

Keeping Track Of All The Things

A use-case and content management story

Matt Parks | Manager, Kaiser Permanente

Ruperto Razon | Sr. Threat Analyst, Kaiser Permanente

Our Purpose

- ▶ Share our lessons learned in consolidating artifacts of our migration from a previous SIEM to our current SIEM/logging solution
- ▶ Describe the process our team developed to manage our security use-case and content development efforts
- ▶ Provide you some answers to a few familiar questions

What Questions? These Questions

- What does our security coverage look like, from a use-case perspective?
- Bob in accounting was infected by **<insert-threat-of-the-day-here>**, who else was infected?
- How are we tracking towards our high level security goals for the year?
- What does your development team do all day?

Who are you guys?

Matt Parks

Manager, Security Analytics, Cyber Risk Defense Center



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► [linkedin.com/in/matthewparks](https://www.linkedin.com/in/matthewparks)

Who are you guys?

Ruperto Razon

Sr. Threat Analyst, Security Analytics, Cyber Risk Defense Center



- ▶ Ruperto.S.Razon@kp.org
- ▶ [linkedin.com/in/PertoRazon](https://www.linkedin.com/in/PertoRazon)
- ▶ @thatperto

KAISER PERMANENTE®

11.8 M
Members



21,275
Physicians

54,072
Nurses

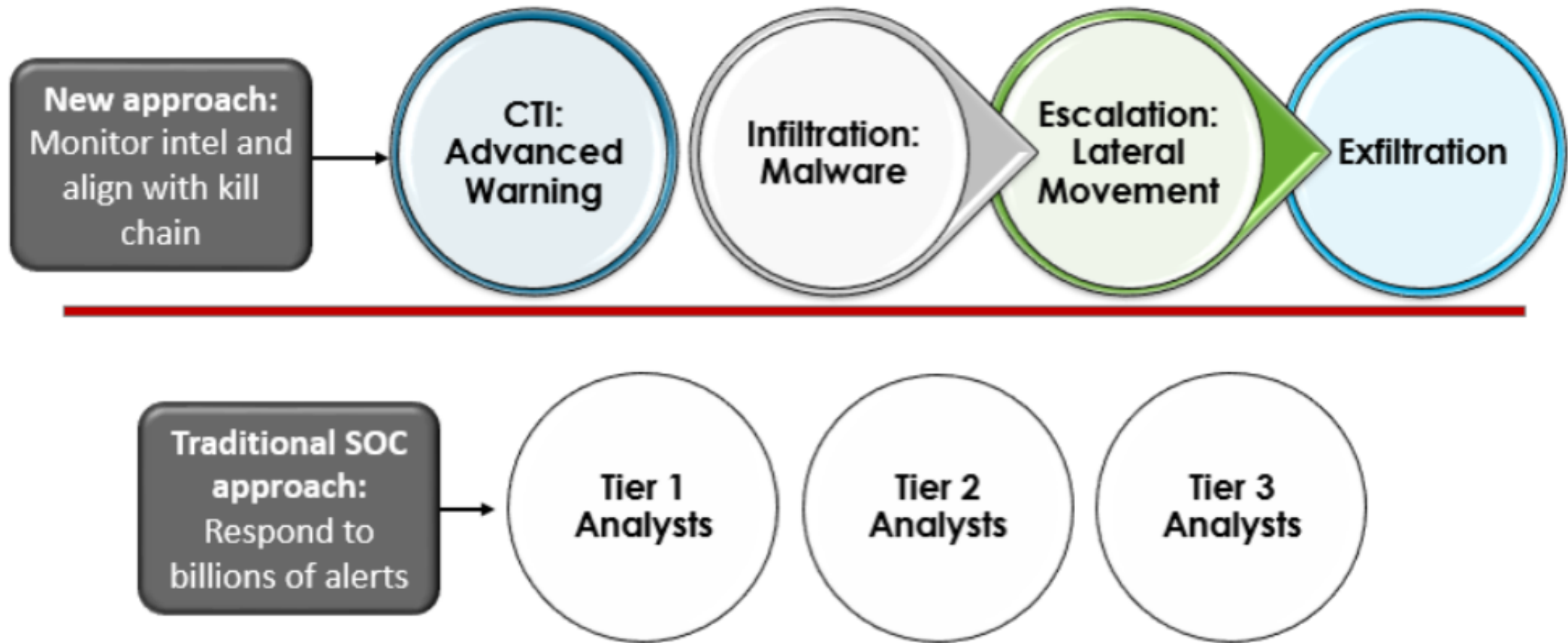


201,776
Employees

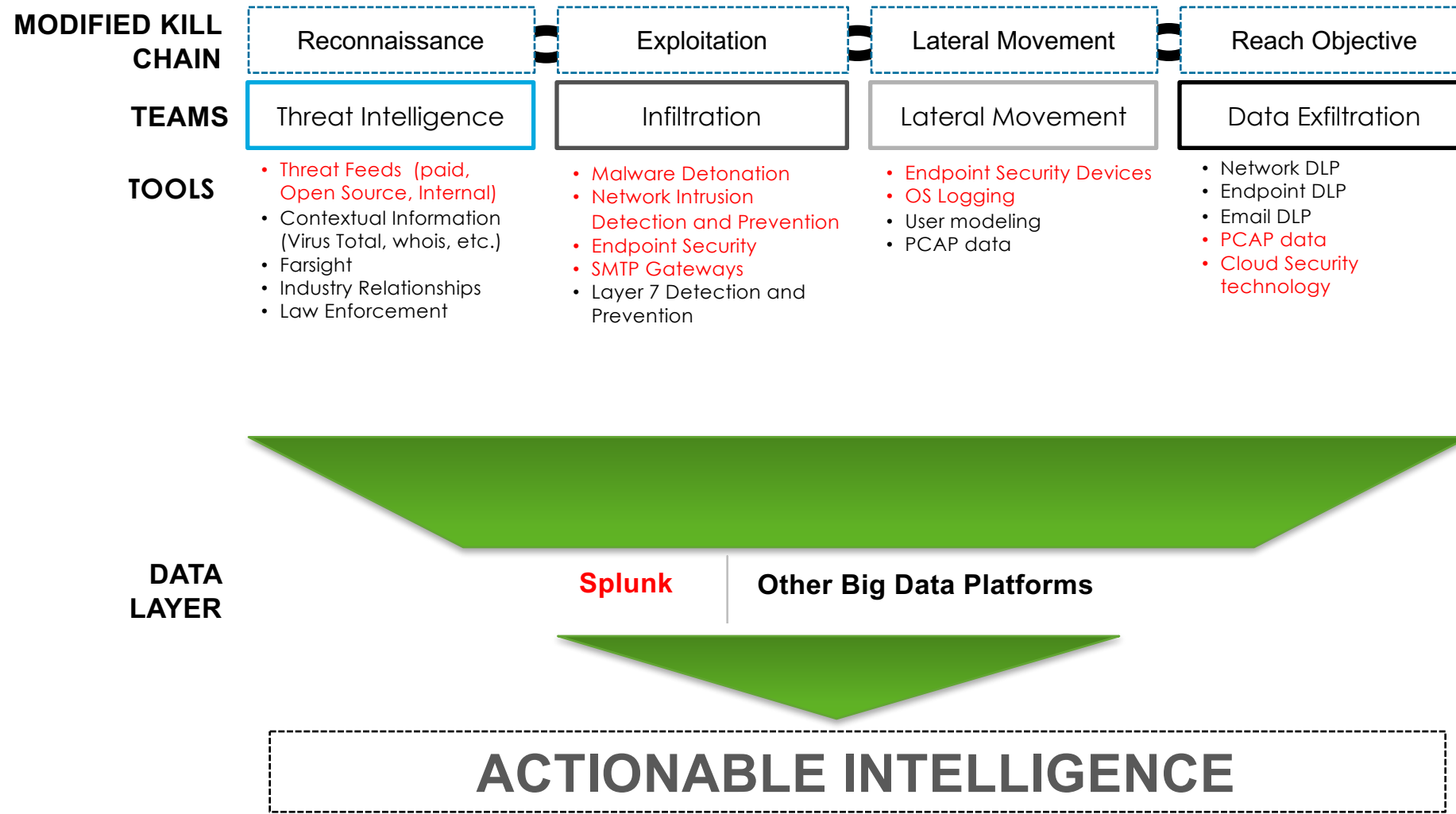
711
Hospitals,
medical offices



Cyber Risk Defense Center (CRDC)



Advanced and Actionable Intelligence



Pre-Migration (Summer 2015)

- ## Migration Complete (Spring 2016)

- 

Where We Are Today

- ▶ 8+TB data/day
- ▶ 60+ distinct sourcetypes
- ▶ 75+ Custom Threat Use-Cases
- ▶ 100+ Scheduled Reports/Dashboards/Form Searches

130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D5SLAFF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FI-SW-03"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D5SL7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/category.screen?category_id=GIFTS"
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ows NT 5.1; SV1; .NET CLR 1.1.4322" 468 125.17 14.1.1.1 "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5SL8FF1ADFF0 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS"
item_id=EST-16&product_id=RP-LI-02" 468 125.17 14.1.1.1 "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5SL8FF1ADFF0 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/category.screen?category_id=FLOWERS"
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	A	
241	BB:Kaiser:MalwareF	USER
242	BB:Kai	
243	BB:Kai	A
244	BB:Kai	1 What do y ID
245	BB:Kai	8 Drop/Canc
246	BB:	9 Drop/Canc
247	BB:	11 Drop/Canc
248	BB:	
251	BB:	
253	BB:	
254	MV	
255	BB:	
256	BB:	
257	BB:	
260	Pol	
261	Pol	
264	BB:	12 Drop/Canc
265	BB:Kai	13 Drop/Canc
266	BB: Cr	
267	BB:Kai	

Artifacts of Note

- ▶ Naming conventions
- ▶ Search logic
- ▶ Knowledge objects
- ▶ Scheduling of searches/reports
- ▶ Asset Categories
- ▶ Recipients/Users
- ▶ Original Requestor
- ▶ Tribal Knowledge

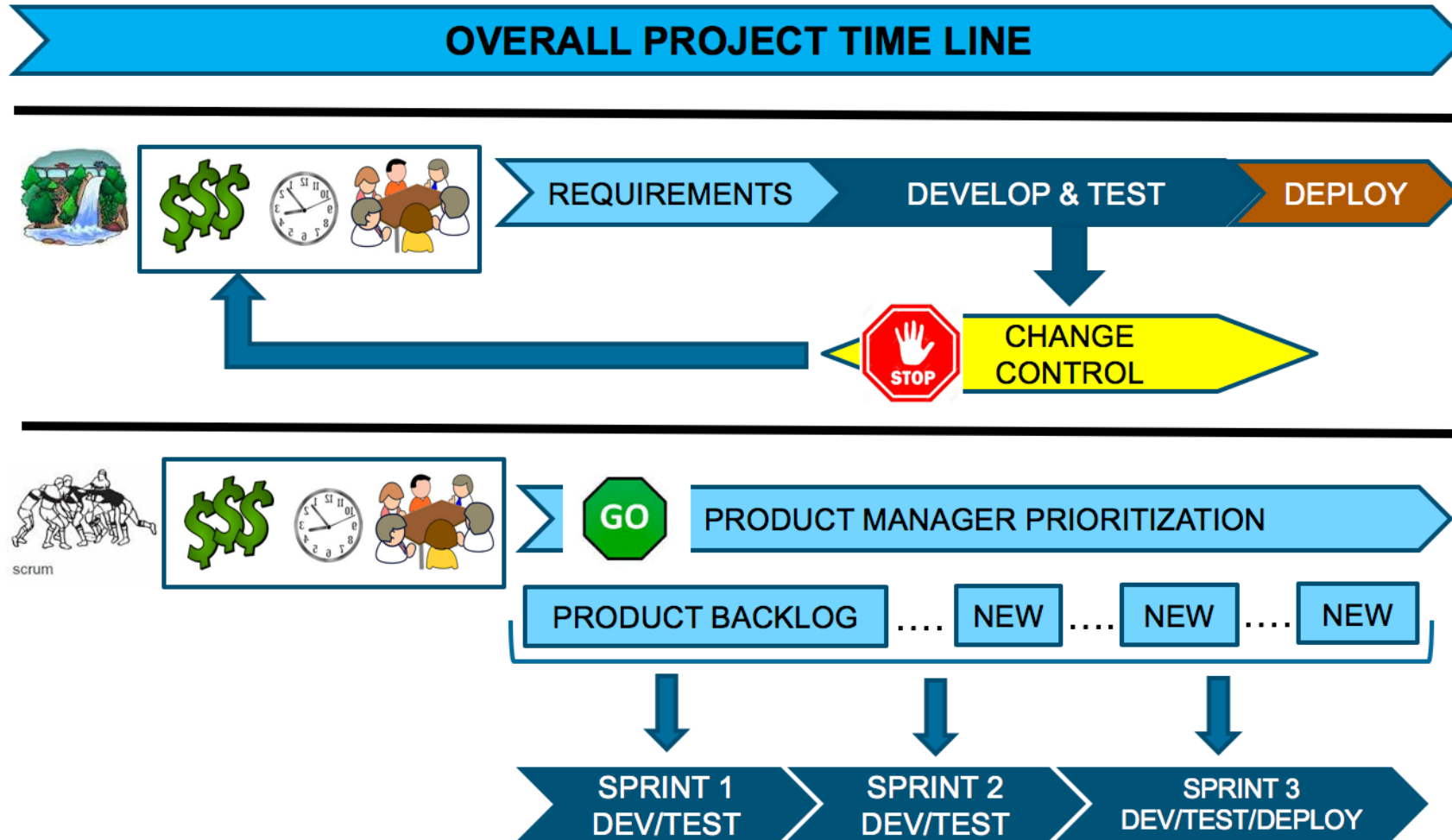
Scrum in 100 Words

- Scrum is an agile process that allows us to focus on delivering the highest business value in the shortest time.
- It allows us to rapidly and repeatedly inspect actual working software (every two weeks to one month).
- The business sets the priorities. Teams self-organize to determine the best way to deliver the highest priority features.
- Every two weeks to a month anyone can see real working software and decide to release it as is or continue to enhance it for another sprint.

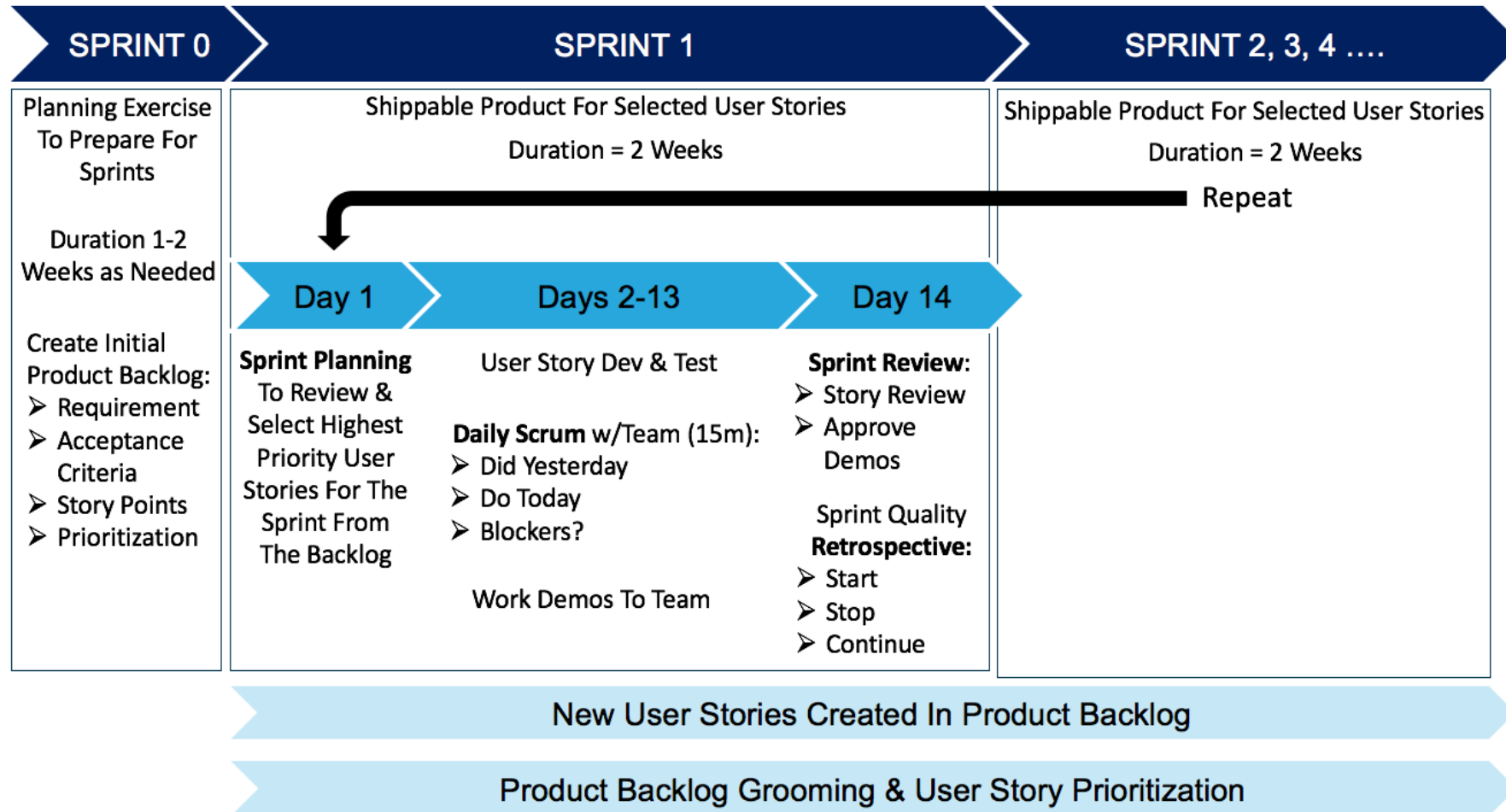
What does a Scrum look like?



The Scrum Advantage



Scrum Framework Process



Example Story

Summary	MW -Attacking IP High Data Rate Outbound	Assignee	Matt Parks
Issue Type	Story	Epic Link	Security Analytics Operations
Reporter		Sprint	
Component/s	None	Completed sprints	Use Case Content Sprint 9
Description	As a member of the team I need to do detect attacking IP's that are receiving a high ratio of data so we can detect potential attacker activity corresponding with potential data exfiltration and respond accordingly. Acceptance Criteria: # All sub-tasks are Complete and the correlation search/model has been implemented and is enabled in Production as at least Informational or a low Severity/Confidence # New Story Created for TV Team to do use case validation		
Fix Version/s		Story Points	13
Priority	Medium	CRDC Tag	MW SA es
Attachment	Drop files to attach, or browse .		
Linked Issues	relates to	Actual Work	13
Issue		TL; DR	Alert for attackers with high volume outbound

Start typing to get a list of possible matches.

Start typing to get a list of possible matches or press down to select.

Begin typing to search for issues to link. If you leave it blank, no link will be made.

Choose an epic to assign this issue to.

JIRA Software sprint field

Measurement of complexity and/or size of a requirement.

Use the "CRDC Tag" field as a replacement for the default "Label" field. CRDC Tag uses the Label Manager Plugin.

Short summary of what was actually done - keep to 30 words or less.

So what do we do with all this JIRA Data?

- Improve situational awareness
- Visualize our JIRA activity
- Improve our development process
- Answer questions

Bob in accounting was infected by <insert-threat-of-the-day-here>, who else was infected?

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Anyone heard of Wannacry?

► 14 separate JIRA Stories

- 3 new Correlation Searches
- 6 Research Stories
- 2 Tuning Requests
- 3 Stories for Follow-up/Remediation

The screenshot shows a JIRA issue page for 'New Threat Detection - Code Execution Vulnerability' under the 'Security Analytics' project. The issue is titled 'New Threat Detection - Code Execution Vulnerability' and is categorized as 'Microsoft Windows SMB Remote'. The issue is in the 'APPROVED' status, with a priority of 'High'. It is assigned to 'Ruperto Razon' and has a reporter 'Ruperto Razon'. The issue is part of the 'Use Case Content Sprint 14' and has 13 story points. The CRDC tag is 'SA es ransomware wannacry'. The actual work is 8 hours. The description states: 'As a member of TDA I need to do create a Use Case so we can detect any potential WannaCry ransomware outbreak, and respond accordingly. See original notes from [redacted] in [redacted] Comments.' The acceptance criteria are: 1. All sub-tasks are Complete and the correlation search/model has been implemented and is enabled in Production as at least Informational or a low Severity/Confidence; 2. Notification is sent to the TDA manager and team lead; 3. New Story Created for TV Team to do use case validation - Clone [redacted] and change the data source name; 4. New Tuning Request created for SA team to set accordingly the Correlation Search Severity or I Alert Severity/Confidence, based on TDA teams research.

Details

Type: Story Status: APPROVED (View Workflow)

Priority: High (View Workflow)

Affects Version/s: None Resolution: Unresolved

Fix Version/s: None

Epic Link: Security Analytics Operations

Sprint: Use Case Content Sprint 14

Story Points: 13

CRDC Tag: SA es ransomware wannacry

Actual Work: 8

Description

As a member of TDA I need to do create a Use Case so we can detect any potential WannaCry ransomware outbreak, and respond accordingly. See original notes from [redacted] in [redacted] Comments.

Acceptance Criteria:

1. All sub-tasks are Complete and the correlation search/model has been implemented and is enabled in Production as at least Informational or a low Severity/Confidence
2. Notification is sent to the TDA manager and team lead
3. New Story Created for TV Team to do use case validation - Clone [redacted] and change the data source name.
4. New Tuning Request created for SA team to set accordingly the Correlation Search Severity or I Alert Severity/Confidence, based on TDA teams research.

People

Assignee: Ruperto Razon

Reporter: Ruperto Razon

Votes: 0 Vote for this issue

Watchers: 1 Start watching this issue

Dates

Created: 26/Jun/17 11:25 AM

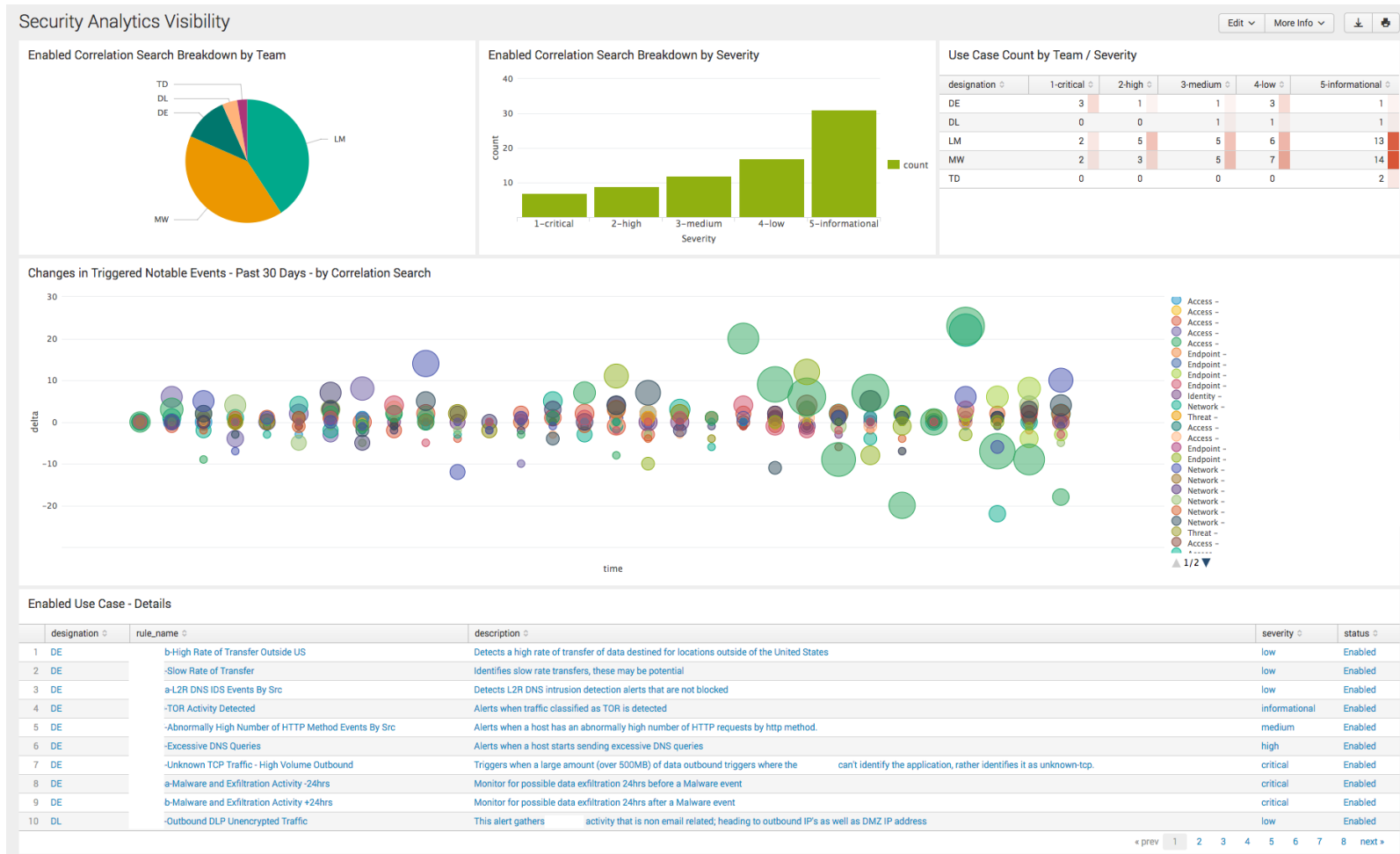
Updated: 26/Jun/17 11:25 AM

Agile

Completed Sprint: Use Case Content Sprint 14 ended 17/May/17

[View on Board](#)

Deployed Use-Case Visibility



Note: <insertyourdatahere>

- Enabled Correlation Search Breakdown by Team

- `|rest /services/alerts/correlationsearches splunk_server=local | rename eai:acl:app as application, title as csearch_name |join type=outer app csearch_name [rest /services/saved/searches| rename eai:acl:app as application, title as csearch_name, search as csearch|table app, csearch_name, csearch, disabled]|eval status=if(disabled==1,"Disabled","Enabled") | search status=Enabled | eval splitdes = split(rule_title, "-"), designation = mvindex(splitdes, 0) |table designation security_domain, rule_title, csearch_name, description, severity, csearch, disabled, status | stats count by designation | sort -count`
- Enabled Correlation Search Breakdown by Severity
- `|rest /services/alerts/correlationsearches splunk_server=local | search rule_title!="" | rename eai:acl:app as application, title as csearch_name |join type=outer app csearch_name [rest /services/saved/searches| rename eai:acl:app as application, title as csearch_name, search as csearch|table app, csearch_name, csearch, disabled]|eval status=if(disabled==1,"Disabled","Enabled") | search status=Enabled | eval splitdes = split(rule_title, "-"), designation = mvindex(splitdes, 0) |table designation security_domain, rule_title, csearch_name, description, severity, csearch, disabled, status | eval Severity=case(severity=="critical","1-critical", severity=="high","2-high", severity=="medium","3-medium", severity=="low","4-low", severity=="informational","5-informational") | stats count by Severity`

Searches!

Note: <insertyourdatahere>

► SA Visualization Dashboard (cont.)

- Use Case Count by Team / Severity
 - `|rest /services/alerts/correlationsearches splunk_server=local | rename eai:acl:app as application, title as csearch_name |join type=outer app csearch_name [rest /services/saved/searches| rename eai:acl:app as application, title as csearch_name, search as csearch|table app, csearch_name, csearch, disabled]|eval status=if(disabled==1,"Disabled","Enabled") | search status=Enabled | eval splitdes = split(rule_title, "-"), designation = mvindex(splitdes, 0) | table designation rule_title description, severity, status | eval Severity=case(severity=="critical","1-critical", severity=="high","2-high", severity=="medium","3-medium", severity=="low","4-low", severity=="informational","5-informational") | chart count as "Rule Count" by designation, Severity`
- Changes in Triggered Notable Events - Past 30 Days - by Correlation Search
 - ``notable` | search search eventtype!=notable_suppression* | bin _time span=24h |stats count by _time, search_name | streamstats window=2 global=f current=t first(count) as previous by search_name | eval delta=count-previous | eval time=_time | table search_name, time, delta, count`
- Enabled Use Case – Details
 - `|rest /services/alerts/correlationsearches splunk_server=local | search rule_title!= "" | rename eai:acl:app as application, title as csearch_name |join type=outer app csearch_name [rest /services/saved/searches| rename eai:acl:app as application, title as csearch_name, search as csearch|table app, csearch_name, csearch, disabled]|eval status=if(disabled==1,"Disabled","Enabled") | search status=Enabled | eval splitdes = split(rule_title, "-"), designation = mvindex(splitdes, 0) |table designation rule_name description, severity, status | sort designation, rule_name`

Searches!

Note: <insertyourdatahere>

► SA Visualization Dashboard (cont.)

- Correlation Search Performance
 - ```
index=_internal host=<yourSHhost> source=*scheduler.log app="" savedsearch_name="" (app=DA-* OR app=SA-*)
(savedsearch_name=<yourcorrsearchname> OR savedsearch_name=<yourcorrsearchname> OR
savedsearch_name=<yourcorrsearchname>)| eval run_time=run_time/60|stats min(run_time) as "Min runtime (min)", avg(run_time) as
avg_runtime, max(run_time) as max_runtime, count(eval(status!="continued")) AS total_exec, count(eval(status=="success"))
as"Successful executions", count(eval(status=="skipped")) AS "Skipped executions" by app, savedsearch_name, user host | stats
first(*) as * by savedsearch_name | eval interval_usage_ratio=round((median_runtime/schedule_period),2) | search total_exec>0 |
rename savedsearch_name AS Rule_name app AS App avg_runtime AS "Avg runtime (min)" max_runtime AS "Max runtime (min)"
user AS User total_exec AS "Total executions" | table Rule_name "Min runtime (min)" "Avg runtime (min)" "Max runtime (min)" "Total
executions" "Successful executions" "Skipped executions"| sort - "Avg runtime (min)" "Total executions"|join Rule_name [] rest
splunk_server=* /servicesNS/-/-/admin/savedsearch/ earliest_time=-0s@s latest_time=+2d@d search="is_scheduled=1"
search="disabled=0" search="(eai:acl.app=SA-* OR eai:acl.app=DA-*)"| dedup title| rename title AS Rule_name dispatch.earliest_time
AS earliest_time dispatch.latest_time AS latest_time|table Rule_name cron_schedule earliest_time latest_time]
```
- Skipped Correlation Searches
  - ```
index=_internal host=<yourSHhost> source=*scheduler.log savedsplunker status=skipped (app=SA-* OR app=DA-*)
(savedsearch_name=<yourcorrsearchname> OR savedsearch_name=<yourcorrsearchname> OR
savedsearch_name=<yourcorrsearchname>)| stats count values(scheduled_time) as scheduled_time values(_time) as _time by host
savedsearch_name, app | sort - SkipCount | rename savedsearch_name AS "Scheduled search name" count AS "Skip count" host AS
Server | fieldformat scheduled_time=strftime(scheduled_time, "%c") | fieldformat _time=strftime(_time, "%c")
```

How are we tracking towards our high level security goals for the year?

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Status Metricization

Used to show completeness of status regardless of velocity in a given Scrum related to Epic that have heretofore been unaccomplished but are tied to the current Sprint.

Edit ▾

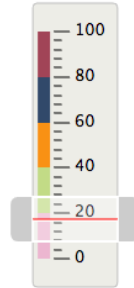
More Info ▾



Percent Completemeter

12.17 %

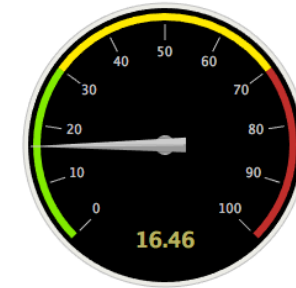
Truthiness



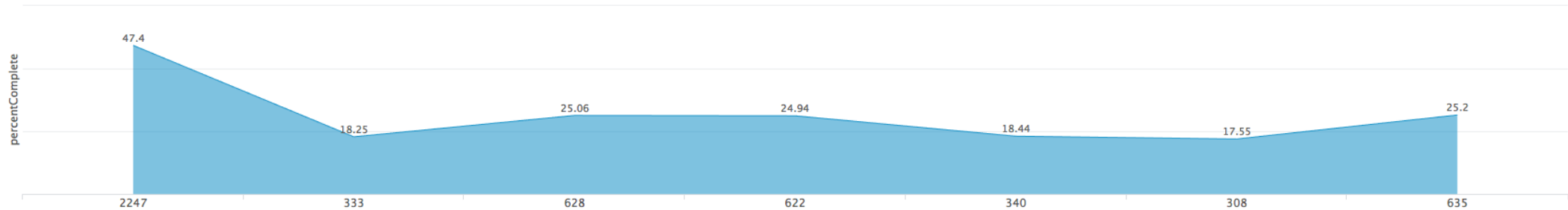
Number of



Visualization of Velocity of Completeness



Completion Percentage History



Should we develop this incredibly well designed use-case?

no

Excessive Extraneous Authentication Trend

596,713 number of things -209,501

Searches!

Note: <insertyourdatahere>

► Metricization Dashboard

- Percent Completometer
 - `index=<yourindex> sourcetype=<yoursourcetype> | head 5000 | search bytes<9801 | head 1 | table bytes | eval percentComplete=tostring(sqrt(bytes), "commas") | fields percent`
- Complete Truthiness
 - `index=<yourindex> sourcetype=<yoursourcetype> | head 110 | search bytes<9801 | tail 1 | table bytes | eval percentComplete=tostring(sqrt(bytes), "commas") | fields percentCompleteNumber of index=* | head 1 | eval sourcetype=0 | table sourcetype`
- Visualization of Velocity of Completeness
 - `index=<yourindex> sourcetype=<yoursourcetype> | head 100 | search bytes<9801 | head 1 | table bytes | eval percentComplete=tostring(sqrt(bytes), "commas") | fields percentComplete`
- Completion Percentage History
 - `index=<yourindex> sourcetype=<yoursourcetype> | head 10000 | search bytes<9801 bytes>4 | head 7 | table bytes | eval percentComplete=tostring(sqrt(bytes), "commas") | rename bytes as "Timechart Histor-o-meter"`

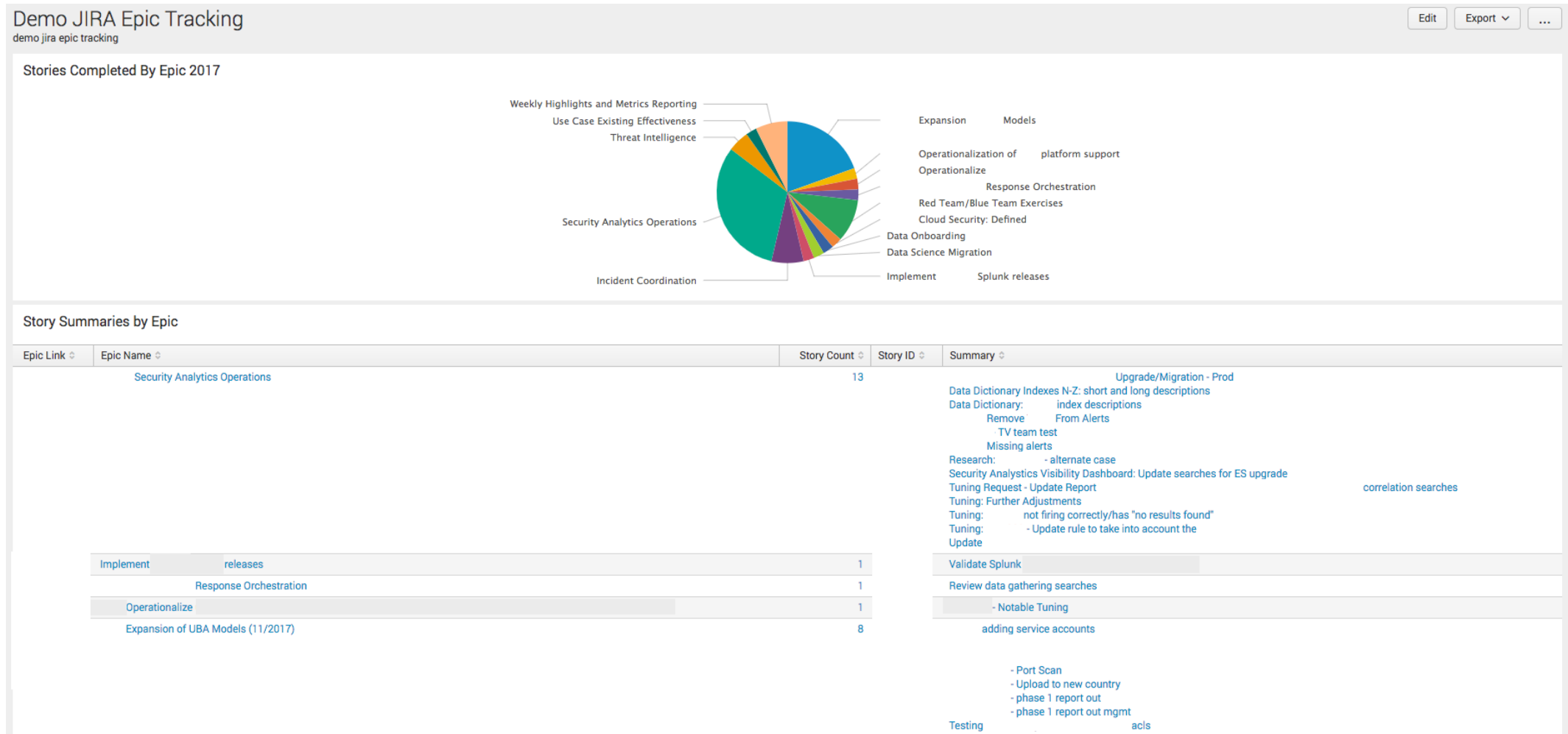
Searches!

Note: <insertyourdatahere>

► Metricization Dashboard (cont.)

- Should we develop this incredibly well designed use-case?
 - index=<yourindex> | stats count | eval countresult=if(count=5,"no","yes") | rename countresult AS value | table value count
- Completion Percentage History
 - index=<yourindex> sourcetype=<yoursourcetype> | head 10000 | search bytes<9801 bytes>4 | head 7 | table bytes | eval percentComplete=tostring(sqrt(bytes), "commas") | rename bytes as "Timechart Histor-o-meter"
- Excessive Extraneous Authentication Trend
 - | tstats prestats=t count where index=<yourindex> sourcetype=<yoursourcetype> by _time span=1d | timechart count

JIRA Epic Tracking



Searches!

Note: <insertyourdatahere>

► JIRA Epic Tracking

- Stories Completed By Epic 2017
 - |jira issues <issue filter> | join type=left "Epic Link" [|jira issues 10412 | rename Key AS "Epic Link" | fields "Epic Link" "Epic Name"] | stats count(Key) AS "Story Count" by "Epic Name"
- Story Summaries by Epic
 - |jira issues <issue filter> | stats count(Key) AS "Story Count" values(Key) AS "Story ID" values(Summary) AS Summary by "Epic Link" | join type=left "Epic Link" [|jira issues 10412 | rename Key AS "Epic Link" | fields "Epic Link" "Epic Name"] | table "Epic Link" "Epic Name" "Story Count" "Story ID" Summary

Confluence

Spaces
People
Questions
Calendars
Create
...

Security Analytics

Pages
Blog
Questions
Calendars

SPACE SHORTCUTS

Here you can add shortcut links to the most important content for your team or project. [Configure sidebar.](#)

PAGE TREE

- Data Science
- UBA
- Archive
- KP Application Reference

Security Analytics

Created by Dave Dyer, last modified by Matt Parks on Aug 18, 2017

Interesting
Dashboards can be found [here](#).

Who We Are:

	@ Matt Parks			@ Ruperto S. Razon			
Director Emeritus	Manager and Buffalooney!	Data Scientist	Security Analytics	That Guy	Threat Validation	Threat Researcher	Process Engineer

What We Do:

Data Science

Research and development of advanced analytical models to improve the security of the KP network. Correlation of multiple disparate large-scale data sets to find interesting patterns and behavior. Assistance with investigations that require big data tools to process large requests.

Security Analytics

The Security Analytics team is comprised of Data Scientists and Sr. Security Analysts and Engineers. Our goals are to provide actionable, integrated, and context rich alerts leveraging expertise in Information Security and Big Data Analytics tools; using an Agile (Scrum) method to help manage workflow. Also Perto like to do Metrics dashboards.

Process Engineering

is our resident Agile Coach, Process Engineer, Scrum Master, Project Coordinator, and all around good guy. He helps shepherd the Security Analytics and other CRDC teams through the process quagmire, looking to streamline and simplify where appropriate (which is just about everywhere).

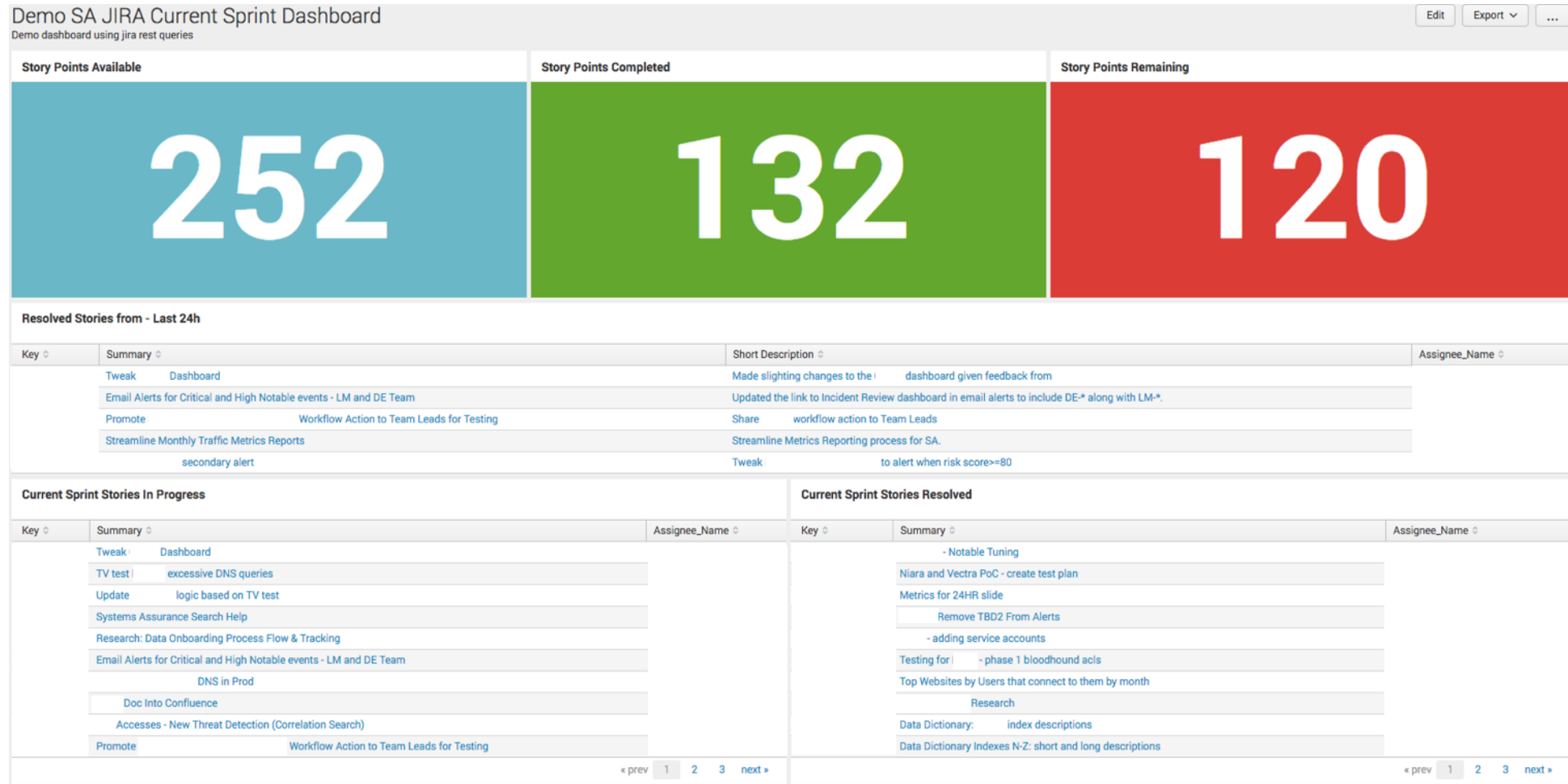
Our Tools:

Log collection, aggregation, and analysis tool that collects various types of security, application, server and other machine data. hearts time series data.

Security Framework for logs collected by core

This is the application from which the Threat Detection Analysis team triages, investigates and escalates threats to the KP network.

This Is What We're Doing Right Now



Searches!

Note: <insertyourdatahere>

► JIRA Current Sprint Dashboard

- Current Sprint Stories Resolved
 - | jira issues <current sprint filter> | search Resolved!=null | rex field=Assignee "\"displayName\": \"(?<Assignee_Name>\w+\s\w+)\" | table Key Summary "TL; DR" Assignee_Name
- current sprint stories in progress
 - | jira issues <current sprint filter> | search Resolved=null | rex field=Assignee "\"displayName\": \"(?<Assignee_Name>\w+\s\w+)\" | table Key Summary "TL; DR" Assignee_Name
- closed in the last 24h - for morning call
 - | jira issues <current sprint filter> | rex field=Assignee "\"displayName\": \"(?<Assignee_Name>\w+\s\w+)\" | table Key Summary "TL; DR" Assignee_Name
- story points available
 - | jira issues <current sprint filter> | stats sum("Story Points") AS value | eval value=rnd(value,0)
- story points completed
 - | jira issues <current sprint filter> | search Resolved!=null | stats sum("Story Points") AS value | eval value=round(value,0)
- story points remaining
 - | jira issues <current sprint filter> | search Resolved=null | stats sum("Story Points") AS value | eval value=round(value,0)

Searches!

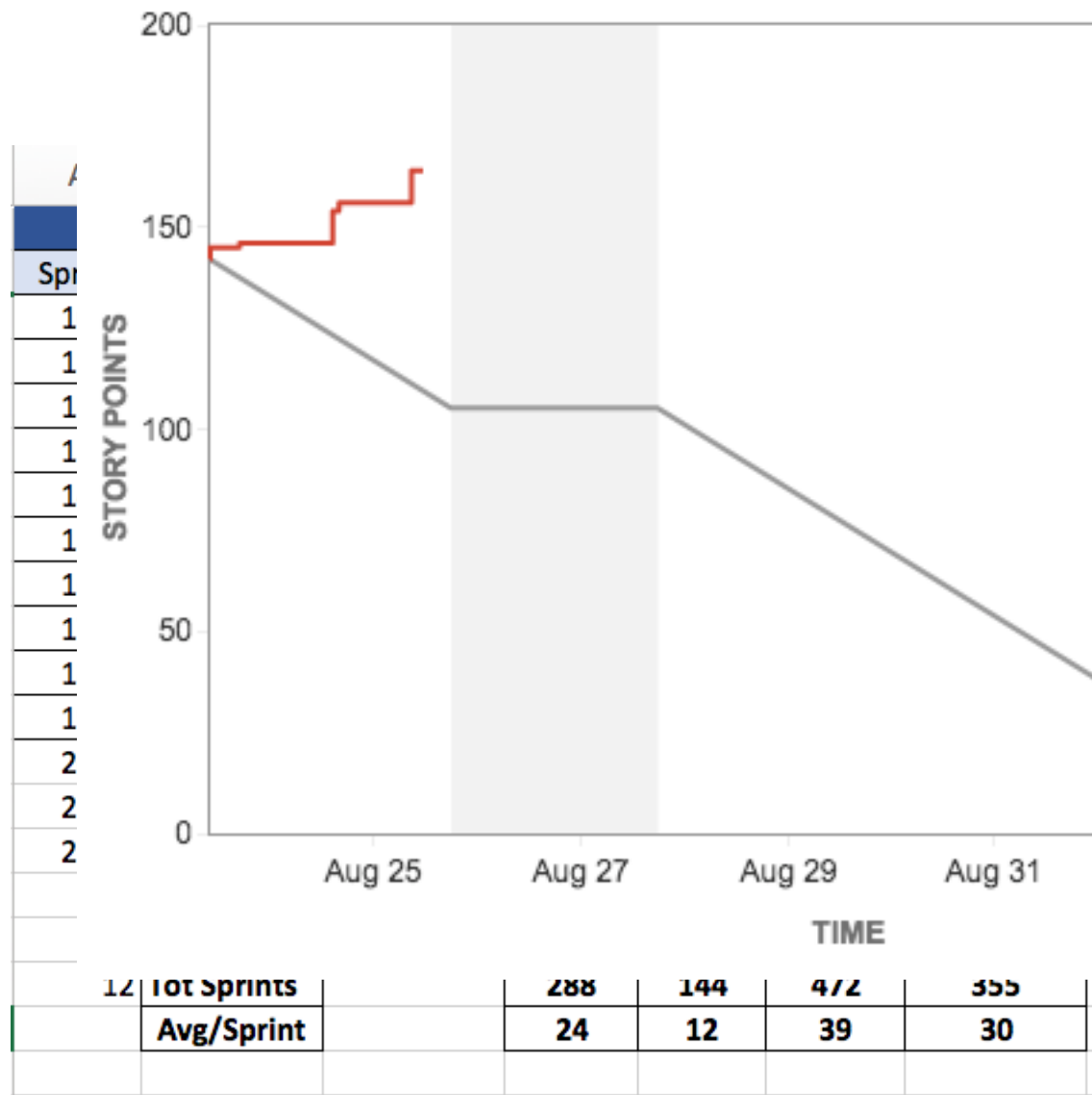
Note: <insertyourdatahere>

► JIRA Current Sprint Dashboard

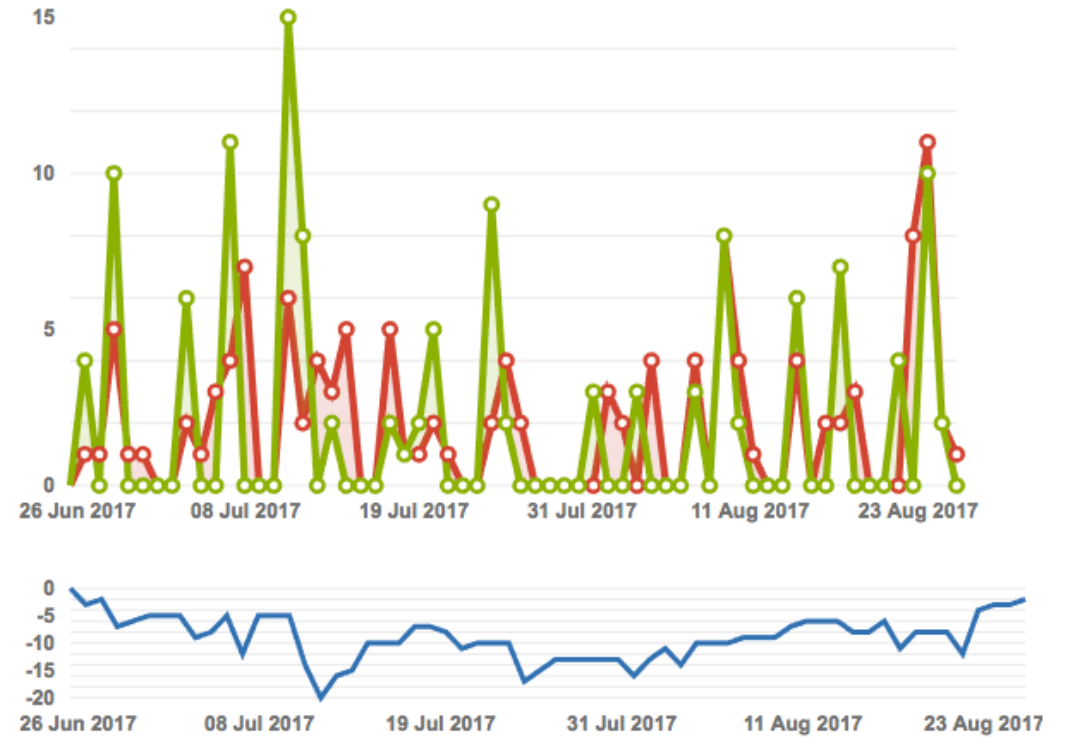
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Recap

- ▶ Gave you tips on how you can build a flexible content development process
- ▶ Shared with you a real-world example of how this flexible process works in practice
- ▶ Provided you with dashboards and searches that will improve visibility of your security posture, high-level goal tracking and content dev capacity



Created vs. Resolved Chart: Security Analytics Issues

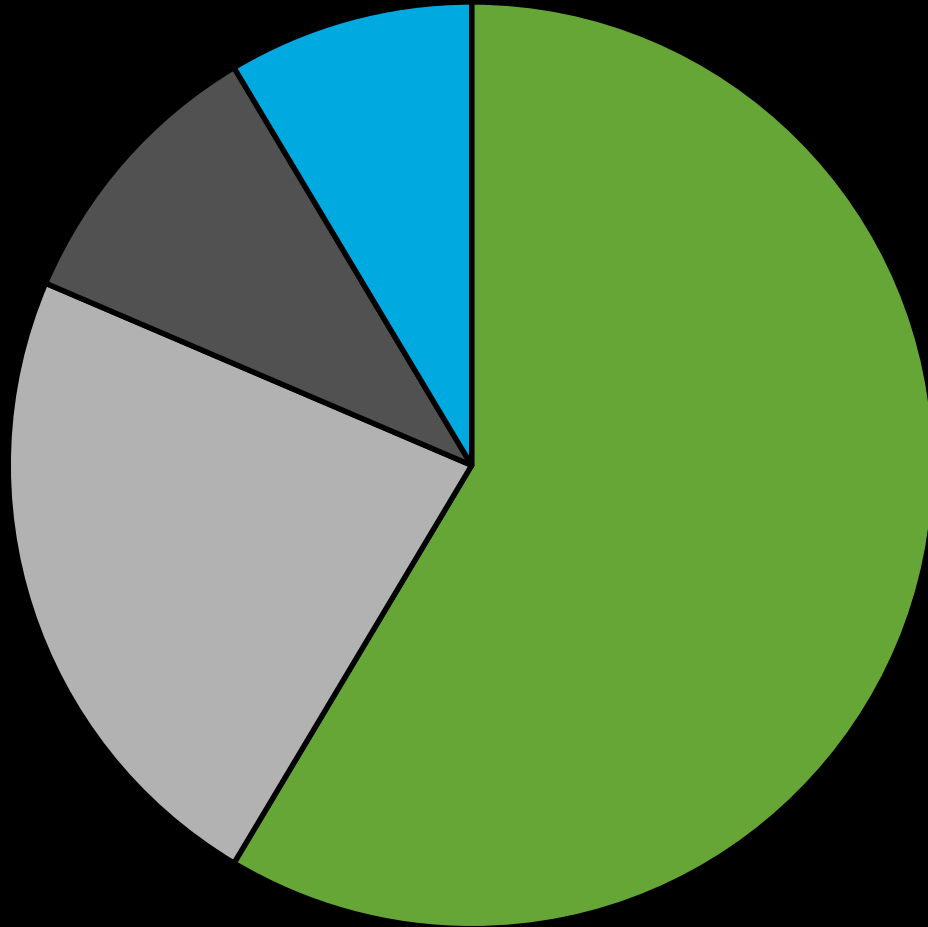
Issues in the last 60 days (grouped daily) [View in Issue Navigator](#)

- Created issues (123)
- Resolved issues (125)

What can you do in the next 12 months?

- ▶ Identify the key metadata in your currently deployed use-cases
- ▶ Listen to your dev team. Examine your current dev process and improve on the challenges identified by your team
- ▶ When building your process, work towards a minimum viable product (MVP)

96%





Do or do not, there is no try.

- Abraham Lincoln



Links!

▶ KP Career Site

- <https://www.kaiserpermanentejobs.org/>

► Scrum Alliance

- <https://www.scrumalliance.org/>

► Great Video on Thought Leadership

- https://www.youtube.com/watch?v=_ZBKX-6Gz6A&sns=em

► Splunk App for Jira

- <https://splunkbase.splunk.com/app/1438/>

► JIRA and Confluence Info

- <https://www.atlassian.com/>

Questions?

130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&SESSIONID=5D5SLAFF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FI-SW-03"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&SESSIONID=5D5SL7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&product_id=FI-SW-03"
317 27.160.0.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&SESSIONID=5D5SL9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&SESSIONID=5D5SL8FF3ADFF9 HTTP 1.1" 200 2423 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1&product_id=FI-SW-03"
itemId=EST-16&product_id=RP-LI-02" 468 125.17 14.1189] "GET /cart.do?action=changequantity&itemId=EST-6&SESSIONID=5D5SL8FF3ADFF9 HTTP 1.1" 200 2423 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1&product_id=FI-SW-03"
do?action=purchase&itemId=EST-26&SESSIONID=5D5SL9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&SESSIONID=5D5SL8FF3ADFF9 HTTP 1.1" 200 2423 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1&product_id=FI-SW-03"
http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&SESSIONID=5D5SL9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&SESSIONID=5D5SL8FF3ADFF9 HTTP 1.1" 200 2423 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-1&product_id=FI-SW-03"