



splunk>

Domino's Delivery of a Faster Response was No Standard Order

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MICHAEL SHEPPARD

Manager, Application Security



DOMINO'S

#1 in Pizza Delivery
-OH YES WE DID-

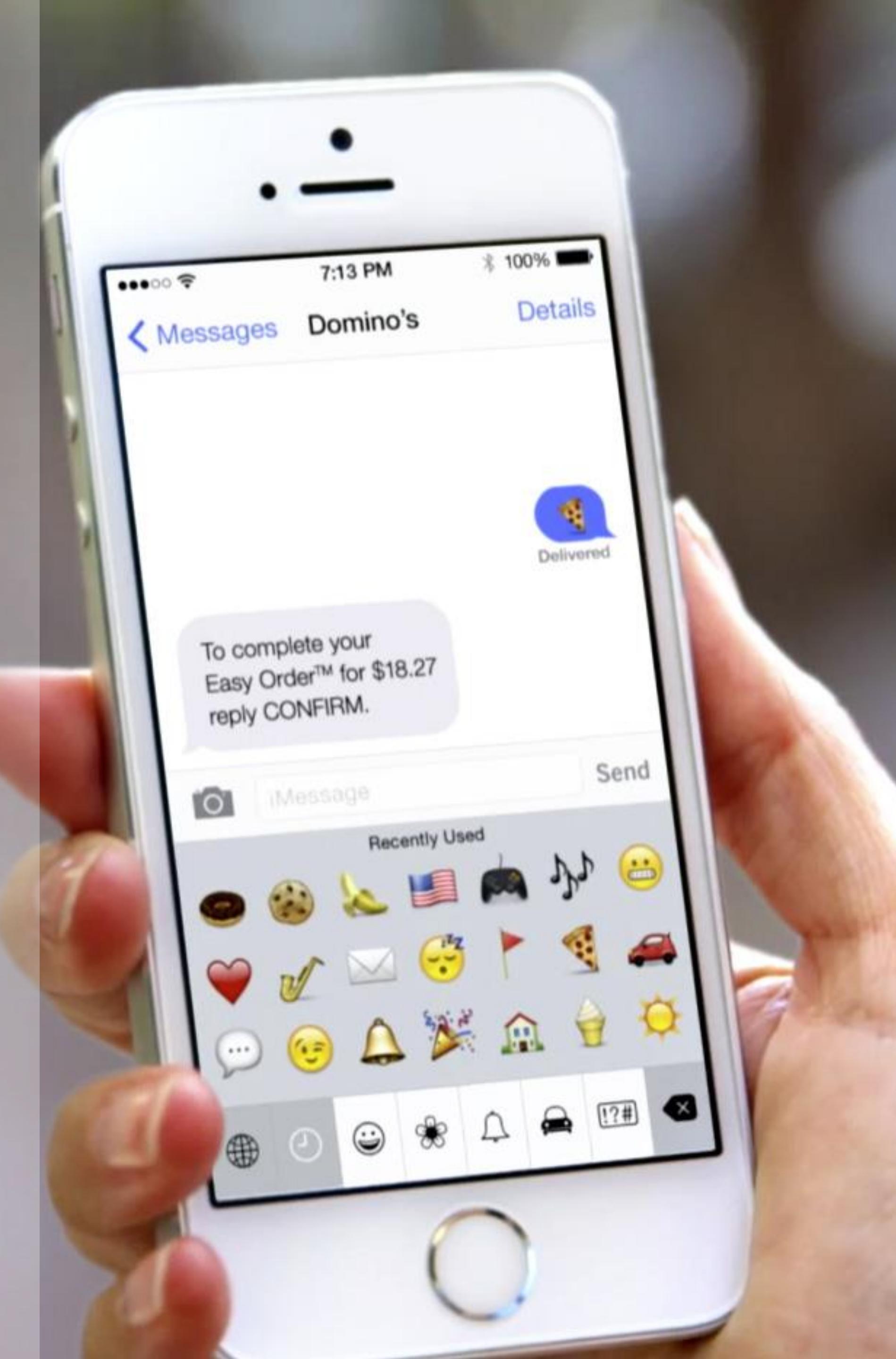


A technology company that delivers pizza

More than
14,000+ stores

In over 85
international
markets.

\$5.6 Billion in
Global Digital
Sales

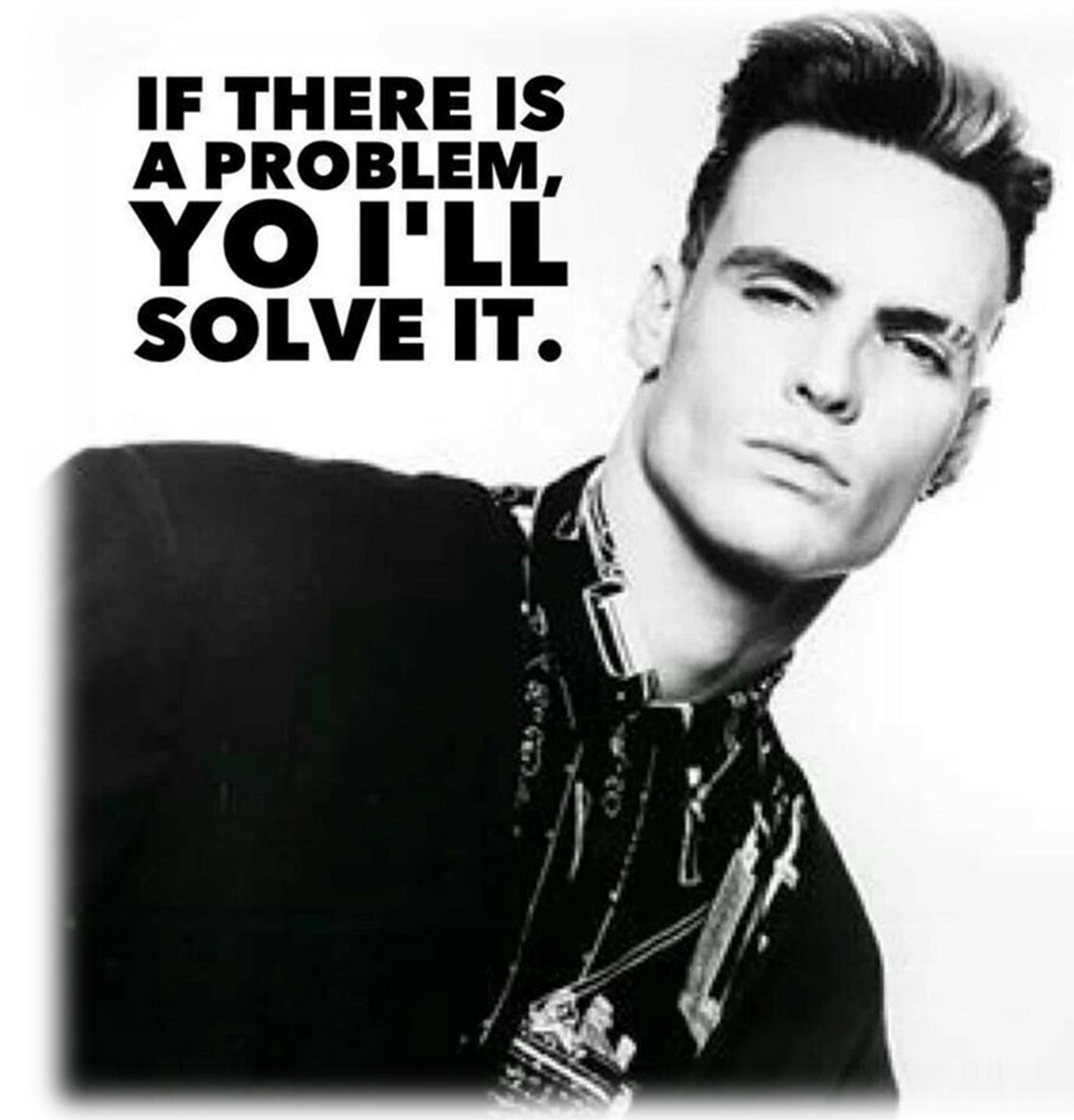


PROBLEM – A MATTER OR SITUATION REGARDED AS UNWELCOME OR HARMFUL

Our security review process sucked.

Very few teams engaged security and thus Risk was

**IF THERE IS
A PROBLEM,
YO I'LL
SOLVE IT.**



“

They wouldn't even lift a finger to save their own grandmothers from the Ravenous Bugblatter Beast of Traal without orders signed in triplicate, sent in, sent back, queried, lost, found, subjected to public inquiry, lost again, and finally buried in soft peat for three months and recycled as firelighters.”

DOUGLAS ADAMS, THE HITCHHIKER'S GUIDE TO THE GALAXY

**PREVIOUS
PROCESS**

**Broken / Manual
Meetings, lots of
Meetings
No Alignment
No Visibility**

**PROCESS AFTER
AUTOMATION**

**Integrated
Streamlined
Automated
Monitored**

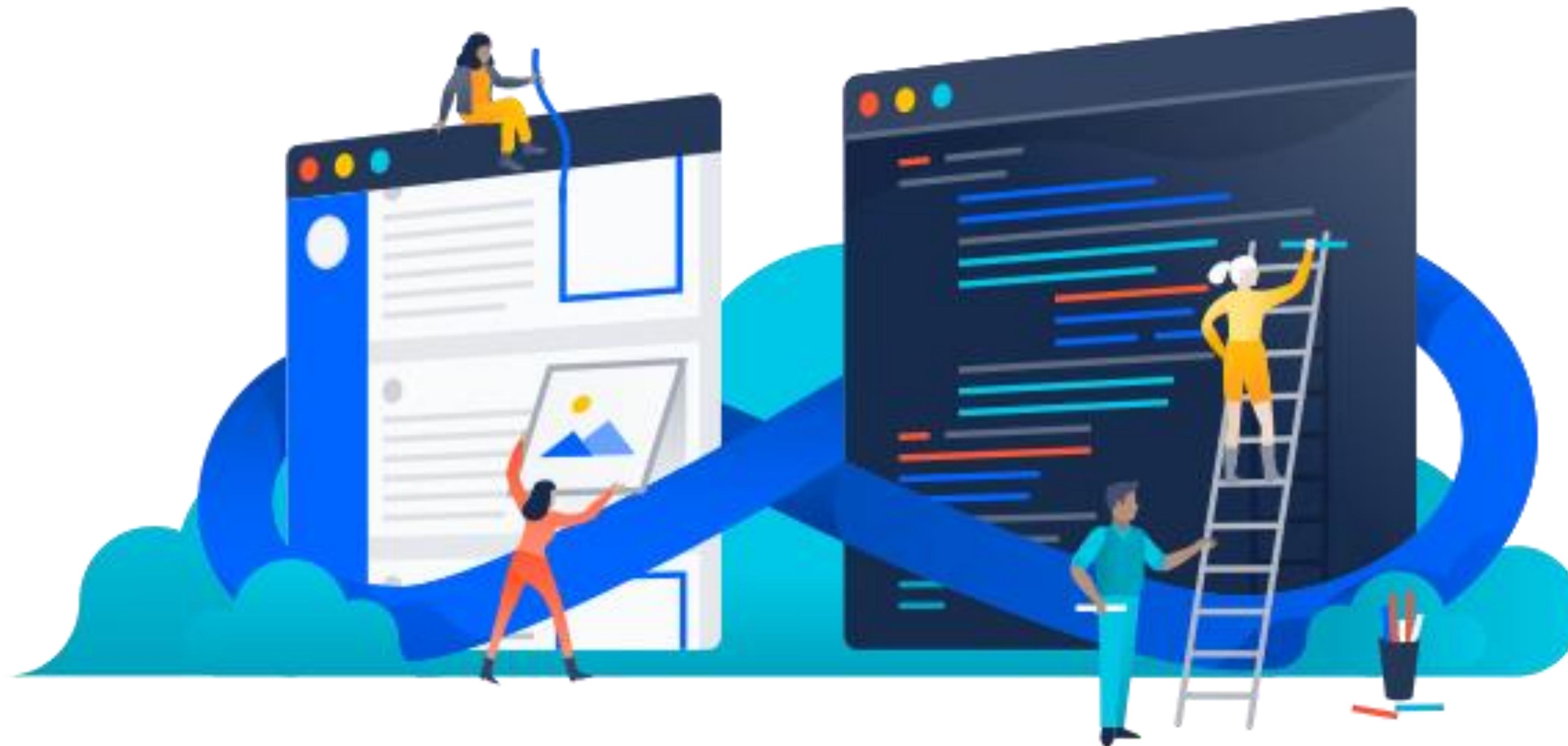
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Confluence + JIRA + Splunk





How did we *unsuck* our Security

- **Process** We had to go to where the developers live. (Confluence and JIRA)
 - Created a Form on Confluence using Adaptavist Forms for Confluence.
 - Asked 8 Critical questions to ascertain the risk of a project.
 - Partnered with Adaptavist and developed our JIRA Form Handler application that handles incoming form data & automatically performs Risk decisioning.
 - Created and assigned JIRA tickets which detail out key Domino's Security requirements.
 - Presented detailed Key Performance Indicators metrics in Splunk Dashboard from JIRA Security Tickets



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Application Security Engagement Request

Created by Michael Sheppard (IT - SecDomEcom), last modified on May 05, 2017

Adaptavist

Application Security Engagement

Step One

Applicant Name*: Please provide your name

Service Name*: Please provide Service Name (ex. kiosk-service). If the service name has not yet been identified, please use (tbd-service).

What Jira Project Key
Name is this Application /
Service under* Please list the Jira Project Key Name

Step One Step Two Step Three Final Back Next

Application Security Engagement Request

Created by Michael Sheppard (IT - SecDomEcom), last modified on May 05, 2017

Adaptavist

Application Security Engagement

Step Two

Is the Service public facing? i.e. (Yes or No)*

Please Select

Please choose one

Does it handle Sensitive Data? i.e. (PCI, PII, Credentials, etc.)*

Please Select

Please choose one

Does it use any of the following HTTP Methods / Verbs? i.e. (POST, PUT, DELETE)*

Please Select

Please choose one

Step One Step Two Step Three Final Back Next



Application Security Risk Form

Created by Michael Sheppard (IT - IT_CORE), last modified by Holly Marsh (IT - InflntEcom) on Jun 22, 2017



Step Three

Does this Service connect
to a back-end database?*

Please Select

Please choose one

Does this Service make
calls to any other internal
Services?*

Please Select

Please choose one

Does this Service initiate a
call down to stores? (E.g.
RemotePulseAPI)*

Please Select

Please choose one



Step One

Step Two

Step Three

Final

Back

Next

Application Security Risk Form

Created by Michael Sheppard (IT - IT_CORE), last modified by Holly Marsh (IT - InflntEcom) on Jun 22, 2017

Final

Does this Service send data to external 3rd parties*
Please Select
Please choose one

Is this Service under any regulatory or governmental requirements? i.e. (PCI, SOX, GLBA, etc.)*
Please Select
Please choose one

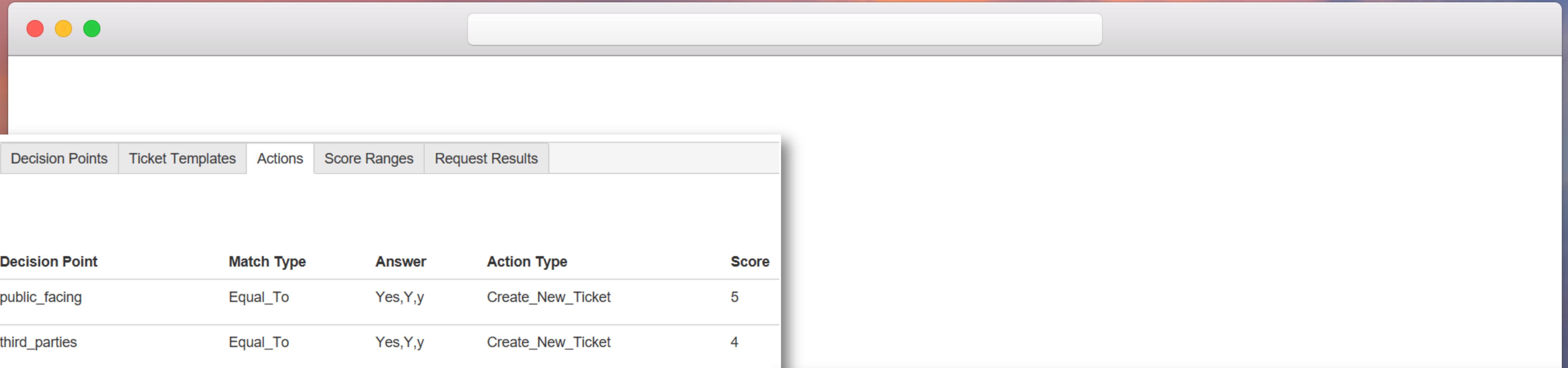
If available, please provide Confluence link for Architectural Diagrams.
Please provide link in Confluence

Special Notes:
ex. This service is supported by a third party.

Please provide any additional information
ex. This service sends nutrition data to the government.

Brief description of what this Service does.

Step One Step Two Step Three Final Back Submit



Decision Points	Ticket Templates	Actions	Score Ranges	Request Results
Decision Point	Match Type	Answer	Action Type	Score
public_facing	Equal_To	Yes,Y,y	Create_New_Ticket	5
third_parties	Equal_To	Yes,Y,y	Create_New_Ticket	4
regulatory_requirements	Equal_To	Yes,Y,y	Create_New_Ticket	5
sensitive_data	Equal_To	Yes,Y,y	Score_Range_Calculation	7
http_method	Equal_To	Yes,Y,y	Score_Range_Calculation	5
backend_database	Equal_To	Yes,Y,y	Score_Range_Calculation	5
stores	Equal_To	Yes,Y,y	Score_Range_Calculation	4
other_services	Equal_To	Yes,Y,y	Score_Range_Calculation	3

Decision Points	Ticket Templates	Actions	Score Ranges	Request Results
Name	Lower Range	Upper Range	Service Tickets	
Critical Range	30	40	Secure Coding Guidelines Ticket Security Architecture Review Ticket Threat Modeling Engagement Ticket Non-Functional Requirements Ticket Functional Requirements Ticket	
High Range	20	29	Secure Coding Guidelines Ticket Security Architecture Review Ticket Threat Modeling Engagement Ticket Non-Functional Requirements Ticket Functional Requirements Ticket	
Medium Range	10	19	Secure Coding Guidelines Ticket Security Architecture Review Ticket Non-Functional Requirements Ticket Functional Requirements Ticket	
Low Range	0	9	Secure Coding Guidelines Ticket Functional Requirements Ticket	

[confluence] AppSecRiskForm

 Delton Perez

Today, 3:53 PM

Michael Sheppard (IT - SecDomEcom) ▾

   Reply all | ▾

Label: Default 18 Month Delete (1 year, 6 months, and 3 days) Expires: 2/13/2020 2:53 PM

applicant_name: perezd3
service_name: Pulse
jira_key: PUL
public_facing: No
sensitive_data: No
http_method: No
backend_database: No
other_services: No
stores: No
third_parties: No
regulatory_requirements: No
confluence_link:
special_notes: ex. This service is supported by a third party.
business_logic: This change is to limit printing of Loyalty receipt for non-members on transactions under a dollar amount.

Getting too much email from Delton Perez <Delton.Perez@dominos.com>? You can unsubscribe

JIRA Security Requirements Ticket

InfoSec Projects / IP-135
Request for a Web Application Penetration Test by Ron Ulko for Service One

[Edit](#) [Comment](#) [Assign](#) [More](#) [Backlog](#) [Selected for Development](#) [Workflow](#)

[User story map](#) [Kanban board](#) [Releases](#) [Reports](#) [Issues](#) [Components](#) [Roles](#) [Tests](#)

Details

Type:	<input checked="" type="checkbox"/> Task	Status:	BACKLOG (View Workflow)
Priority:	<input checked="" type="checkbox"/> Major	Resolution:	Unresolved
Labels:	None		

Description

Service One
confluence.com
ex. This service sends nutrition data to the government.
ex. This service is supported by a third party.
****Web Application Penetration Testing Requirement Ticket

This ticket requires you the TDM to ensure your project has been reviewed by Ron Ulko and a determination made by Ron Ulko as to whether or not your project requires Web Application Penetration Testing.

TDM - It is your responsibility to ensure this requirement is met.

TDM - This security requirement is considered met;

A.) When Ron Ulko determines Web Application Penetration Testing is not required for your project and notes as such in the comments field for this ticket whereby you the TDM can then close this ticket.

B.) Or a Web Application Penetration Test is performed on your project and Ron Ulko notes in the comments field for this ticket that this requirement has been met and you are cleared and or have satisfied this particular requirement.

****TDM - You are not to CLOSE this ticket until this specific security requirement is met and or Ron Ulko determines by noting the comments field in this ticket that Web Application Penetration Test is not required for your project.

Task Assignee: Ron Ulko

****Ron Ulko you are responsible within 72 hours of receiving notification via e-mail of this security requirements ticket to contact the project TDM via e-mail and or phone and schedule an initial meeting to review / determine whether or not this project requires a Web Application Penetration Test

TDM Next Steps - TDM your next step is to meet with Ron Ulko once engaged by Ron Ulko and have your project reviewed and have a determination made by Ron Ulko as to whether your project requires a Web Application Penetration Test. If Ron Ulko determines that your project does in fact require a Web Application Penetration Test then TDM you are responsible for working with Ron Ulko to schedule the Web Application Penetration Test.

If a determination is made by Ron Ulko that your project requires a Web Application Penetration Test then TDM you are responsible for;

Working with Ron Ulko to Schedule the Web Application Penetration Testing for your project.

Provide necessary items to perform the Web Application Penetration Test for your project.

Items:

Availability of Application and or Service
Test Data for Application and or Service
Test Credentials for Application and or Service

[People](#)

Assignee: [Ronald Ulko \(IT - IT_CORE\)](#)
[Assign to me](#)

Reporter: [Michael Sheppard \(IT - IT_CORE\)](#)

Votes: 0

Watchers: 3 [Stop watching this issue](#)

[Dates](#)

Created: 4 days ago
Updated: 4 days ago

[Development](#)

[Create branch](#)

[Agile](#)

[View on Board](#)

[HipChat discussions](#)

Dedicated room: [Create a room](#) [Choose a room](#)
Other rooms: Issue mentioned in 0 rooms

The Raw Numbers

Application Security Risk Form Usage over 18 months



Form
Submissions



Tickets
Created



Engagements
Opened



Engagements
Closed



Requirements
Met



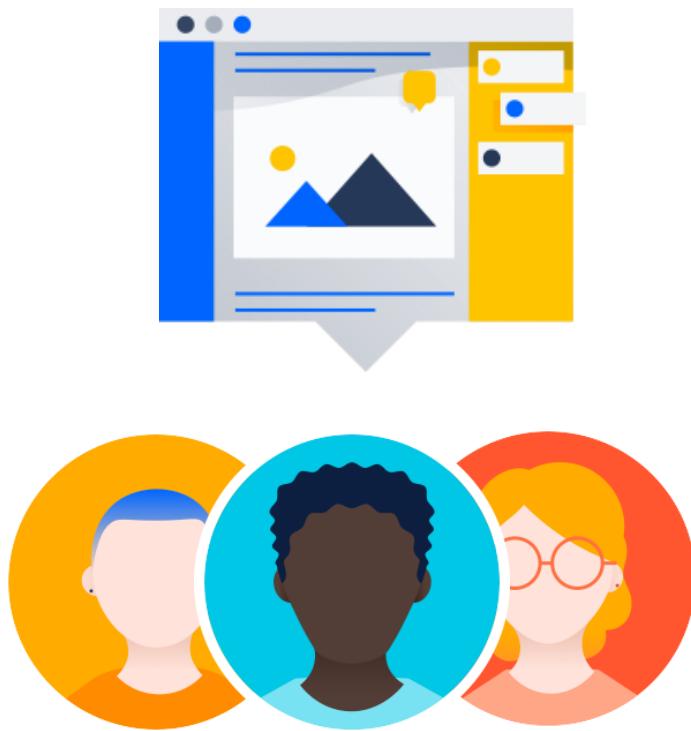
Requirements
Not Met

Change the Conversation w/Security



Standardize

Create Consistent Engagement across the Enterprise.



Easier

Remove the dependency on meetings and provide project teams clear direction on approval requirements and next steps



Faster

Make input and decision workflow take minutes instead of hours.

A photograph of two men sitting on a black leather couch. The man on the left is wearing a grey hoodie and holding a white coffee cup. The man on the right has a beard and is wearing a red and white checkered shirt, looking at a silver laptop. A white mug sits on a light-colored wooden coffee table in front of them.

Other Internal Use Cases

Finance

E-Commerce

PMO

SRE

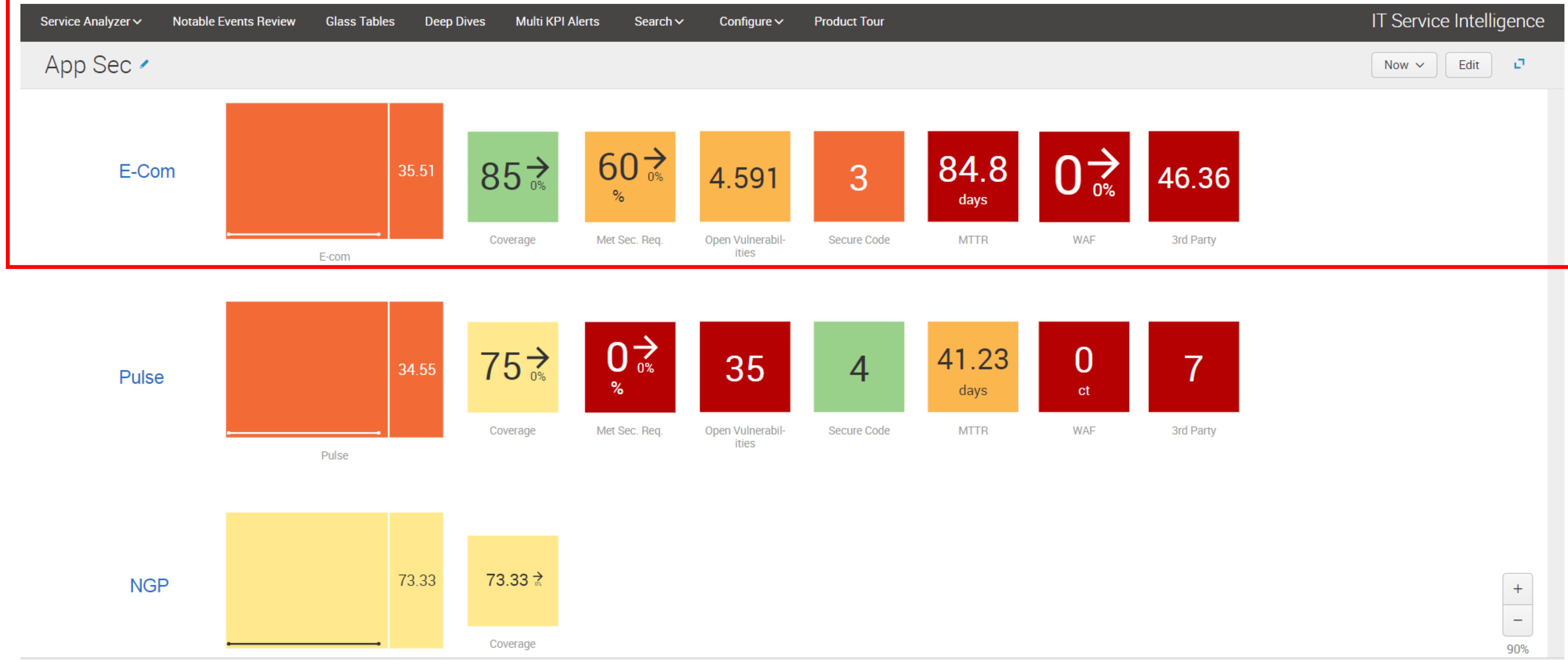
SOC



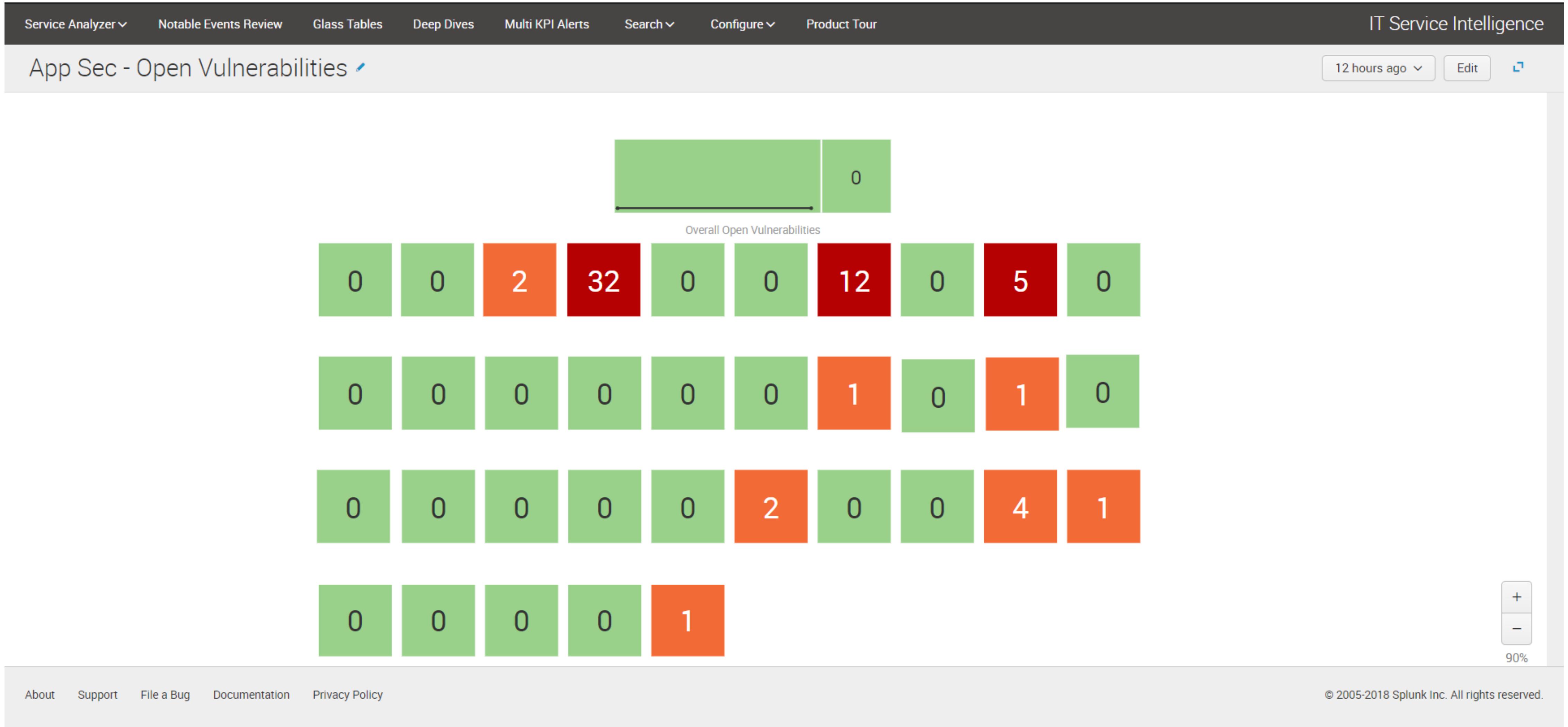
**Now that we've
streamlined and
automated! It's
time to Monitor.**



AppSec Metrics Dashboard – Executive View

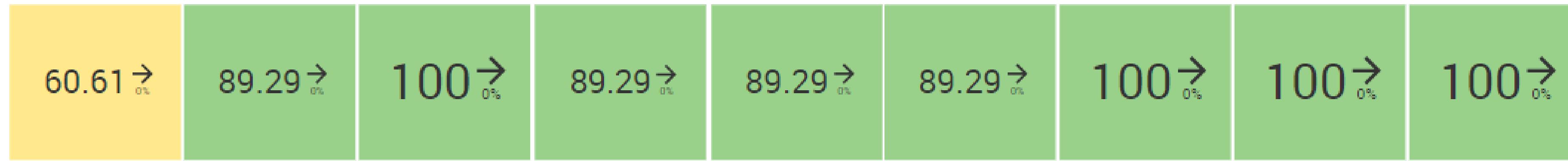
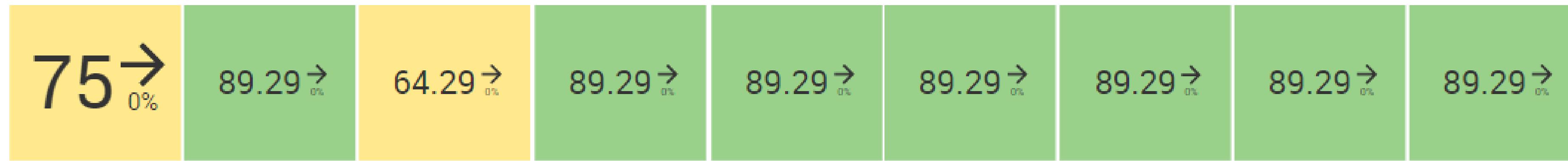


KPI Metrics Drill-down

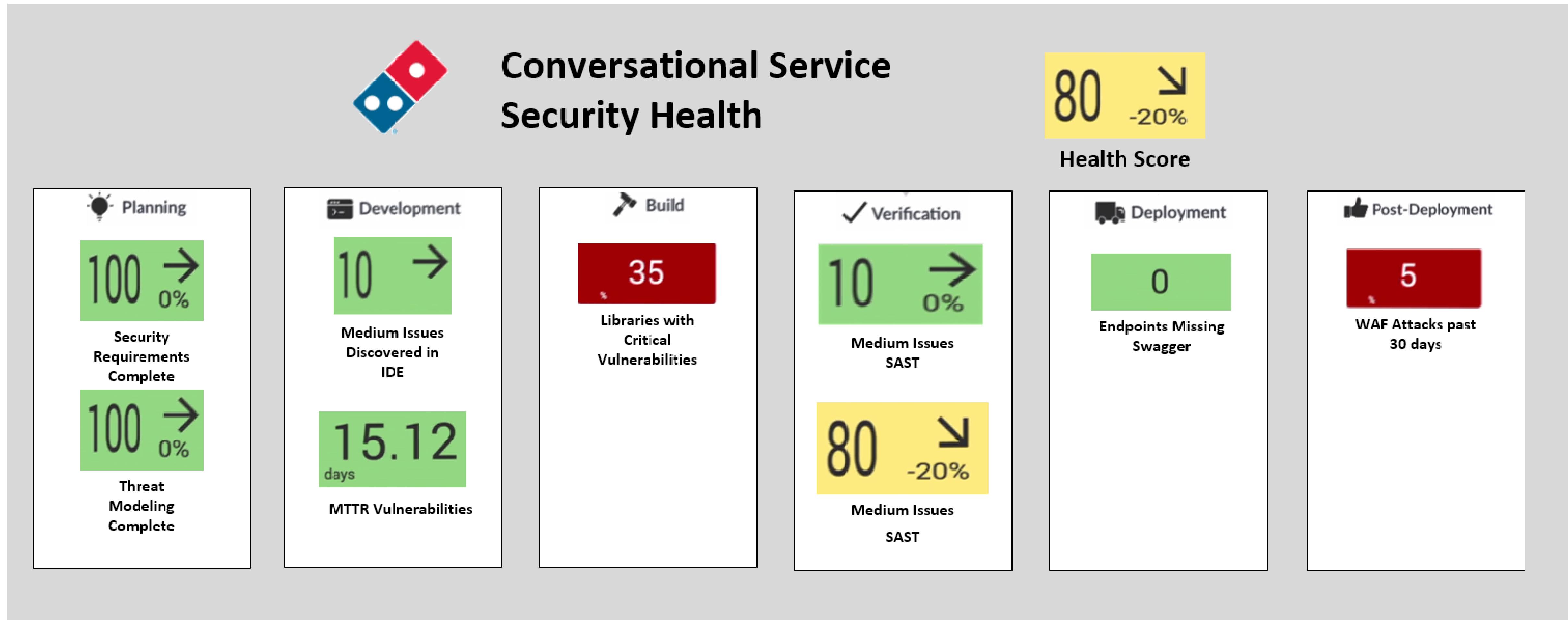


Drill-down to Tickets

Services Security Health Score



AppSec KPI Metrics Dashboard



Drill-down to Tickets

Metrics

3000 + hrs

of meetings gone per year!

\$300,000

Estimated saved per year by reduced engagement time!

75%

Risk Reduction per project!

Conclusion

- Always look to Automate
- Look to Empower Teammates
- Pick Good Partners
- Monitor and Show your Metrics

Security is Everyone's Job

Thank You

Don't forget to **rate this session**
in the .conf18 mobile app

