Legacy SIEM to Splunk, how to Conquer Migration and Not Die Trying

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How the Hell Did We Get Here?

I’m done. I’m replacing this SIEM!!!
Most Common Reasons for Replacement!!!

- **Splunk’s a great product, why not!!!**

- **Other worthy reasons 😊:**
  - Limited Security Data Type
  - Inability to Effectively Ingest Data
  - Slow Investigations
  - Instability and Scalability
  - End-of-Life or Uncertain Roadmap
  - Closed Ecosystem
  - Limited to On-Premises
Introductions and Agenda

Who are these guys, anyway?
Welcome!

Risi Avila
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Security Consultant, Splunk
▶ 3 years Splunk
▶ Former SIEM Consultant / ArcSight Admin, Major Health Insurance Company
▶ Leads SIEM Migration / Replacement Engagements for Splunk

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▶ 3 Years Splunk
▶ Security Architect
▶ Enterprise Architecture
▶ Leads BHPs (Big Harry Programs)
▶ Created Use Case Workshop and SIEM Replacement Programs for Splunk
Agenda
What will we be talking about today?

SIEM Replacement Methodology
Splunk PS Best Practices

DataSources & Data Onboarding
Parsers / Connectors / TA's

Third Party Integrations
Smart? Great! But do you play well with others?

Use Cases
These drive Migrations ;)

Architecture
Measure twice, cut once

You Got This !!!
Things you can do today, to get “ready” for a SIEM Replacement
SIEM Migration Methodology

Splunk PS Best Practices – based on real world experience
Things You Should Know About Legacy SIEM Replacement, and Splunk PS Best Practices

- SIEM Replacements to Splunk Enterprise Security can be complex, but if the following things are taken into account, you won’t lose your job...shirt over it:

- Use Cases matter:
  - Audit & Prioritize Use Cases
  - Planned Response ... Do Something!

- Know your data / datasources
  - Identify datasources & owners
  - Audit datasources
  - Identify enrichment requirements

- Current / Future State Integrations

- Research & Preparation is key

- Assets & Identities

- Partner with Splunk + PS
Use Cases

These drive replacements … use cases, Use Cases, USE CASES!!!
What is a Use Case?

- Document describing a single detection activity.
  - What is the condition to detect?
  - What is the event data required?
  - What enrichment is required to scope down events?
  - What enrichment will reduce noise (false positives)?
  - Point to the response plan

- What are your Current Use Cases?
  - Which ones provide value?
  - Which ones don’t?
What is a Response Plan?

- Document describing a single response activity
  - For a response what event data is required to triage
  - What actions should be taken
  - Escalation communication and do we need to order pizza
  - Can we reduce the cost of pizza by providing better data for response decisions?
The first step in embarking on a SIEM Replacement initiative is

- first identifying and prioritizing high value use cases, response plans and compliancy reports:
  - Splunk PS has a 1-to-2 week SIEM replacement workshop where we come in and help customers:
    - Identify / develop high-fidelity use cases slated for migration / development
    - Datasources, and enrichment identified via use-case prioritization process
    - Plan the solution architecture
  - We typically see a 30% - 60% reduction in use-cases selected for migration
    Generally due to:
    - Old and/or Stale Rules
    - House-Keeping Rules no longer needed
    - Rule consolidation due to advanced Splunk Query Language

So no, You don’t have to migrate ALL your old funky rules !!!
How Use Cases Affect SIEM Replacements?

Next step in embarking on a SIEM Replacement initiative is

- Quantifying the # of use case / compliancy reports to be migrated and developed in the new Splunk ES environment - 1yr, 3yrs, 5yrs planning:
  - 1 Search/Report = compute resource utilized

- Quantifying the # of concurrent users will be using the SIEM on a daily basis:
  Generally based on SIEM usage:
  - Security Operations Center (SOC)
  - Security Engineering Team
  - Security Officer(s)
  - Audit Team

- Assets & Identities – Can’t do without it how will you collect from your environment
Datasources & Data Onboarding

Parsers / Connectors / TA's (Technology Addon')
How do You Migrate Datasources to Splunk?

- Use Case Analysis determines in-scope datasources
- Why you don’t need to migrate your historical data from Legacy SIEM

Data Source Onboarding via:

- **Splunk Log Forwarding:**
  - Universal Forwarder (UF) Deployed along side existing Parsers /Connectors
  - Syslog Aggregation
    - UF deployed on syslog aggregator to read and ship logs into Splunk
- Modern HTTP Event Collection
- Database Tables (DBX)
- Much more.
- Never forget Splunk Stream

- **TA’s** (Technology Addon)
  - Fields from raw data
  - Data Normalization
  - Splunkbase
    - splunkbase.splunk.com
  - Easy Button: Custom TA’s via “Splunk Add-on Builder” App

Never forget Splunk Stream
ES Architecture

Measure twice, cut once
Plan the Architecture

- Now we know what we want to do, how will we do it?
- Plan for modern data collection, deprecate legacy log collection infrastructure, stop accepting log loss today.
- Plan for Disaster Recovery and Availability
- Plan to remediate logging policies, and source configuration
Splunk Architecture

Components >

- Collection Layer (Connectors / parsers Vs. UF's / HF's)
- Parsing Layer (Technology Addon's)
- Storage Layer (Indexers)
- Presentation Layer (Search Head + Enterprise Security App)
- Security Analytics (Enterprise Security App)
- Management Layer (Deployment Server, Cluster Master, License Server, Deployer)

Data source will determine what components are needed. Your network determines where they should be.
Third Party Integrations

Smart? Great! But do you play well with others?
Smart? Great! But Do You Play Well With Others?

“At this point in the interview, Johnson, we would like to see how well you play with others.”
Richard Stevens, Penfield, N.Y.
Third-Party Integrations

Identify current / future state third-party integration points

We Support Integration with most third-party systems:

- Case Management / Ticketing Systems
  - (ServiceNow, Remedy, etc)
- Threat Intelligence Feeds
  - (STIX, TAXII, Internal, etc)
- Database Integration
  - (Oracle, MySQL, etc)
- Microsoft Active Directory
- REST API support
- Custom Code
- Others
You got this!!!

Things you can do today, to get prepared for your SIEM Replacement
Replacement Checklist:

- Identify / Audit & prioritize use cases for migrations
- Identify / Audit and prioritize datasources for Migration
- Identify datasource owners
- Research Splunk Technology Addon's for datasource: splunkbase.splunk.com
- Assets & Identities: Identify CMDB Sources
- Third-party Integrations
- Develop logging standards
What Do “You” Do Next?
We've successfully completed countless hair-pulling SIEM replacements before, you're in good hands – partner with us!!!

Get on the fast track, contact your Splunk Sales Rep. “today” to learn more about PS' SIEM & Use Case Development Programs

You're in luck, we're here to help you today: We have a break-out room X dedicated for you to talk to us about your SIEM Replacement

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Thank You

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