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

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September 23 – 25, 2017 | Washington, DC

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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

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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

Ryan Faircloth

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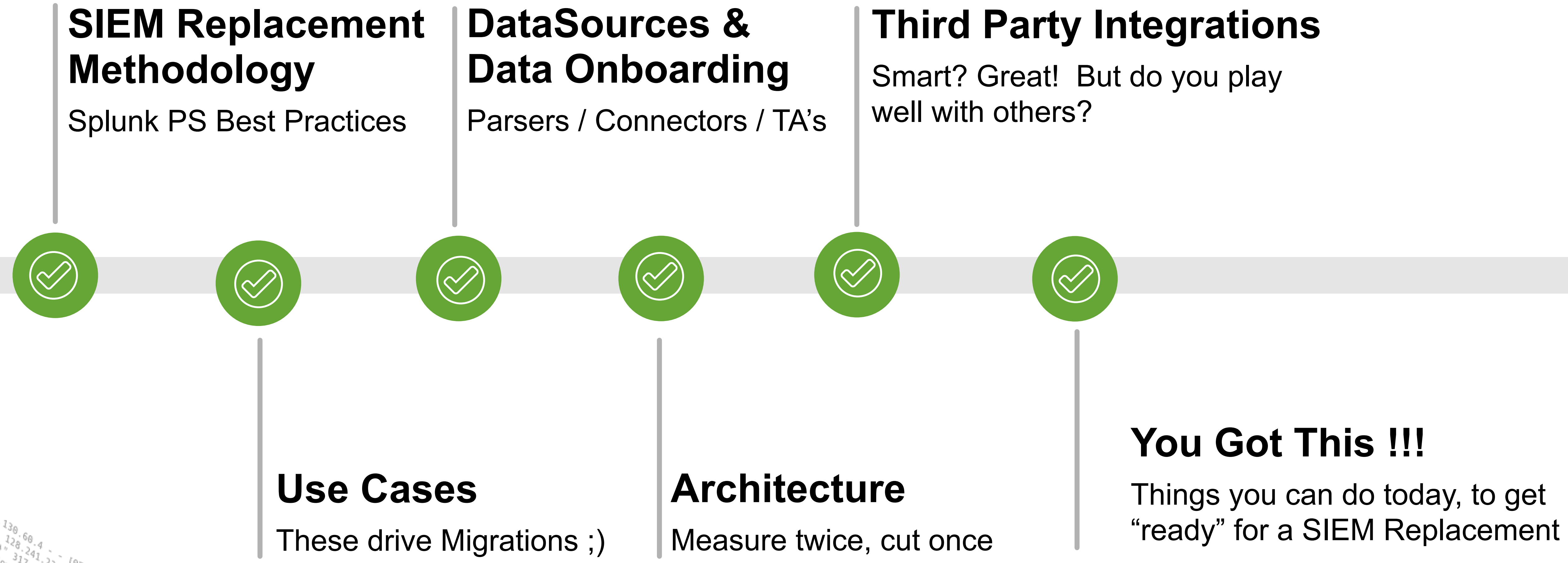
Sr Security Consultant, Splunk

- 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

Use Cases

These drive Migrations ;)

DataSources & Data Onboarding

Parsers / Connectors / TA's

Architecture

Measure twice, cut once

Third Party Integrations

Smart? Great! But do you play well with others?

You Got This !!!

Things you can do today, to get "ready" for a SIEM Replacement

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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 loose 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

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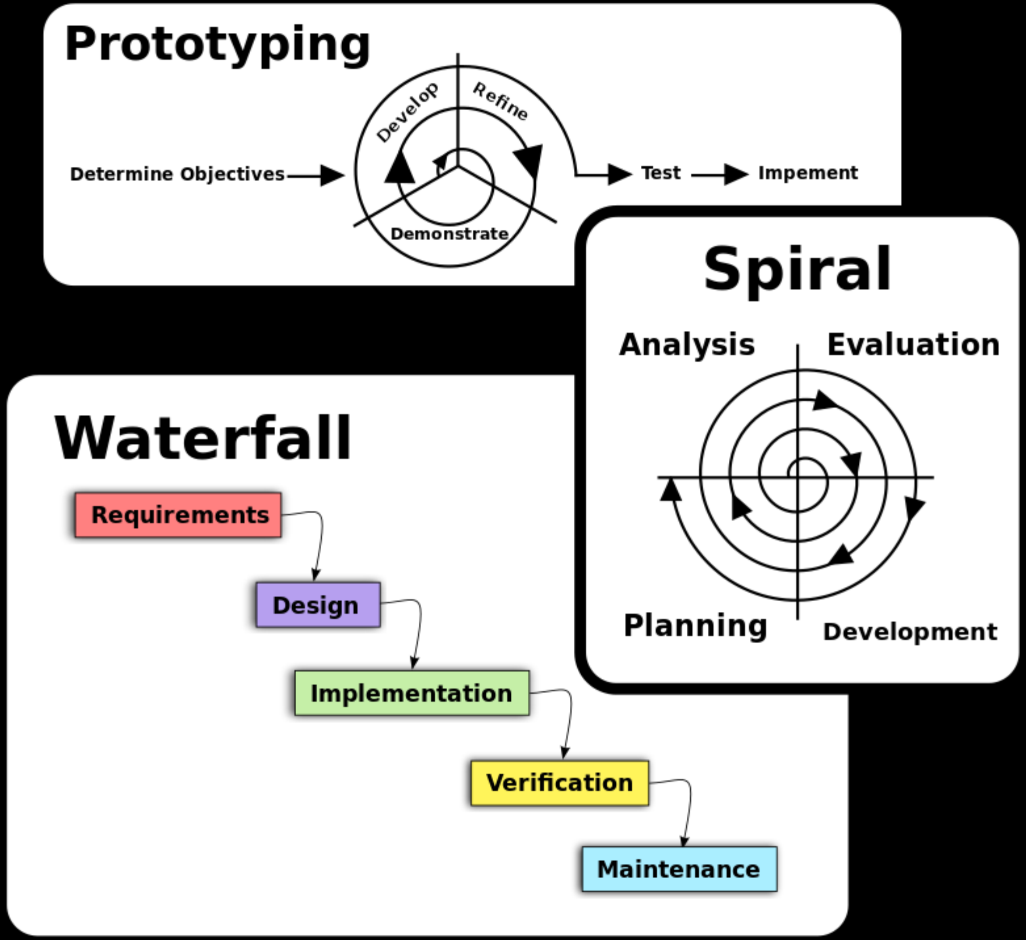
Use Cases

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?



Prototyping

Determine Objectives → Develop → Refine → Demonstrate → Test → Impement

Spiral

Analysis

Evaluation

Planning

Development

Waterfall

Requirements → Design → Implementation → Verification → Maintenance

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?

Putting the Horse Before the Cart …

- 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

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Datasources & Data Onboarding

Parsers / Connectors / TA’s (Technology Addon’)

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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

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ES Architecture

Measure twice, cut once

Plan the Architecture

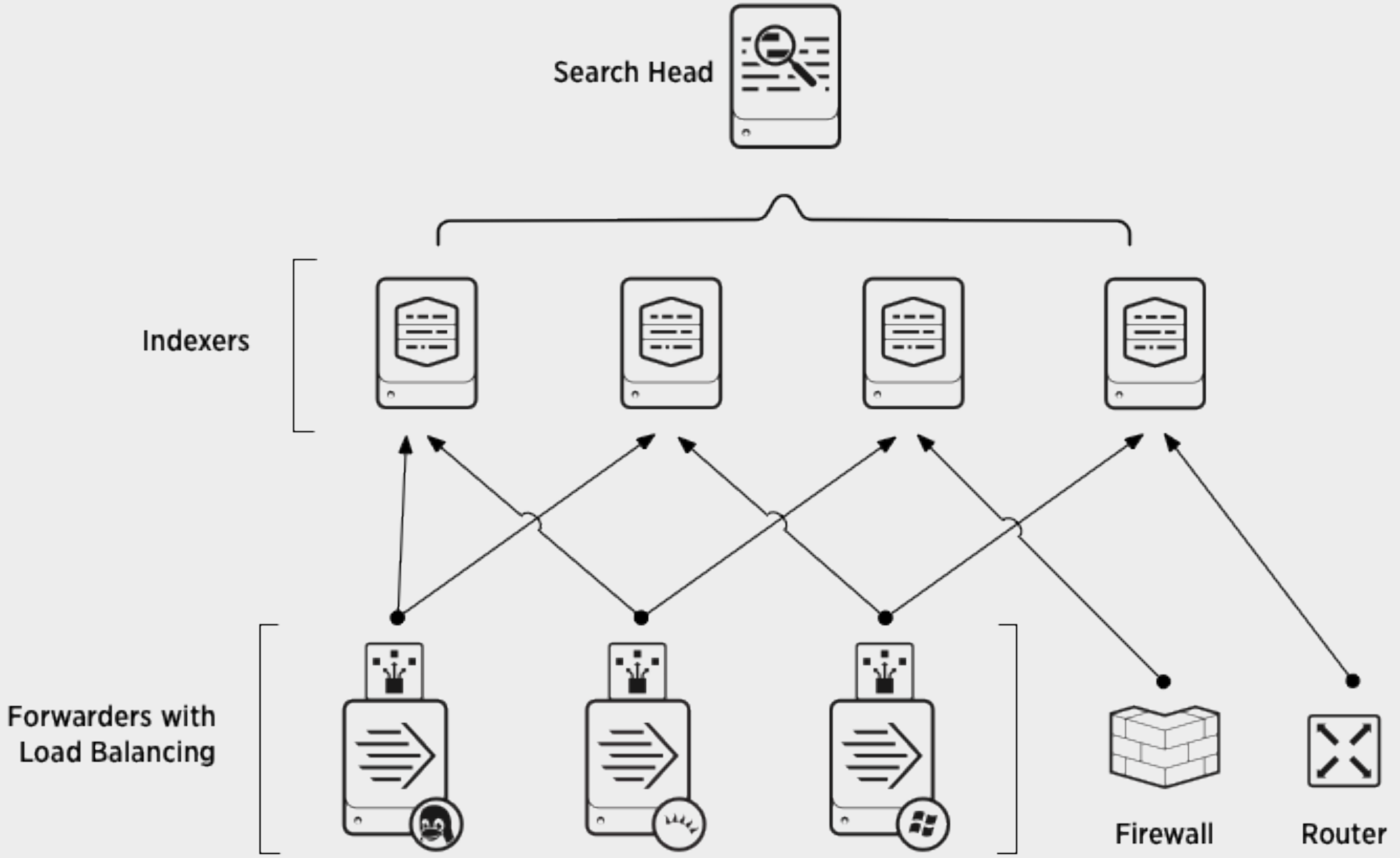
- Now we know what we want to do, how will we do it?
- Plan for modern data collection, deprecate legacy log collection infrastructure, stop accepting log loss today.
- Plan for Disaster Recovery and Availability
- Plan to remediate logging policies, and source configuration

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



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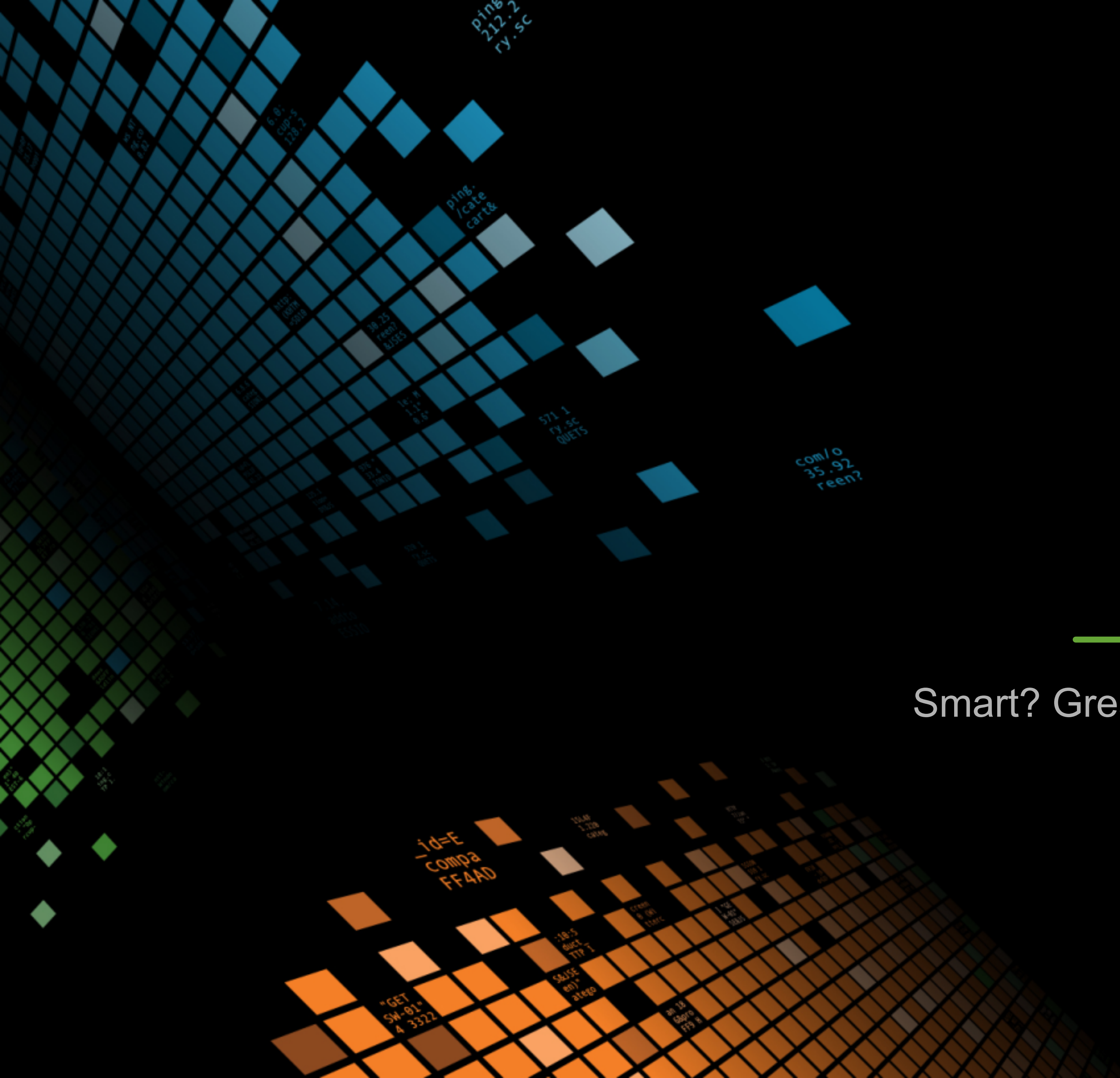

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Third Party Integrations

Smart? Great! But do you play well with others?

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"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

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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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Making Machine Data Accessible, Usable And Valuable To Everyone.

Thank You

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