splunk adjust KPI's by using the Adaptive Response Framework

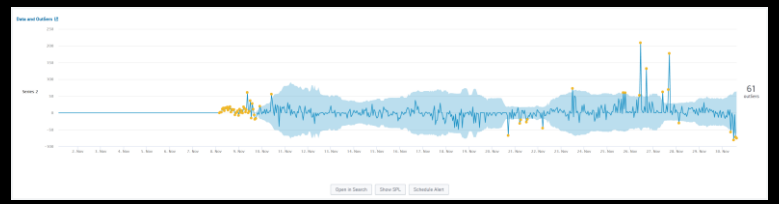
Sugarmill

splunk>enterprise



Monitor

Adaptive Response



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Demo

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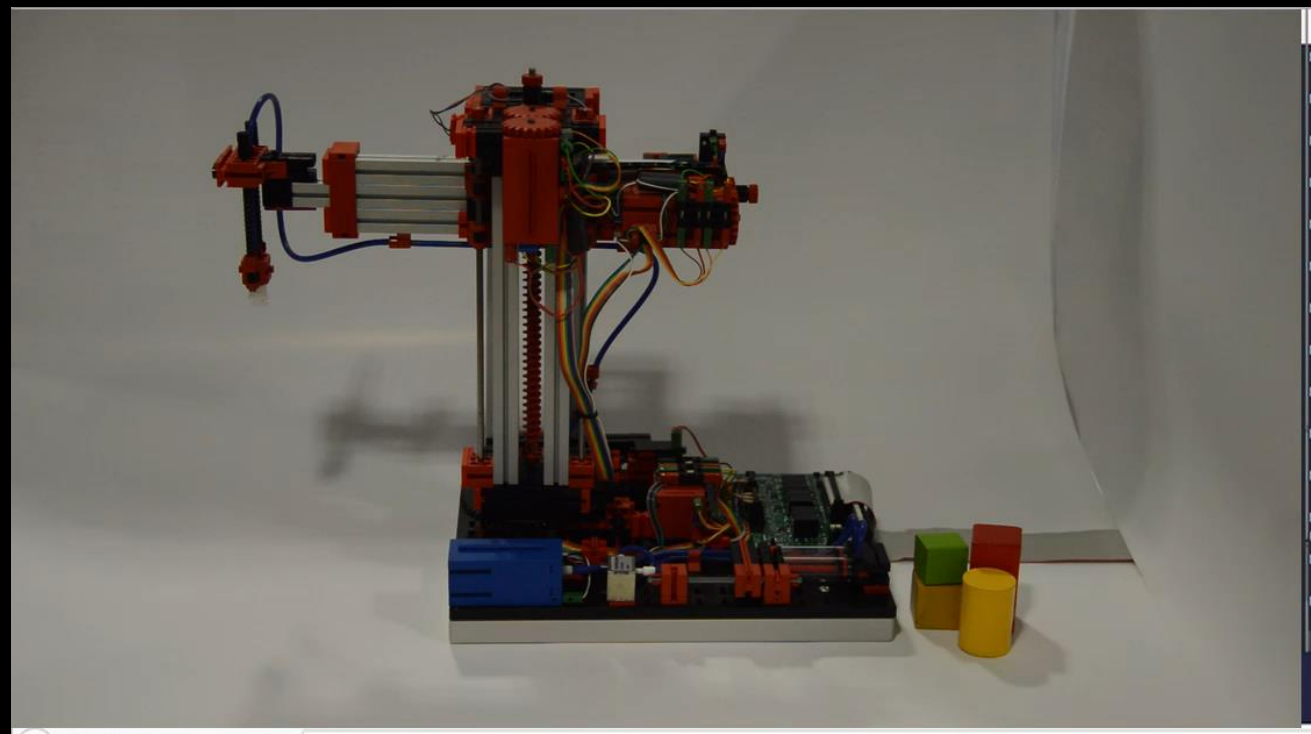

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Splunk.conf2018

Edit Export ...

Vacuum

Last 24 hours | A | B | C | Z | Submit | Hide Filters

X-Axes	Y-Axes	Z-Axes
0 X	0 Y	0 Z

Ventile	Compressor	Process
0	0	Z

Raw Data

i	Event
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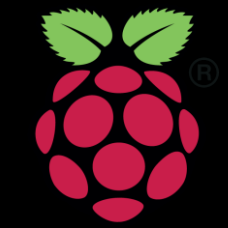
Demo Architecture



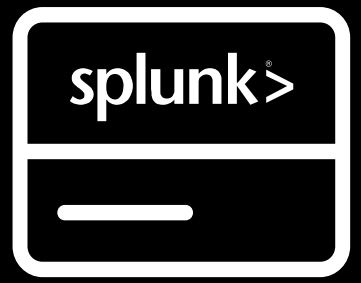
Raspberry Pi

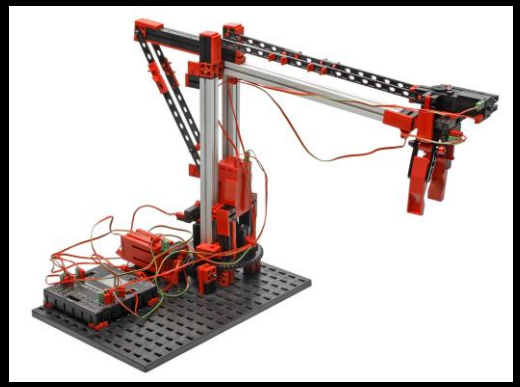
Send data / receive commands

MQTT

Send data

Trigger command





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What could come next?

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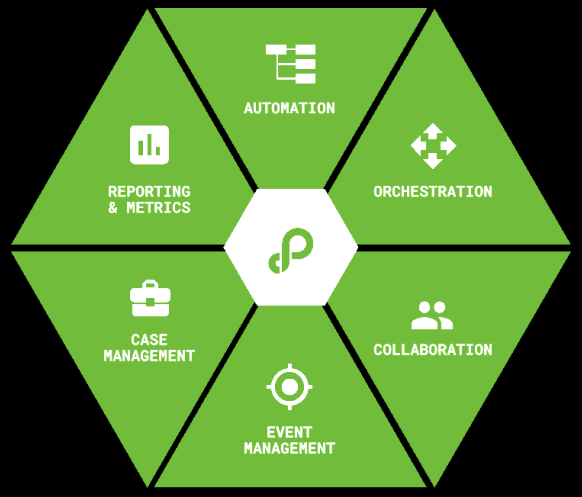
Phantom (Security) Operations Platform



Integrate your team, processes, and tools together

- Work smarter by automating repetitive tasks allowing analysts to focus on more mission-critical tasks.
- Respond faster and reduce dwell times with automated detection, investigation, and response.
- Strengthen defenses by integrating existing security infrastructure together so that each part is an active participant.

3rd Party Apps & Add-ons (700+)

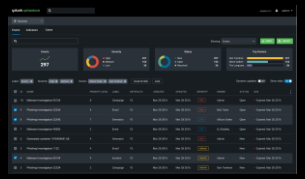
Splunk Security Apps & Add-ons

- Security Essentials
- Network data
- PCI Compliance
- RDBMS (any) data
- Windows host data
- App for AWS
- ES Content Update
- Windows Infrastructure
- Google Cloud
- ML Toolkit
- Exchange data
- Microsoft Cloud

Premium Solutions

Enterprise Security

User Behavior Analytics



Phantom

splunk> Platform for Operational Intelligence

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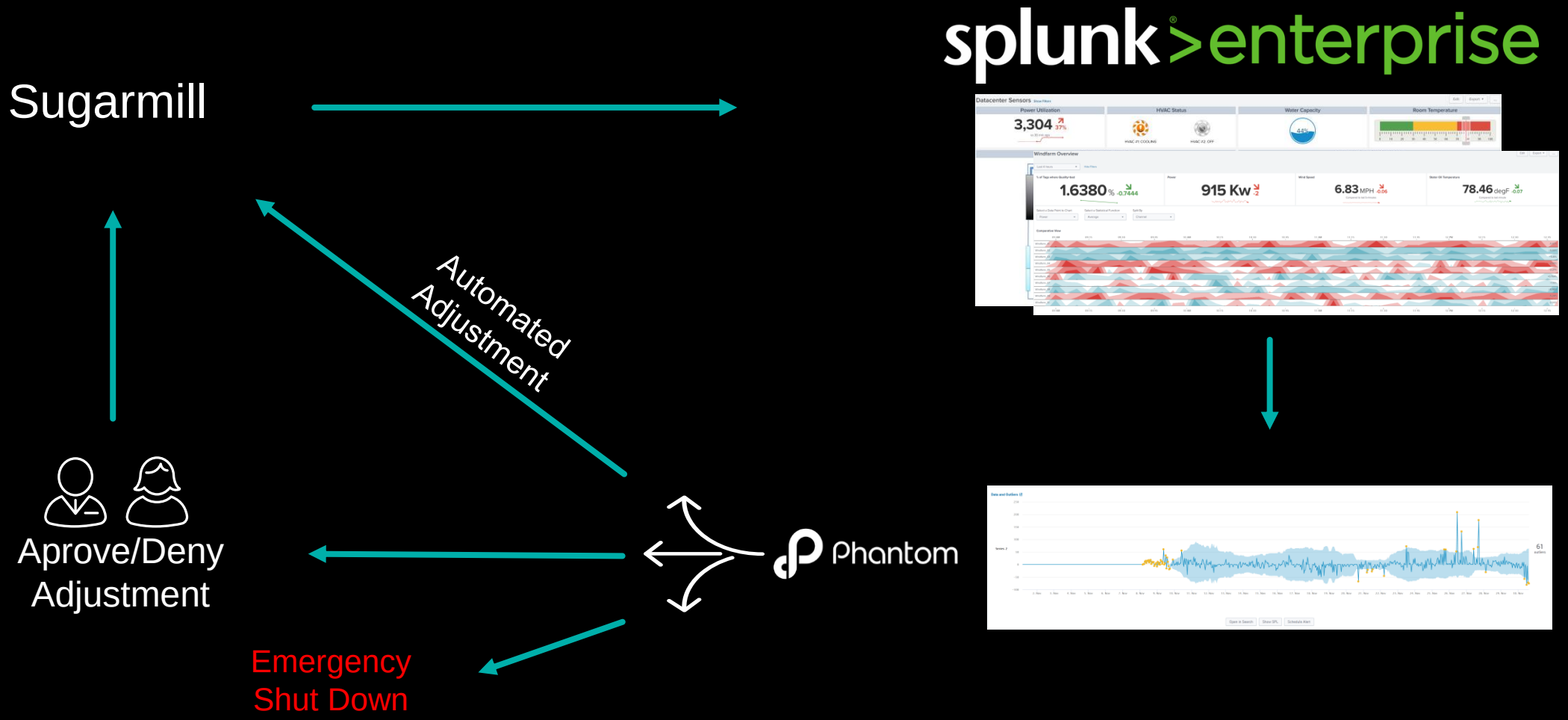
Challenge 4

Use Phantom Playbooks for diverse use cases



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Key Takeaways

Building Smart Factories

1. Think cross silo!
2. Leverage existing functionalities!
3. Let your assets speak!

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Q&A

Kai-Ping Seidenschnur | Staff Sales Engineer

Daniel Pal | Senior Data Analyst

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Thank You

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