Designing Active Threat Defense Workflows

Michael Lang, UI designer, HIE Design Team

Design

Design

Customers

PMs

UX

Devs

Customers

PMs

UX

Devs

- User needs
- User stories
- Feature ideation

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- API
- Wireframes
- Prototypes

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- User testing
- L10N/Docs

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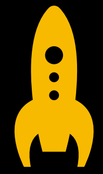
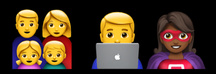


PRODUCT

- User needs
- User stories
- Feature ideation

- API
- Wireframes
- Prototypes



- Development
- User testing
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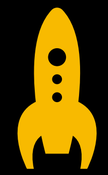
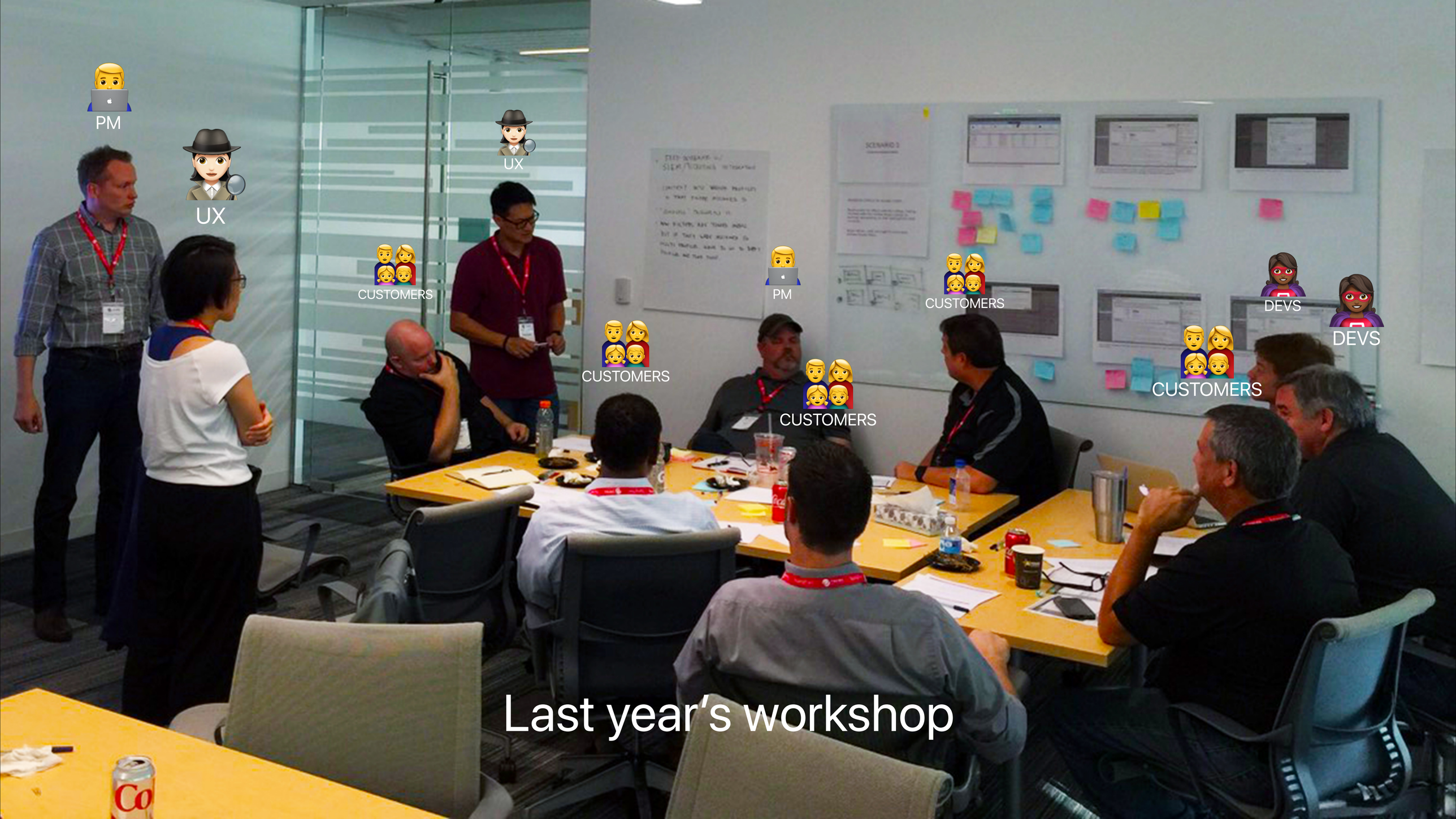
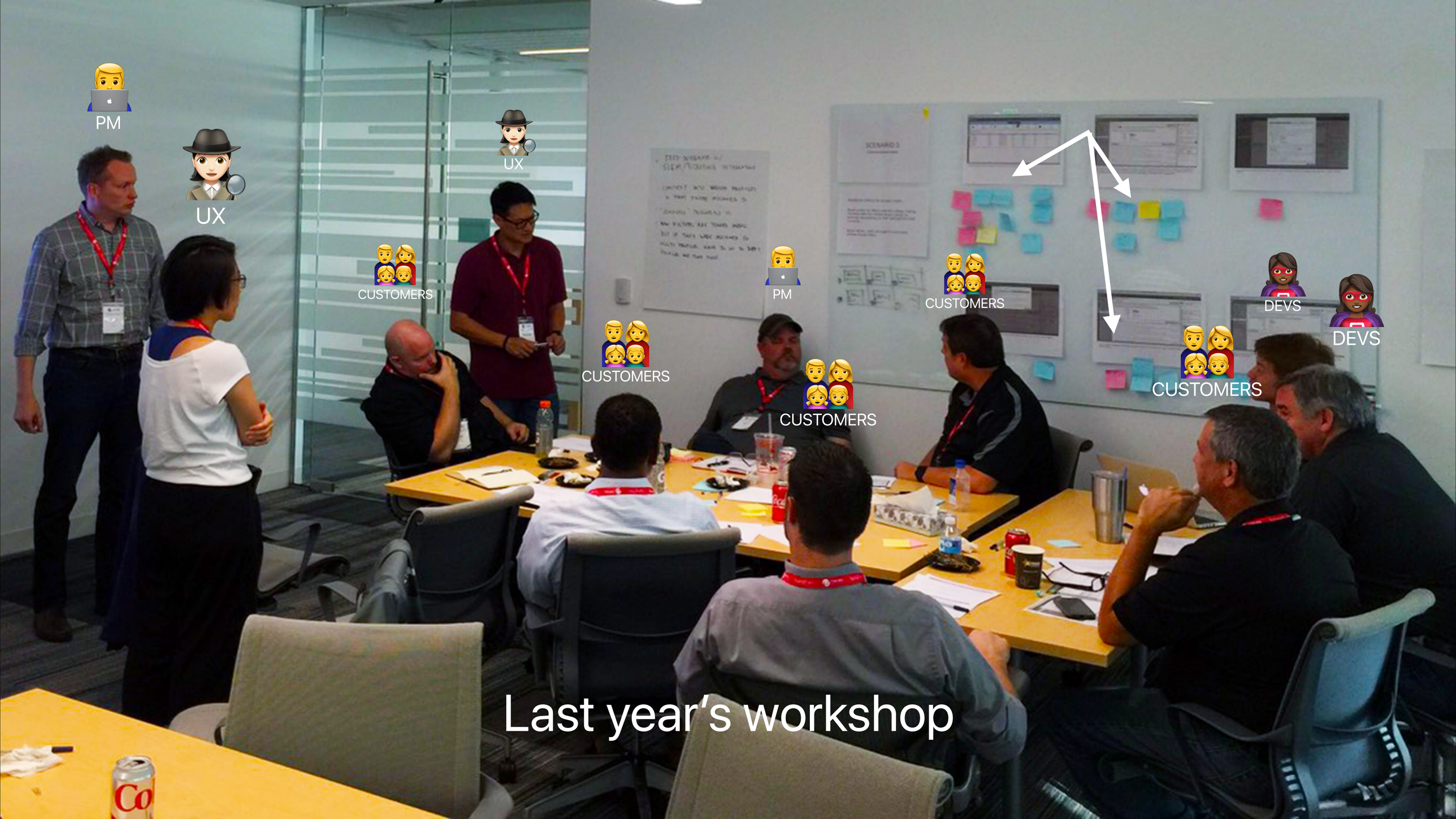


PRODUCT

✅ UX Workshop ✅ Prototype ❌ Implementation



Last year’s workshop



Last year’s workshop

Filters tuning

Performance management

SCENARIO 1

FILTER REVIEWING/TUNING

Brad enters his office with his coffee. Taking his time with his coffee, Brad notices a banner appearing on the TippingPoint SMS console.

Brad: Hmm.. well, let's get to work and review those filters.

SCENARIO 2

PERFORMANCE MANAGEMENT

Brad just got back from lunch and has decided to take a nap but notices another banner, this time in red.

Brad (offscreen): Uh oh! No time for a nap. I better look into this...

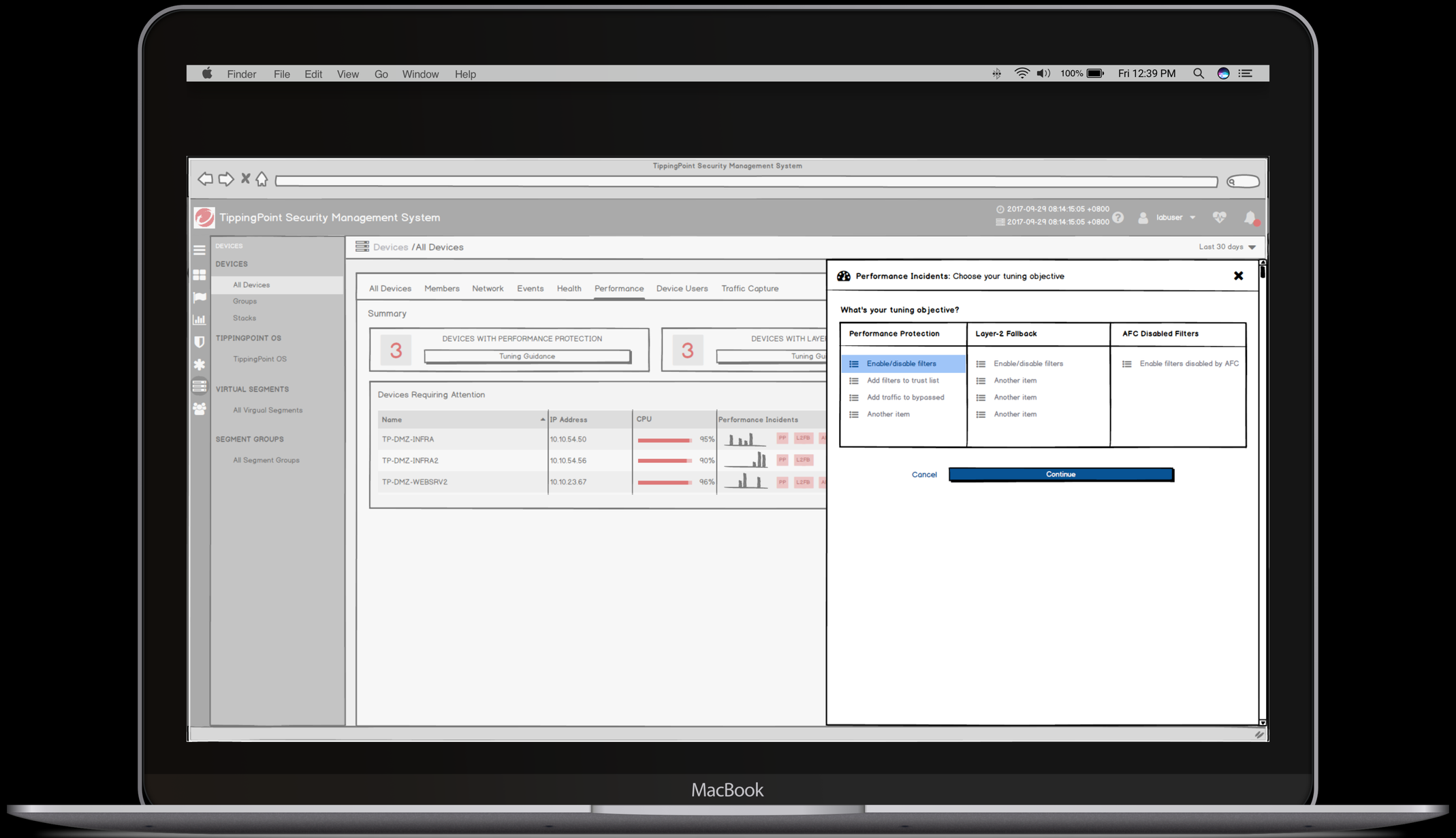
Issues

Useful

Suggestions

Brad looks at the 'Edit Filter Review Criteria' screen to see if he needs to make any changes to the automatic or manual flagging criteria.

Central Performance Management


Finder File Edit View Go Window Help
100% Fri 12:39 PM
TippingPoint Security Management System
TippingPoint Security Management System
2017-09-29 08:14:15.05 +0800
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labuser
DEVICES
DEVICES
All Devices
Groups
Stacks
TIPPINGPOINT OS
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All Virgual Segments
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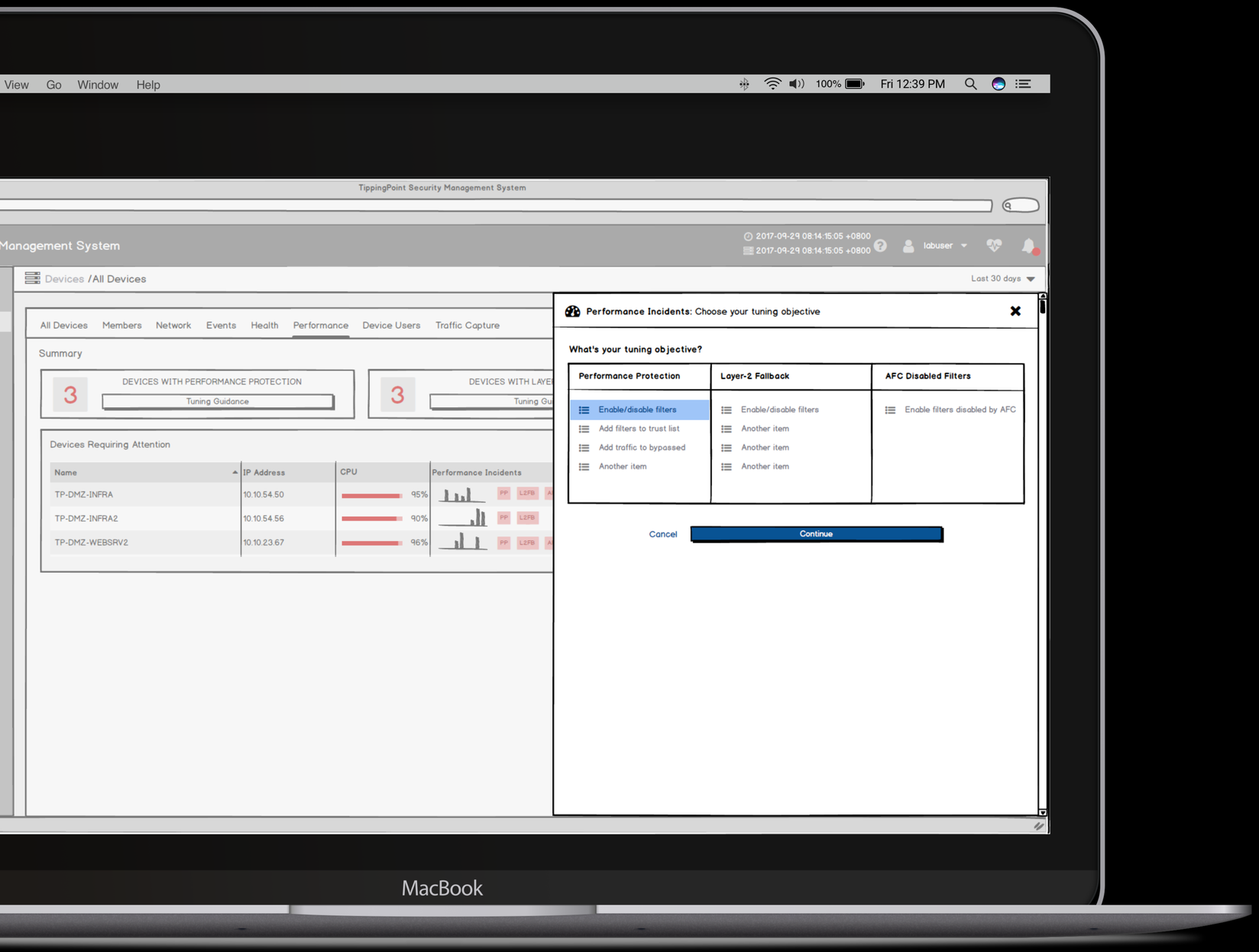
All Devices Members Network Events Health Performance Device Users Traffic Capture
Summary
3
DEVICES WITH PERFORMANCE PROTECTION
Tuning Guidance
3
Devices Requiring Attention
Name
IP Address
CPU
Performance Incidents
TP-DMZ-INFRA
10.10.54.50
95%
TP-DMZ-INFRA2
10.10.54.56
90%
TP-DMZ-WEBSRV2
10.10.23.67
96%
Performance Incidents: Choose your tuning objective
What's your tuning objective?
Performance Protection
Enable/disable filters
Add filters to trust list
Add traffic to bypassed
Another item
Layer-2 Fallback
Enable/disable filters
Another item
Another item
Another item
AFC Disabled Filters
Enable filters disabled by AFC
Cancel
Continue
MacBook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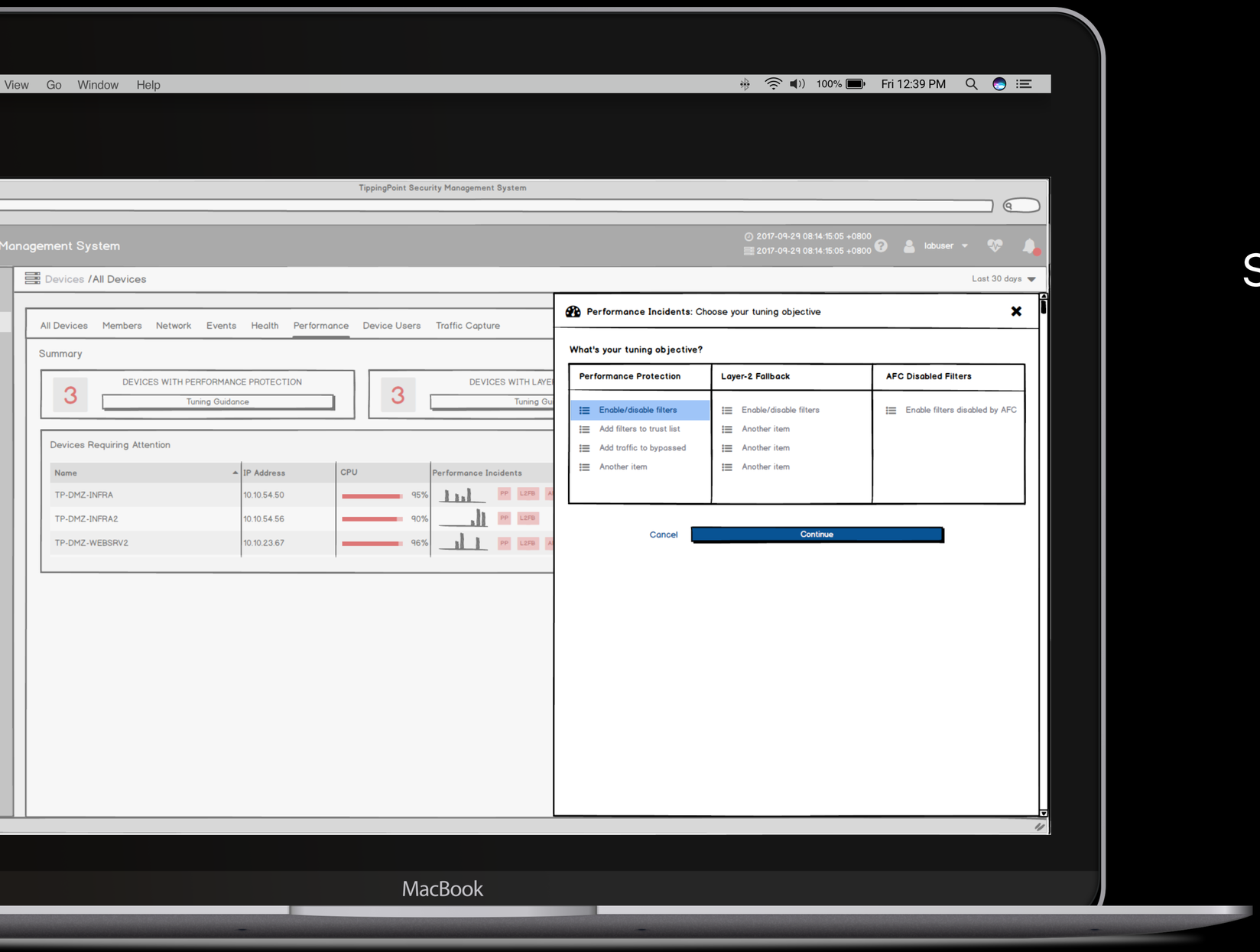
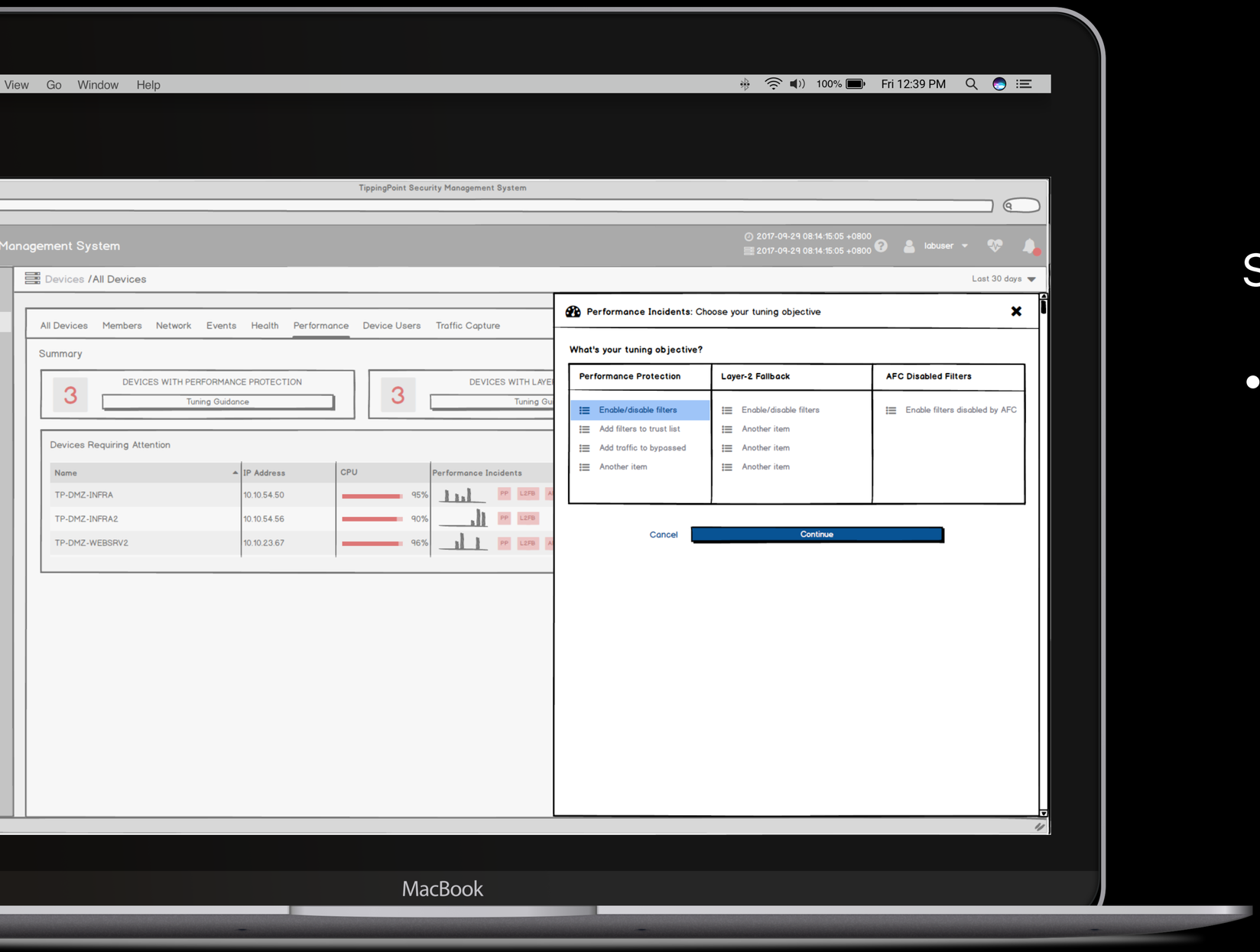
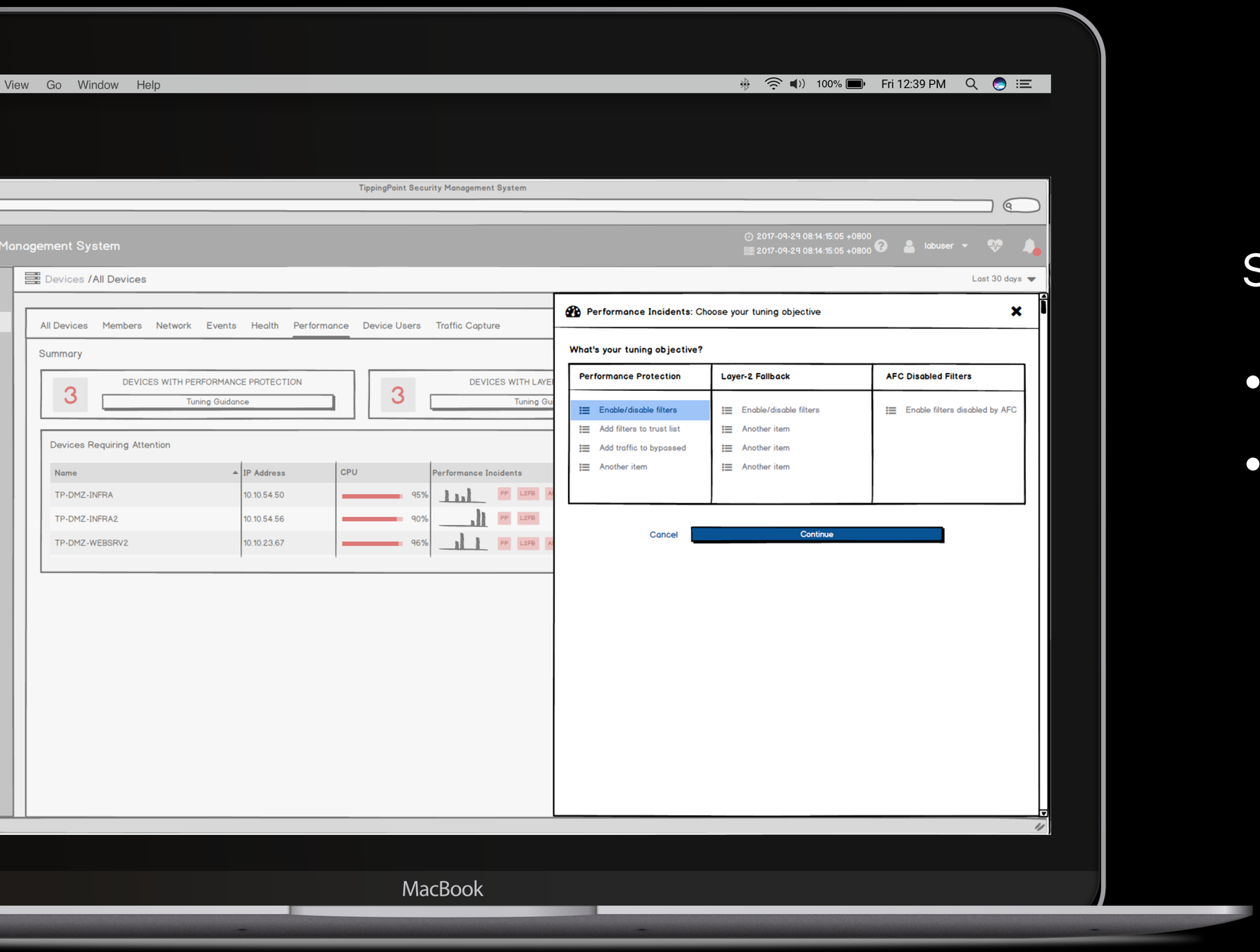


Sketch focused on:



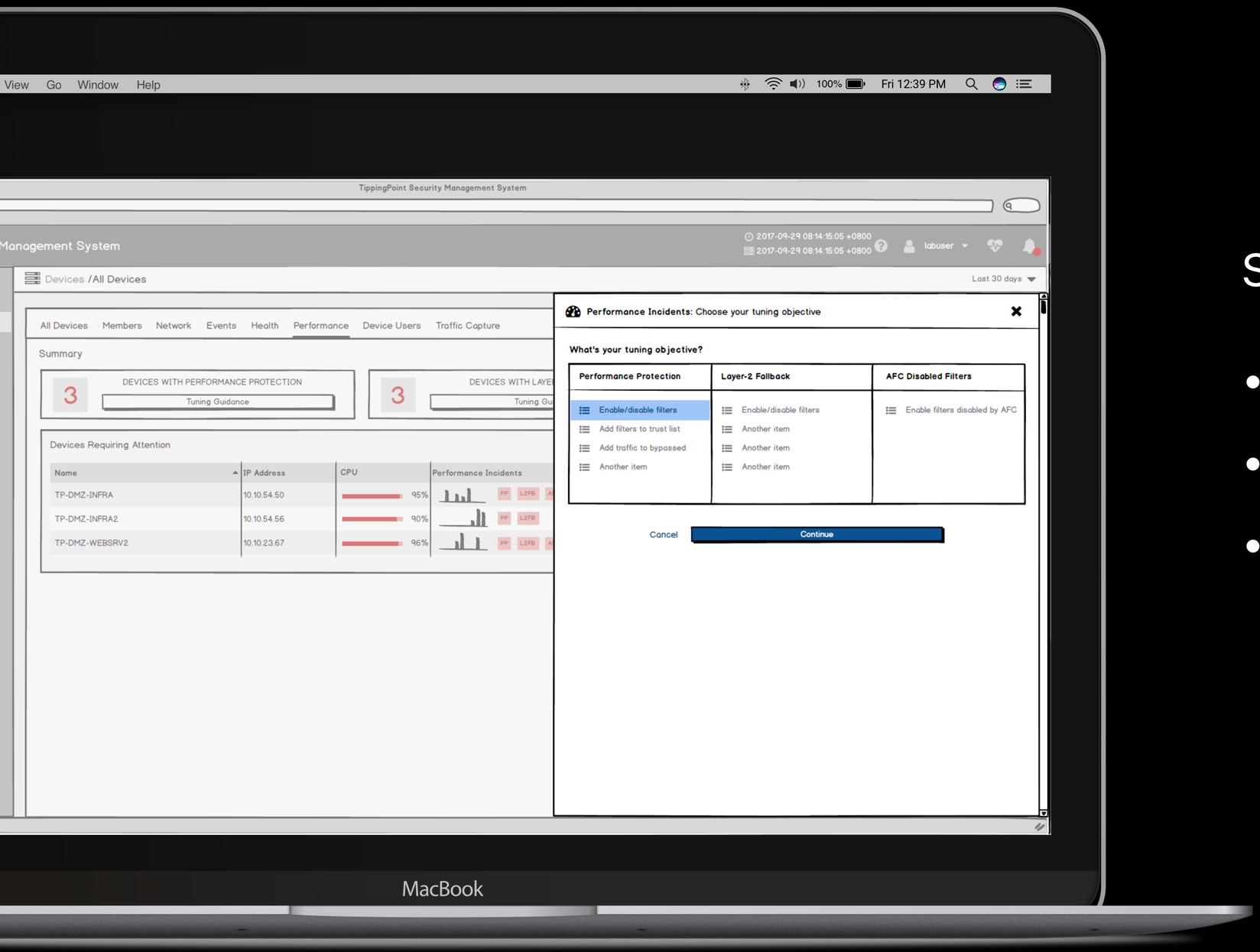
Sketch focused on:

- Devices with performance protection



Sketch focused on:

- Devices with performance protection
- Devices with L2FB disabled filters



Sketch focused on:

- Devices with performance protection
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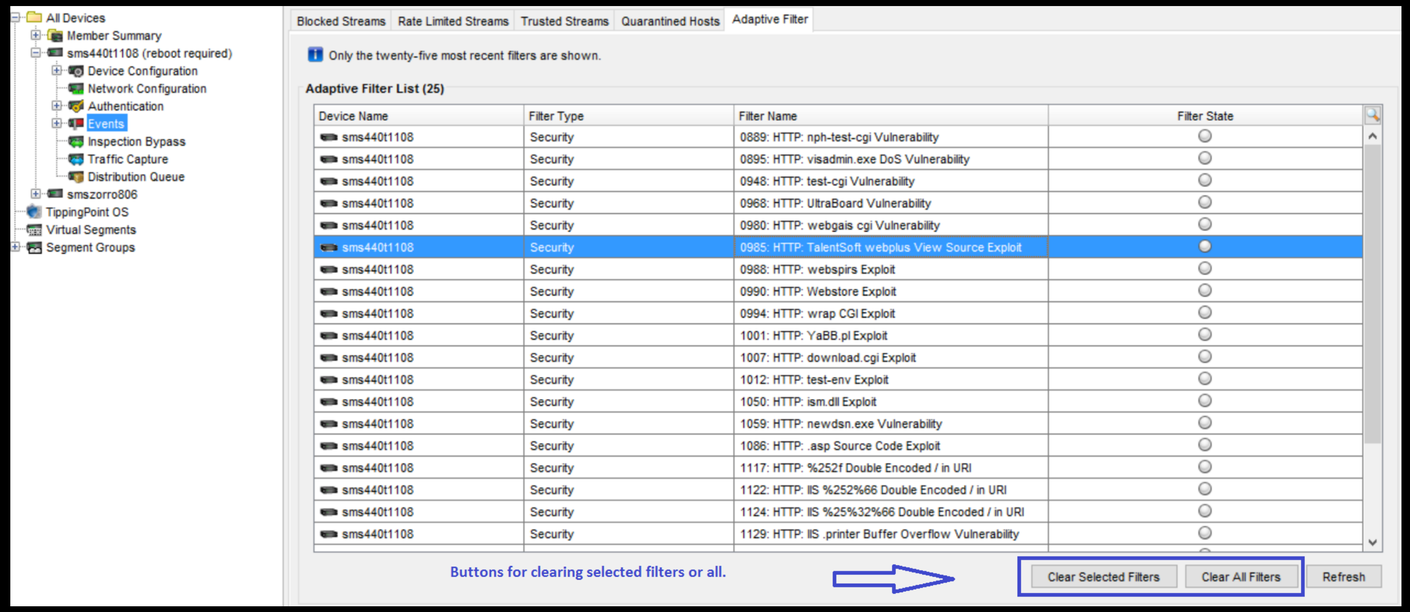
- Devices with AFC disabled filters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sms440t1108 Security 0990: HTTP: Webstore Exploit
sms440t1108 Security 0994: HTTP: wrap CGI Exploit
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sms440t1108 Security 1007: HTTP: download.cgi Exploit
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sms440t1108 Security 1086: HTTP: .asp Source Code Exploit
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Buttons for clearing selected filters or all.
Clear Selected Filters
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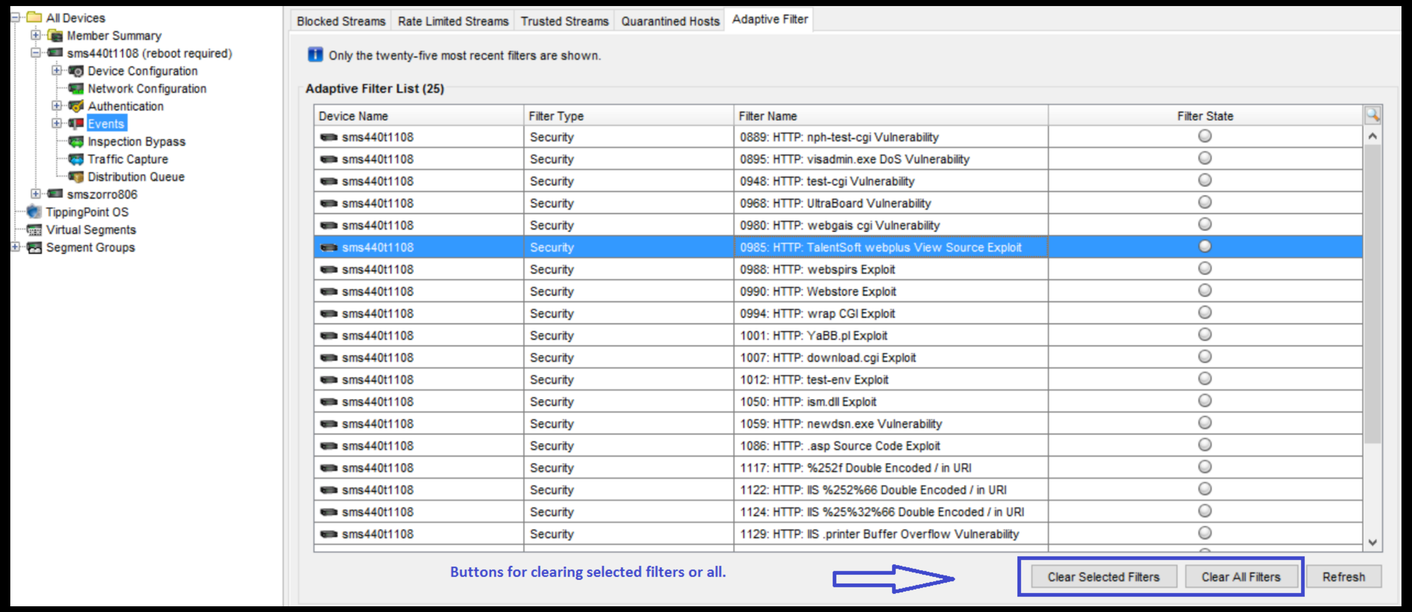
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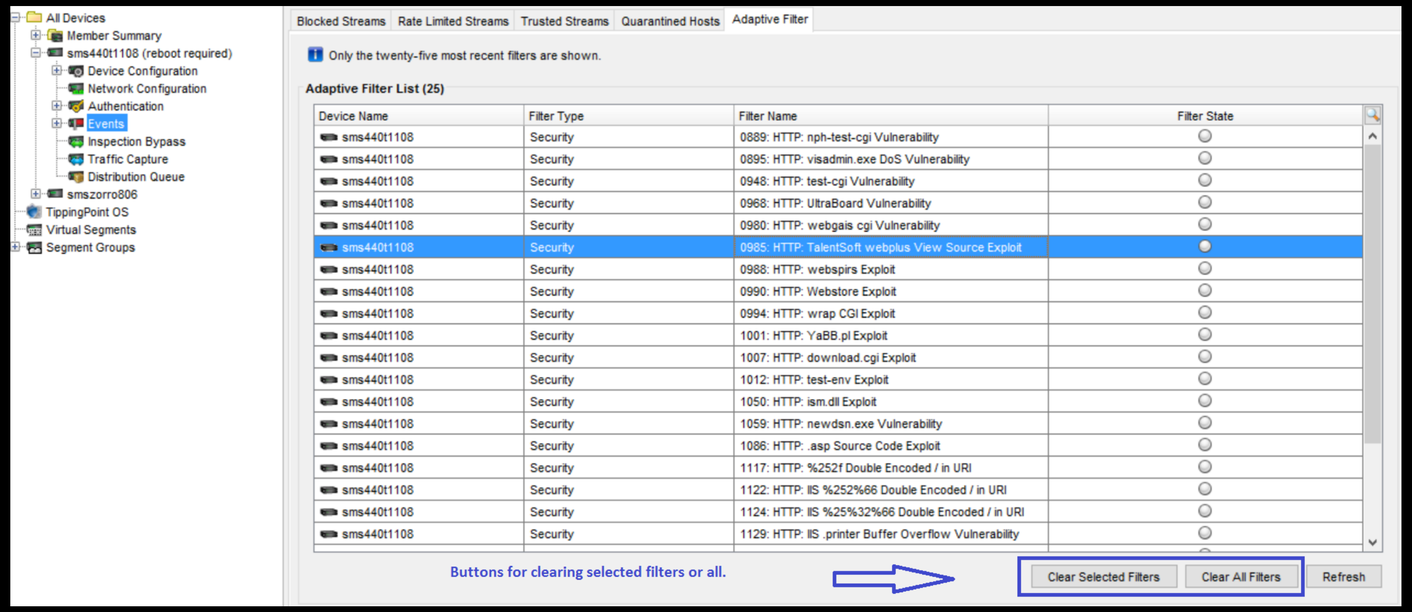

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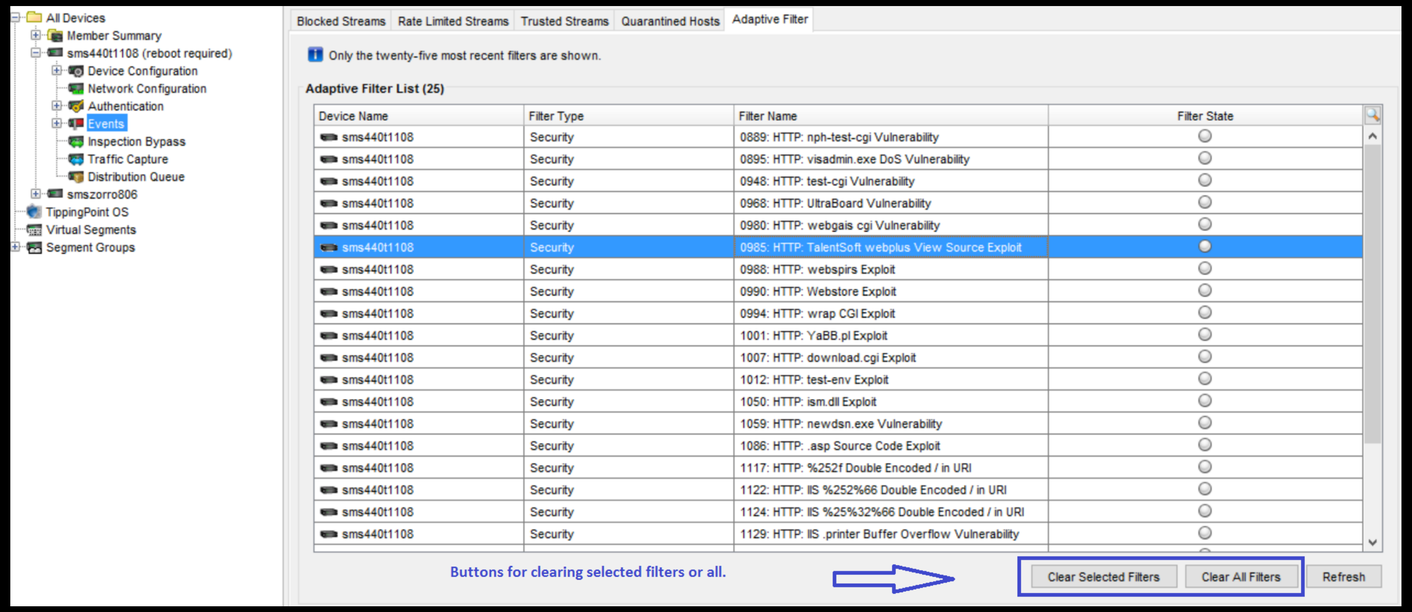
- Incident reports



CPM

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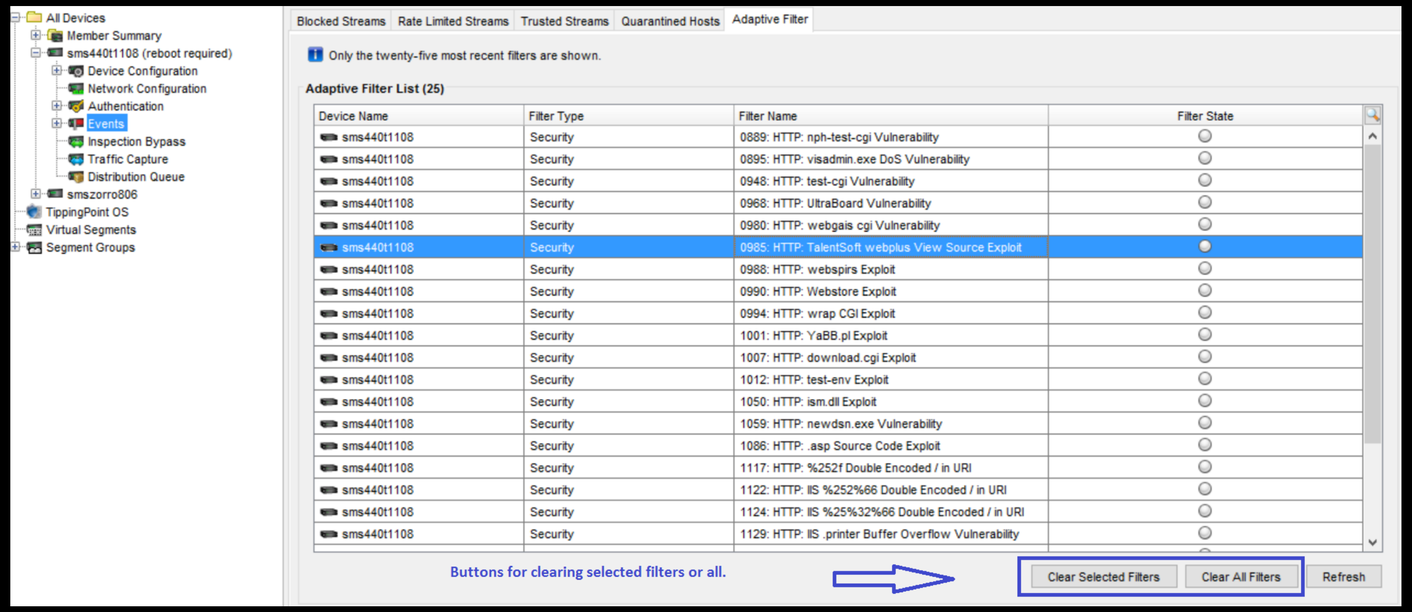
- Stats for IPS/TPS devices



CPM

- Incident reports
- Stats for IPS/TPS devices
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PERFORMANCE


Debriefing

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NEWSBANK:: Hackers build a 'Master Key' that unlocks million...	Thu 4/26/18, 4:38 AM
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NEWSBANK :: Equifax Shares More Details About Breach	Mon 9/18/17, 3:19 AM
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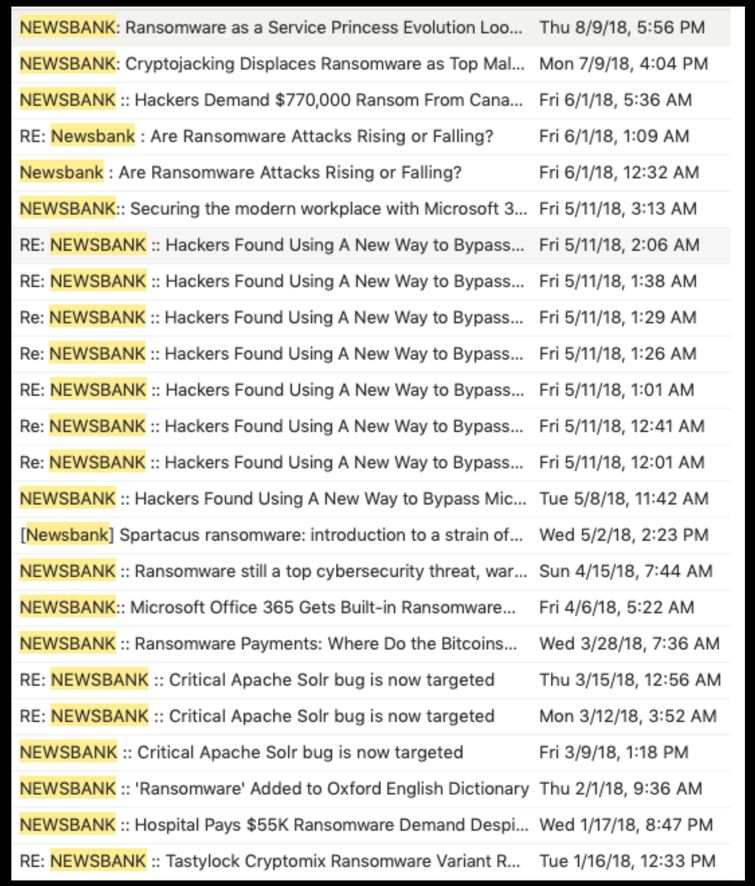

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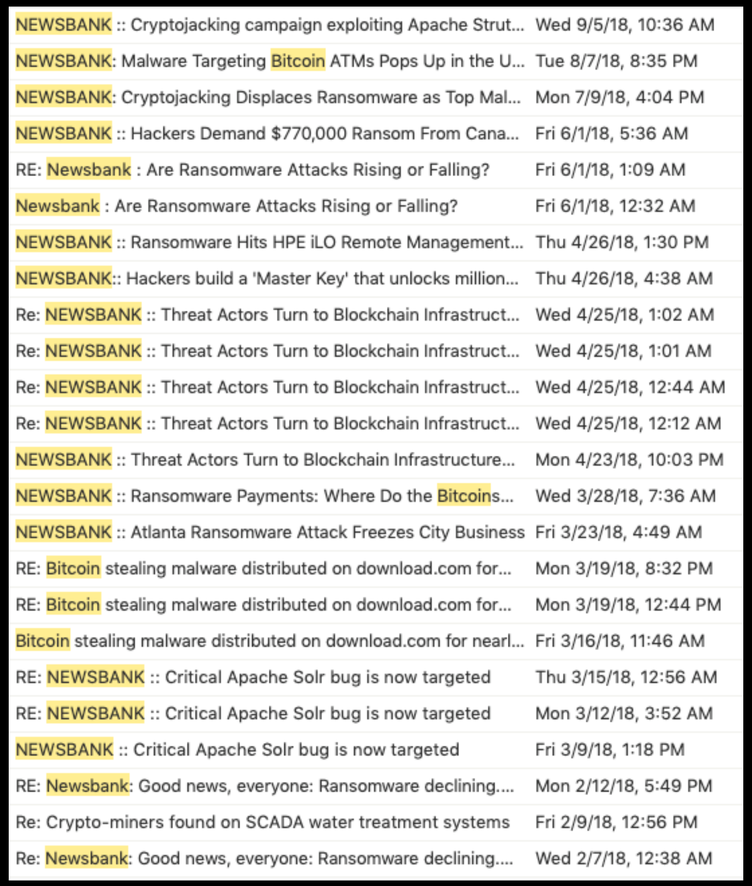

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NEWSBANK :: Equifax CIO, CSO Step Down	Fri 9/15/17, 7:59 PM
NEWSBANK:: FLASH MC-000086-MW TLP: AMBER, Apache...	Fri 9/15/17, 2:49 PM
Re: NEWSBANK: RE: Giant Equifax data breach: 143 million pe...	Thu 9/14/17, 2:55 AM
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NEWSBANK :: Hackers Exploit Recently Patched Apache Strut...	Fri 9/8/17, 10:31 AM
RE: NEWSBANK :: Exploit Available for Critical Apache Struts V...	Fri 9/8/17, 10:05 AM
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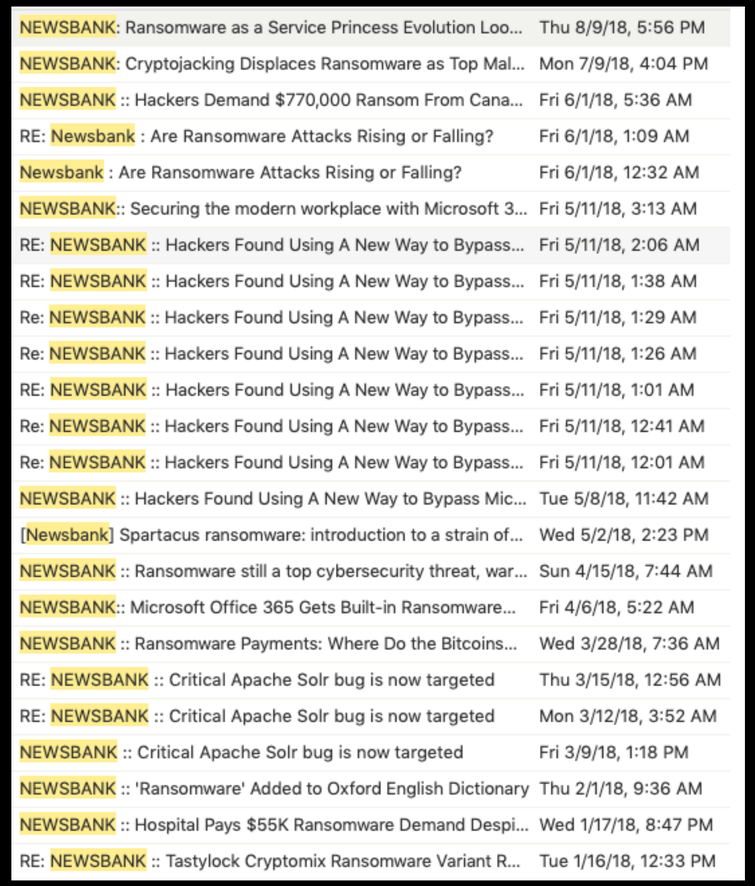

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NEWSBANK:: Securing the modern workplace with Microsoft 3...	Fri 5/11/18, 3:13 AM
RE: NEWSBANK :: Hackers Found Using A New Way to Bypass...	Fri 5/11/18, 2:06 AM
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[Newsbank] Spartacus ransomware: introduction to a strain of...	Wed 5/2/18, 2:23 PM
NEWSBANK :: Ransomware still a top cybersecurity threat, war...	Sun 4/15/18, 7:44 AM
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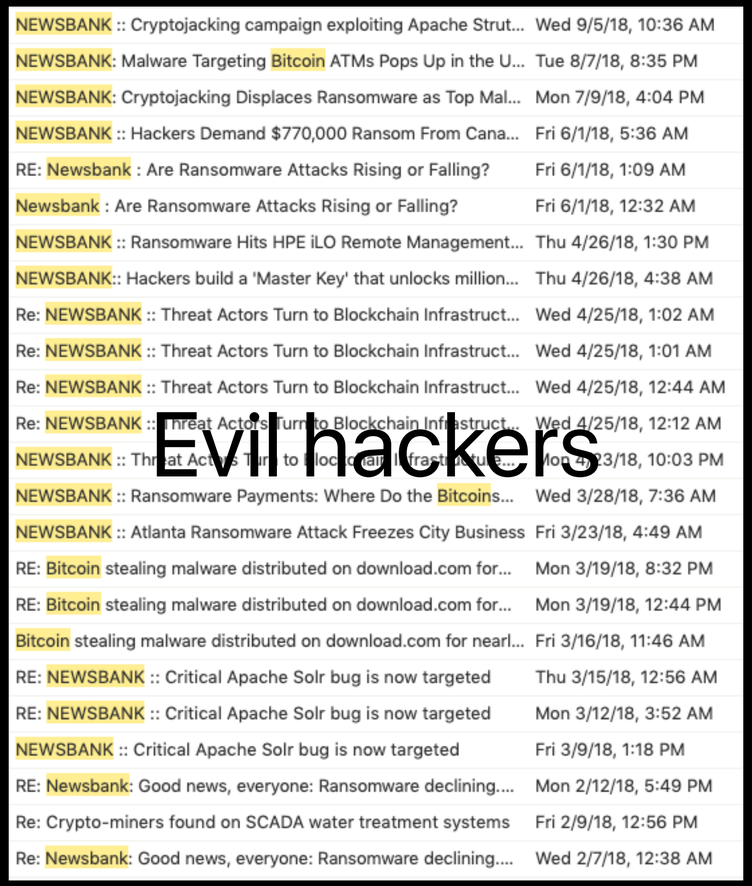
NEWSBANK :: 'Ransomware' Added to Oxford English Dictionary	Thu 2/1/18, 9:36 AM
NEWSBANK :: Hospital Pays $55K Ransomware Demand Despi...	Wed 1/17/18, 8:47 PM
RE: NEWSBANK :: Tastylock Cryptomix Ransomware Variant R...	Tue 1/16/18, 12:33 PM



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Evil hackers

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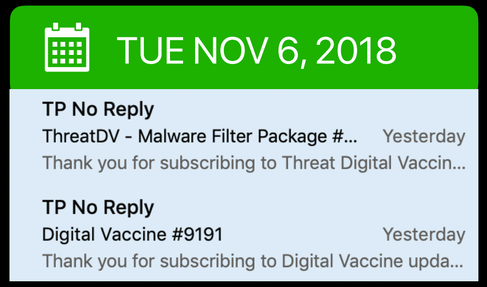

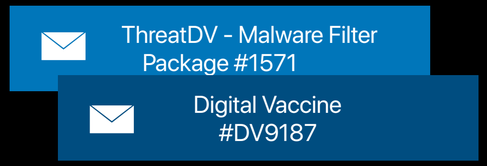

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Review

ThreatDV - Malware Filter Package #1571

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Read release notes

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Search all filters enabled by default

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Any filters with rec'd settings of Block?

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Any filters with rec'd settings of Block?

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- Navigate into the Events tab

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- Monitor events of the filters

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- Document changes in spreadsheet

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- Decide: Yes or No accept rec'd settings
- Enable filters put dates/ comment in filter field

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WEEKEND

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FRI NOV 9, 2018

WEEKEND

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Attend UX Workshop
Find my replacement
Hope STG==PROD

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Decide: Yes or No accept rec'd settings	Enable filters put dates/ comment in filter field	Deploy new DV profiles update to Prod

Current Workflow

TUE NOV 6, 2018

TP No Reply
ThreatDV - Malware Filter Package #... Yesterday
Thank you for subscribing to Threat Digital Vaccin...

TP No Reply
Digital Vaccine #9191 Yesterday
Thank you for subscribing to Digital Vaccine upda...

WED NOV 7, 2018

THU NOV 8, 2018

FRI NOV 9, 2018

WEEKEND

MON NOV 12, 2018

Review

ThreatDV - Malware Filter Package #1571

Digital Vaccine #DV9187

Read release notes	Search all filters enabled by default	Read individual filter descriptions
Any filters with rec'd settings of Block?	Are rec'd settings disruptive to my env?	Put filters into "trial" mode for x wks?
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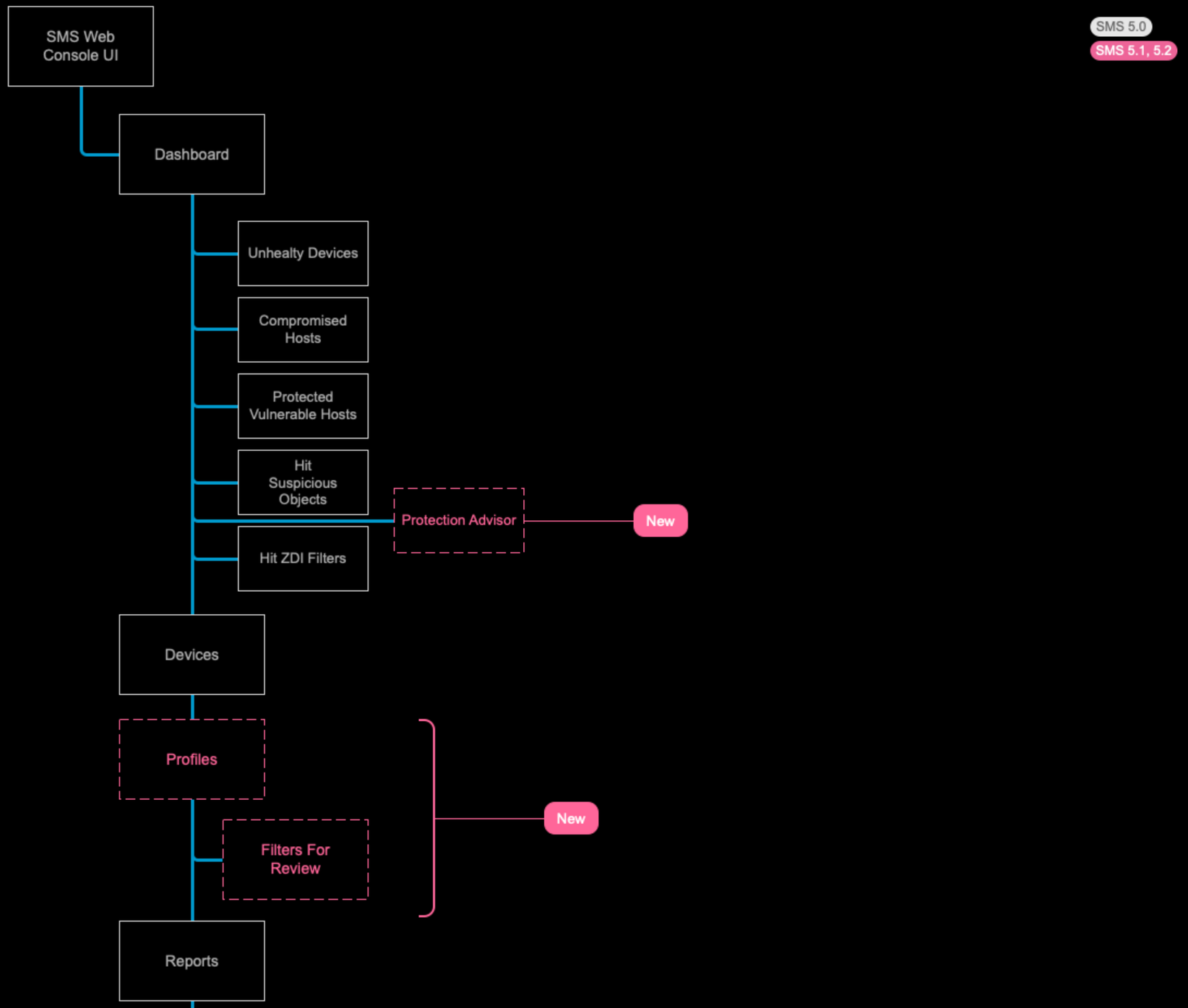
ThreatDV - Malware Filter Package #1571

Digital Vaccine #DV9191

Repeat


SMS 5.0
SMS 5.1, 5.2
SMS Web Console UI
Dashboard
Unhealty Devices
Compromised Hosts
Protected Vulnerable Hosts
Hit Suspicious Objects
Protection Advisor
New
Hit ZDI Filters
Devices
Profiles
Filters For Review
New
Reports

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SMS 5.1, 5.2

SMS Web Console UI

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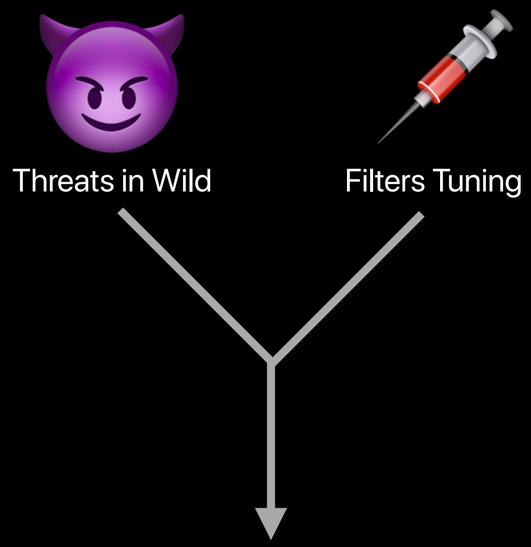
Filters for Review

Reports



Active Threat Defense

New

Looking for _____?

Looking for _____?

Optionsbleed HTTP Vulnerability

Looking for _____?

Optionsbleed HTTP Vulnerability

Looking for _____?

Optionsbleed HTTP Vulnerability

Apache Struts (Equifax data breach)

Looking for _____?

Optionsbleed HTTP Vulnerability

Apache Struts (Equifax data breach)

Looking for _____?

Optionsbleed HTTP Vulnerability

Apache Struts (Equifax data breach)

Heartbleed Open SSL

Looking for _____?

Optionsbleed HTTP Vulnerability

Apache Struts (Equifax data breach)

Heartbleed Open SSL

WannaCry

Looking for _____?

Optionsbleed HTTP Vulnerability

Apache Struts (Equifax data breach)

Heartbleed Open SSL

WannaCry

Coinminer

Looking for _____?

Optionsbleed HTTP Vulnerability

Apache Struts (Equifax data breach)

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WannaCry

Coinminer

Mirai Botnet

Looking for _____?

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Coinminer

Mirai Botnet

BadRabbit

Looking for _____?

Optionsbleed HTTP Vulnerability

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Heartbleed Open SSL

WannaCry

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Mirai Botnet

BadRabbit

/ Zero-day Vulnerabilities

Looking for _____?

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Apache Struts (Equifax data breach)

Heartbleed Open SSL

WannaCry

Coinminer

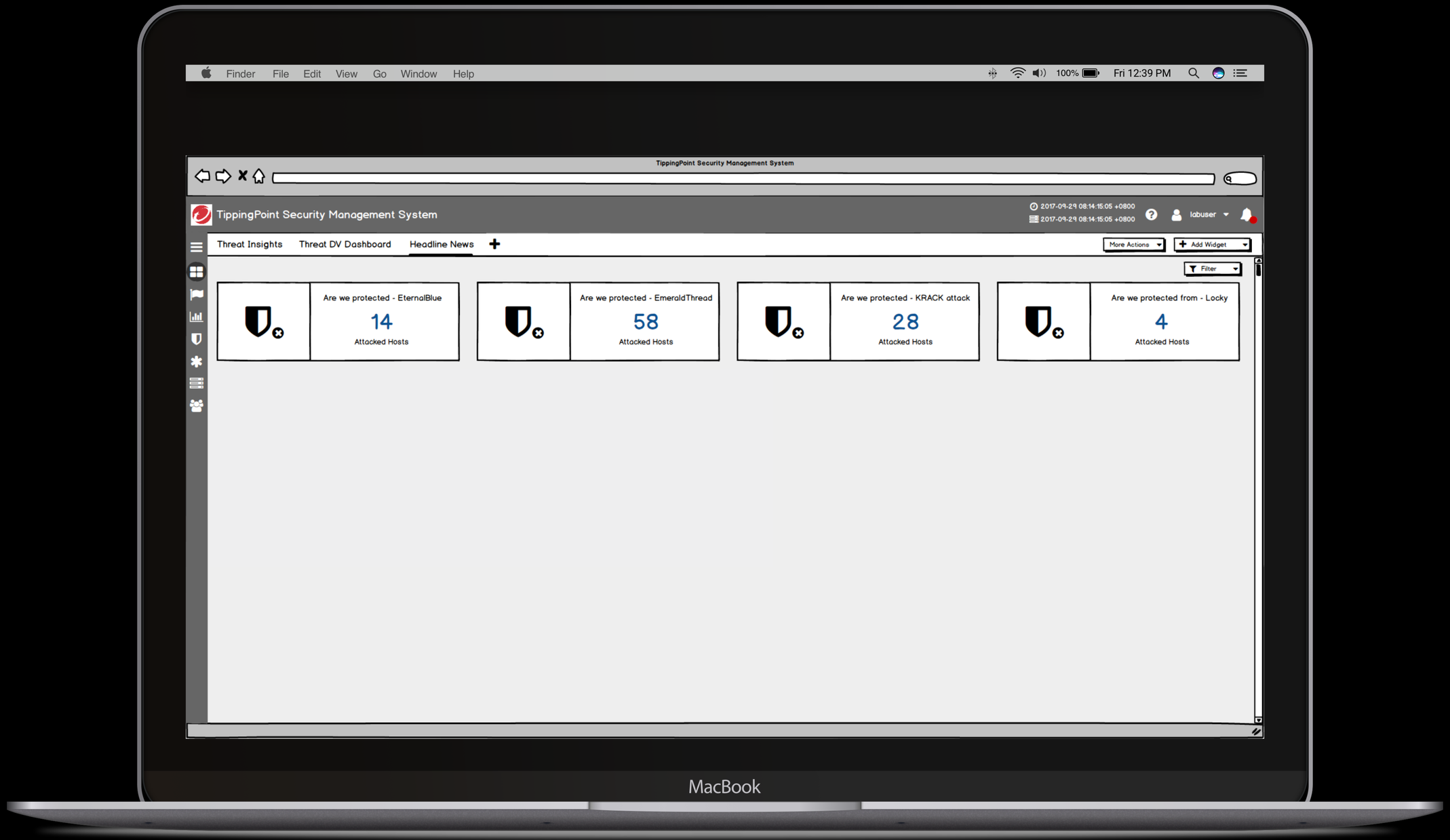
Mirai Botnet

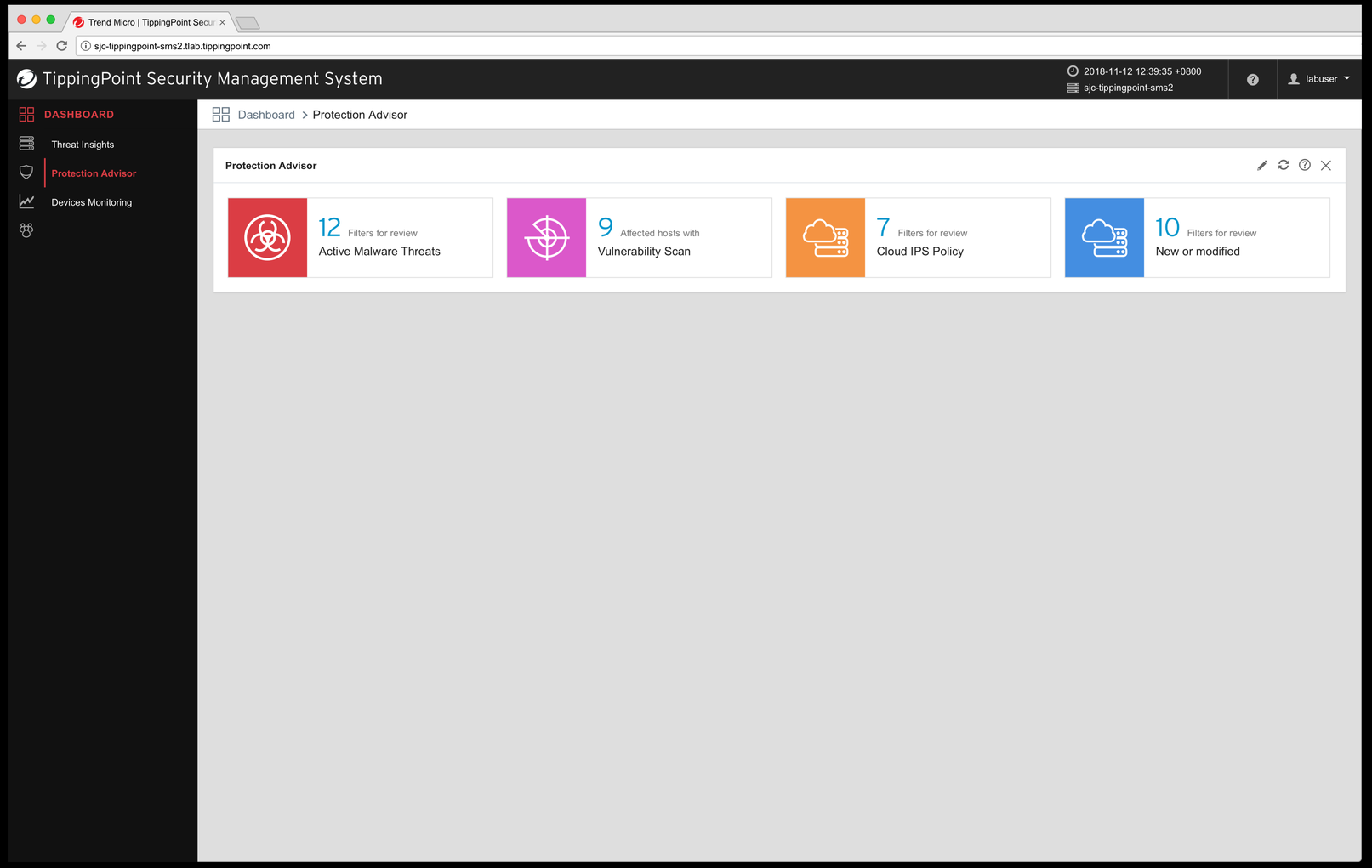
BadRabbit

/ Zero-day Vulnerabilities

TREND MICRO SMART Protection Network™

Allow tuning recommendations from vulnerability and active malware using filter(s) _____


Finder File Edit View Go Window Help
100% Fri 12:39 PM
TippingPoint Security Management System
TippingPoint Security Management System
2017-09-29 08:14:15:05 +0800
2017-09-29 08:14:15:05 +0800
labuser
Threat Insights
Threat DV Dashboard
Headline News
More Actions
Add Widget
Filter
Are we protected - EternalBlue
14
Attacked Hosts
Are we protected - EmeraldThread
58
Attacked Hosts
Are we protected - KRACK attack
28
Attacked Hosts
Are we protected from - Locky
4
Attacked Hosts
MacBook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TippingPoint Security Management System
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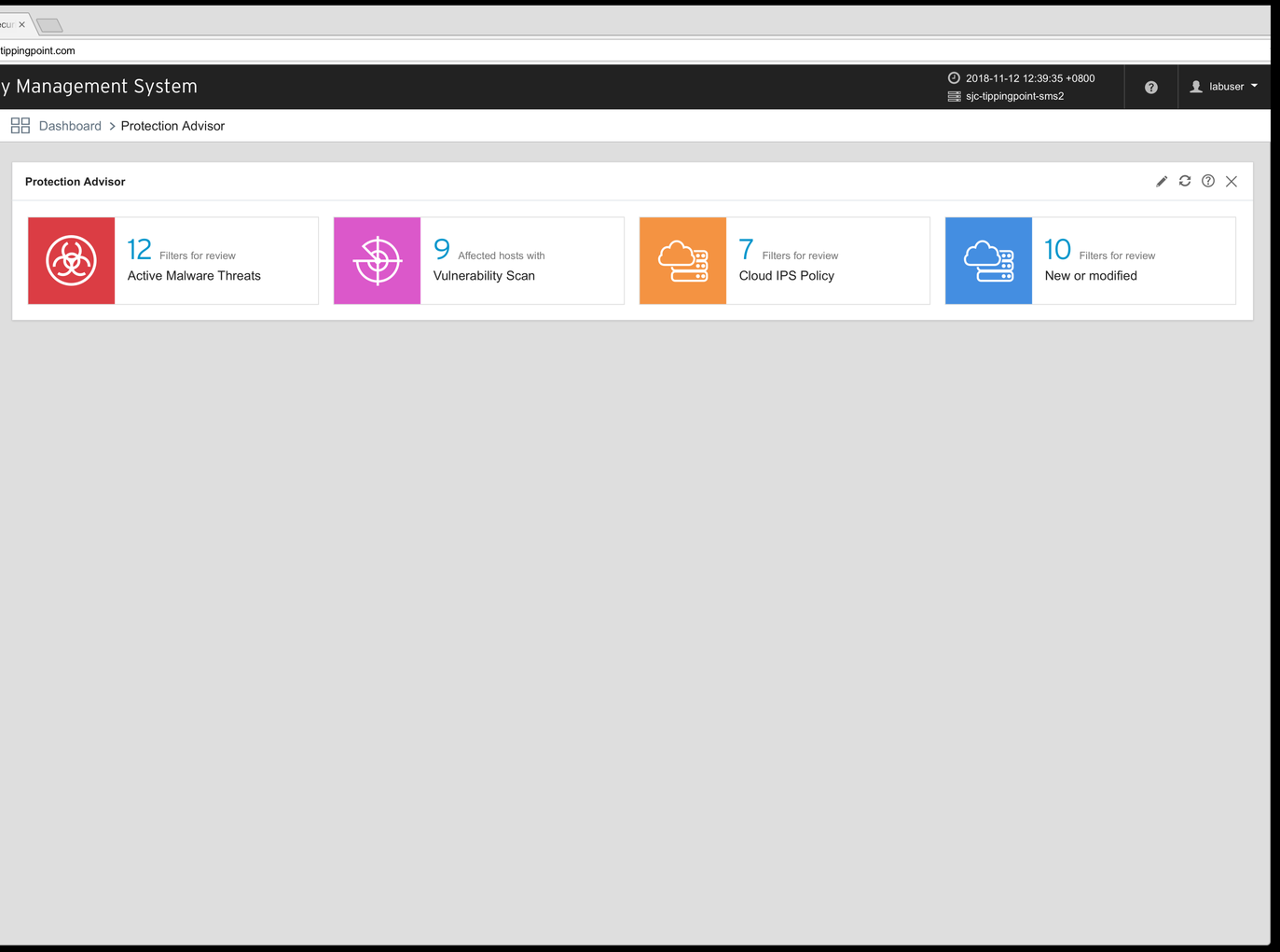
sjc-tippingpoint-sms2
labuser
DASHBOARD
Threat Insights
Protection Advisor
Devices Monitoring
Dashboard > Protection Advisor
Protection Advisor
12 Filters for review
Active Malware Threats
9 Affected hosts with
Vulnerability Scan
7 Filters for review
Cloud IPS Policy
10 Filters for review
New or modified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2018-11-12 12:39:35 +0800
sjc-tippingpoint-sms2
labuser
Dashboard > Protection Advisor
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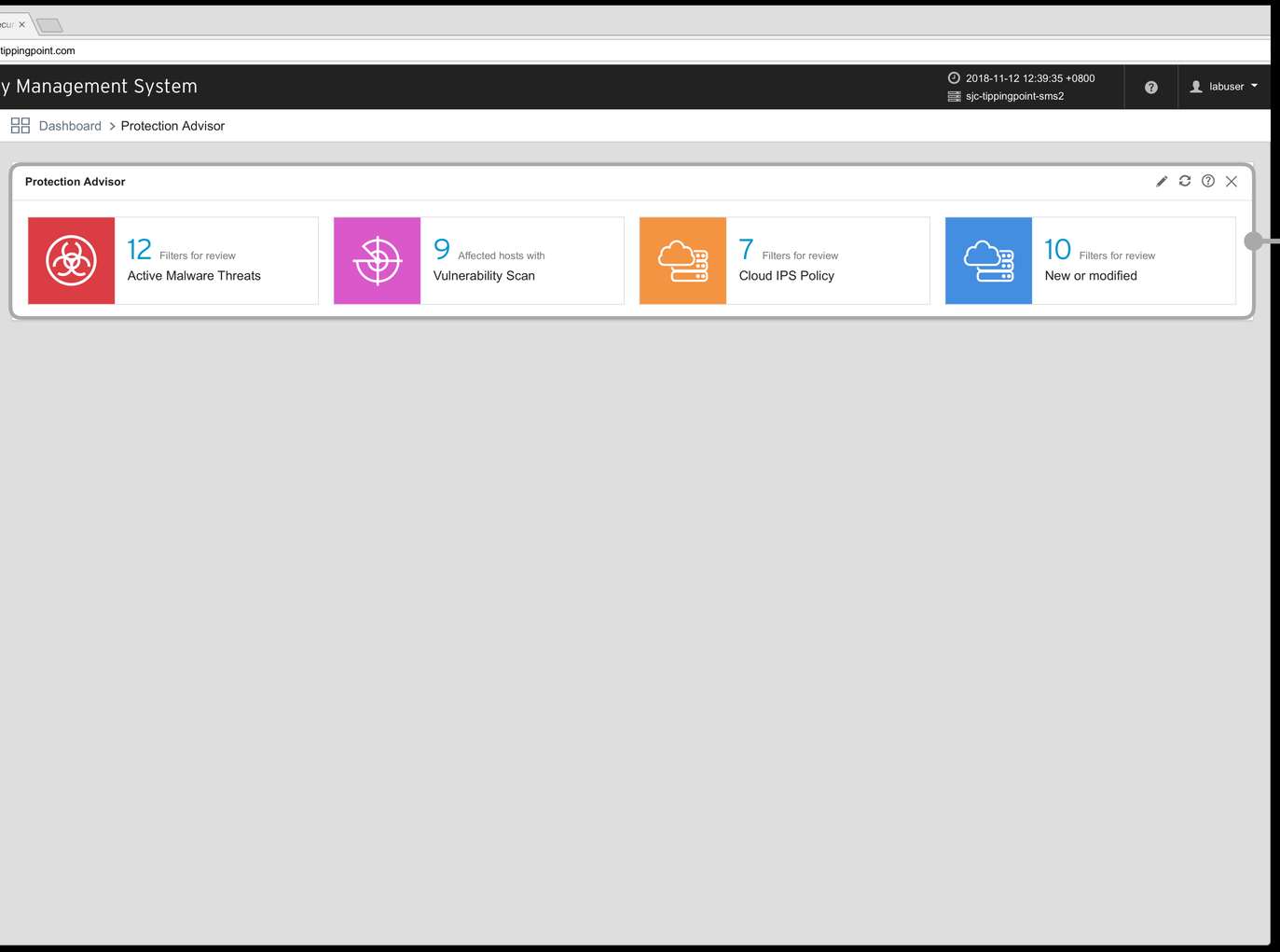
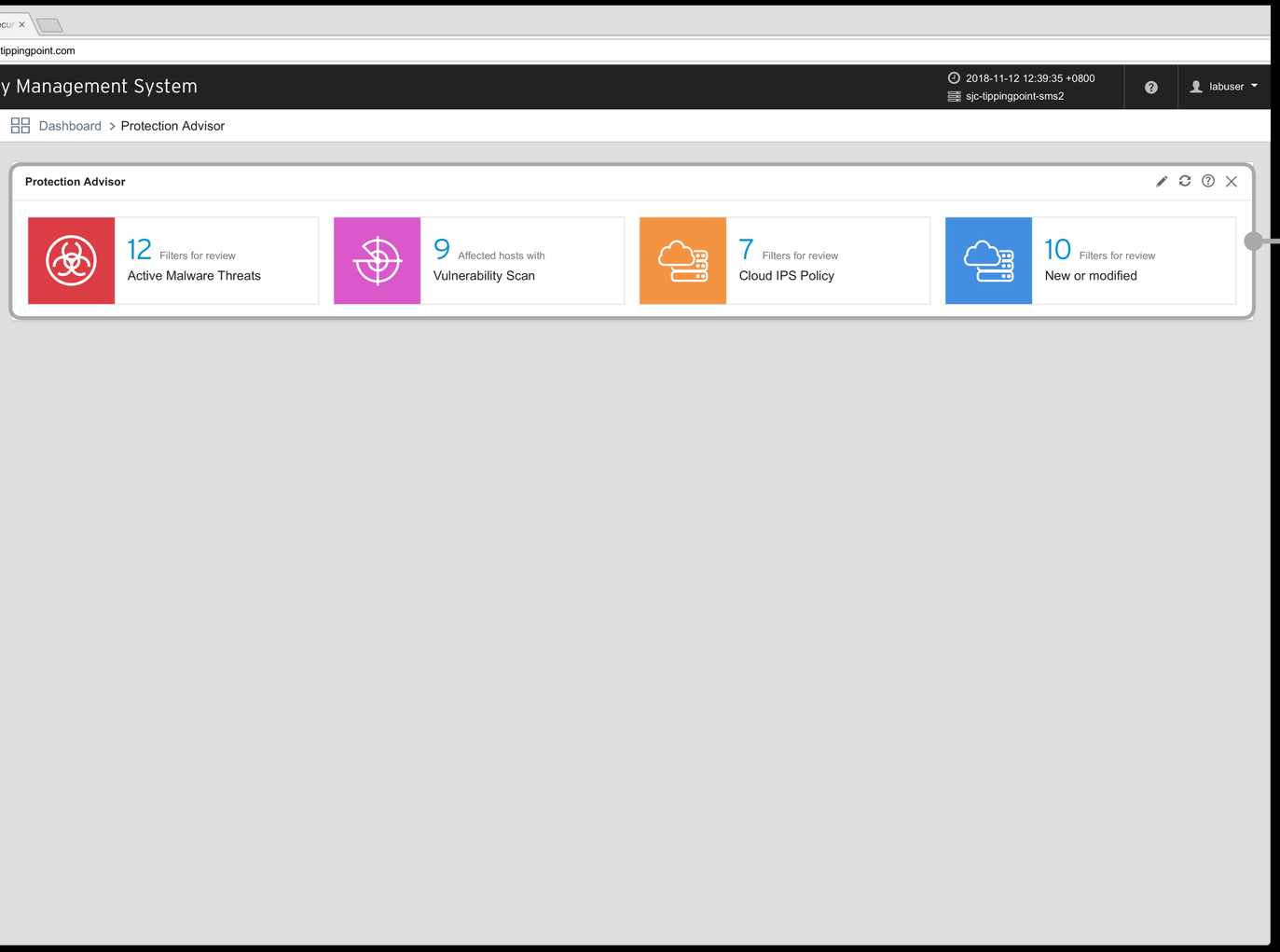
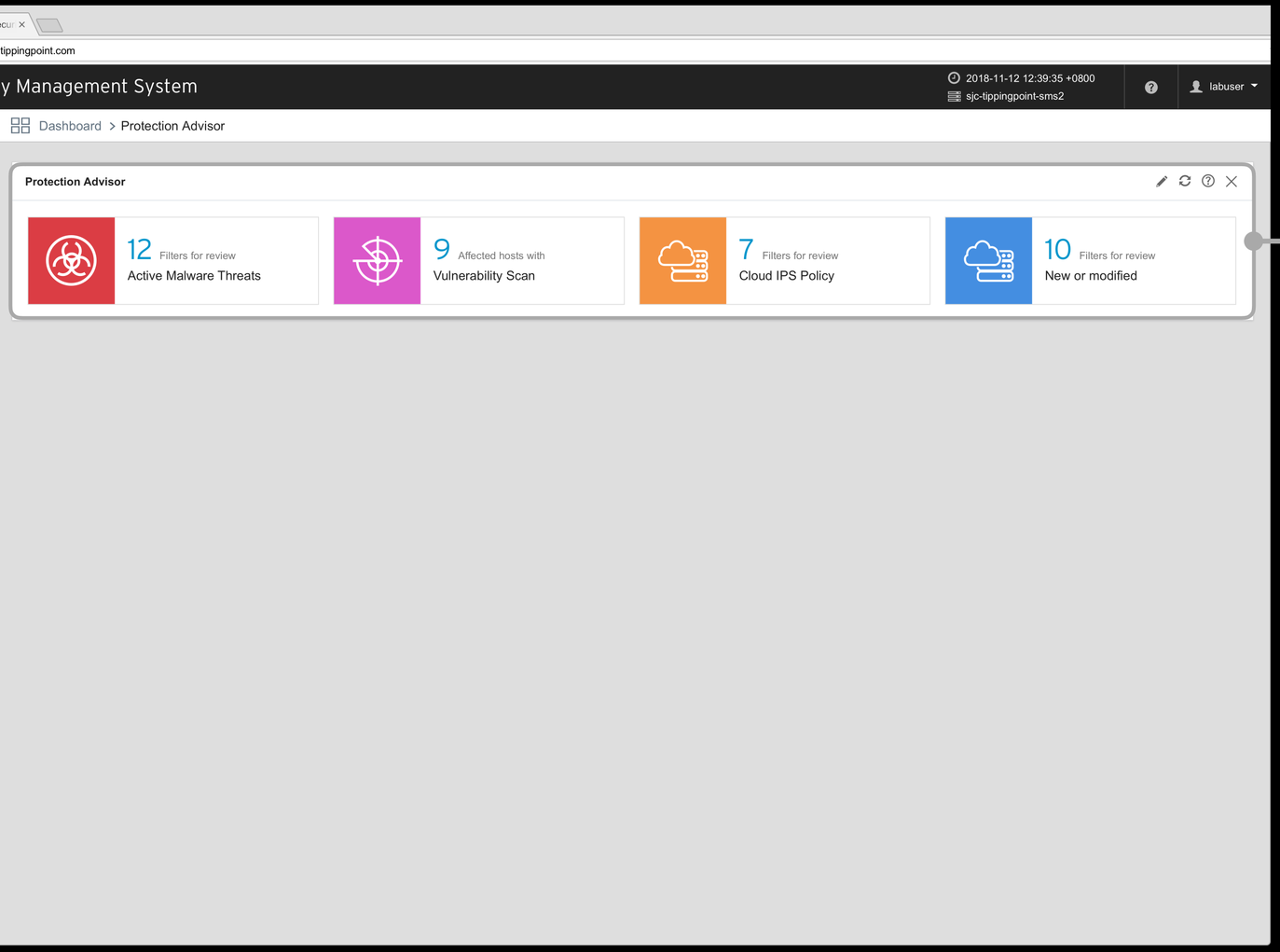


Active Threat Defense



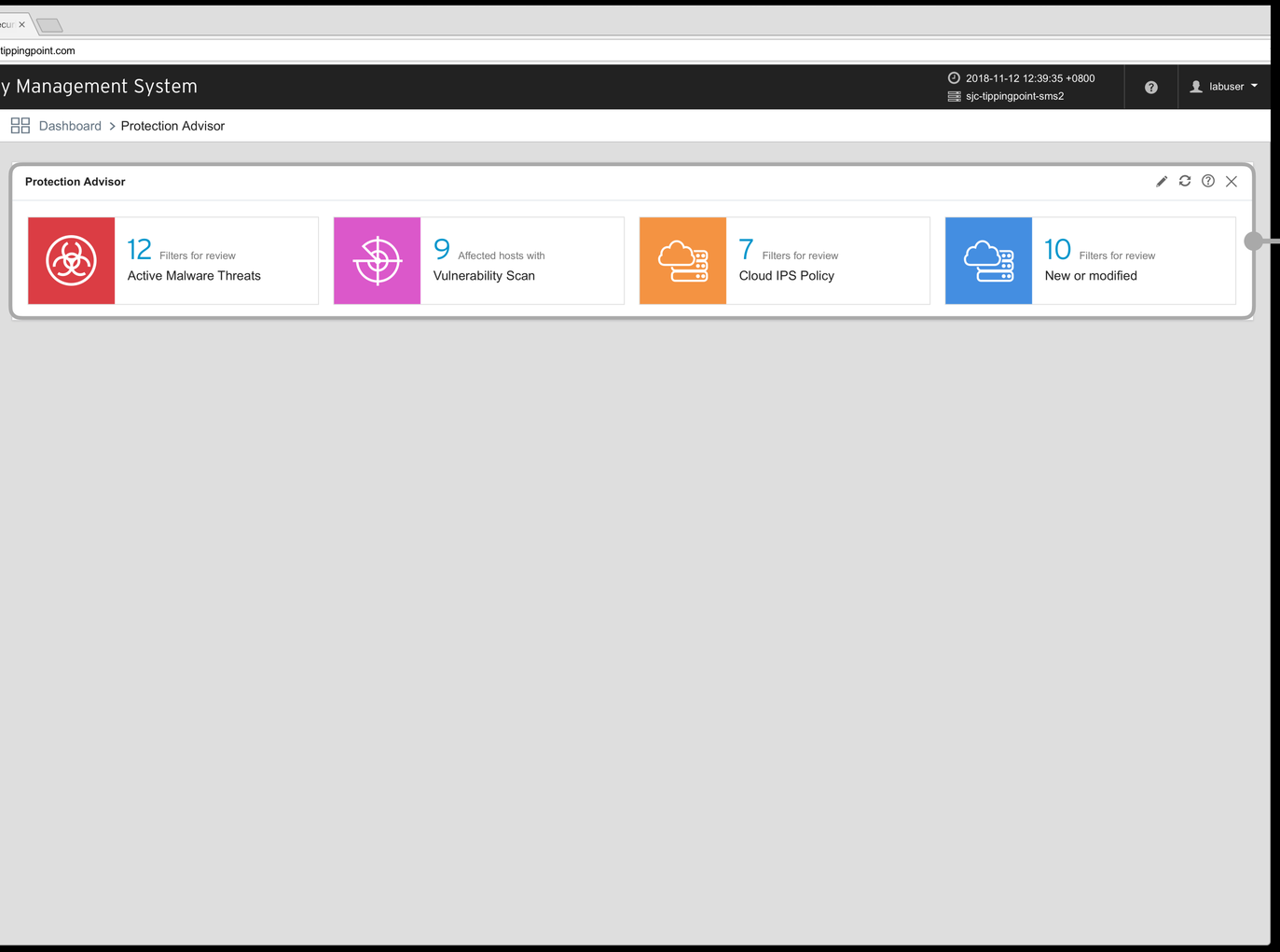
Active Threat Defense

- Made available through an elegant Web UI



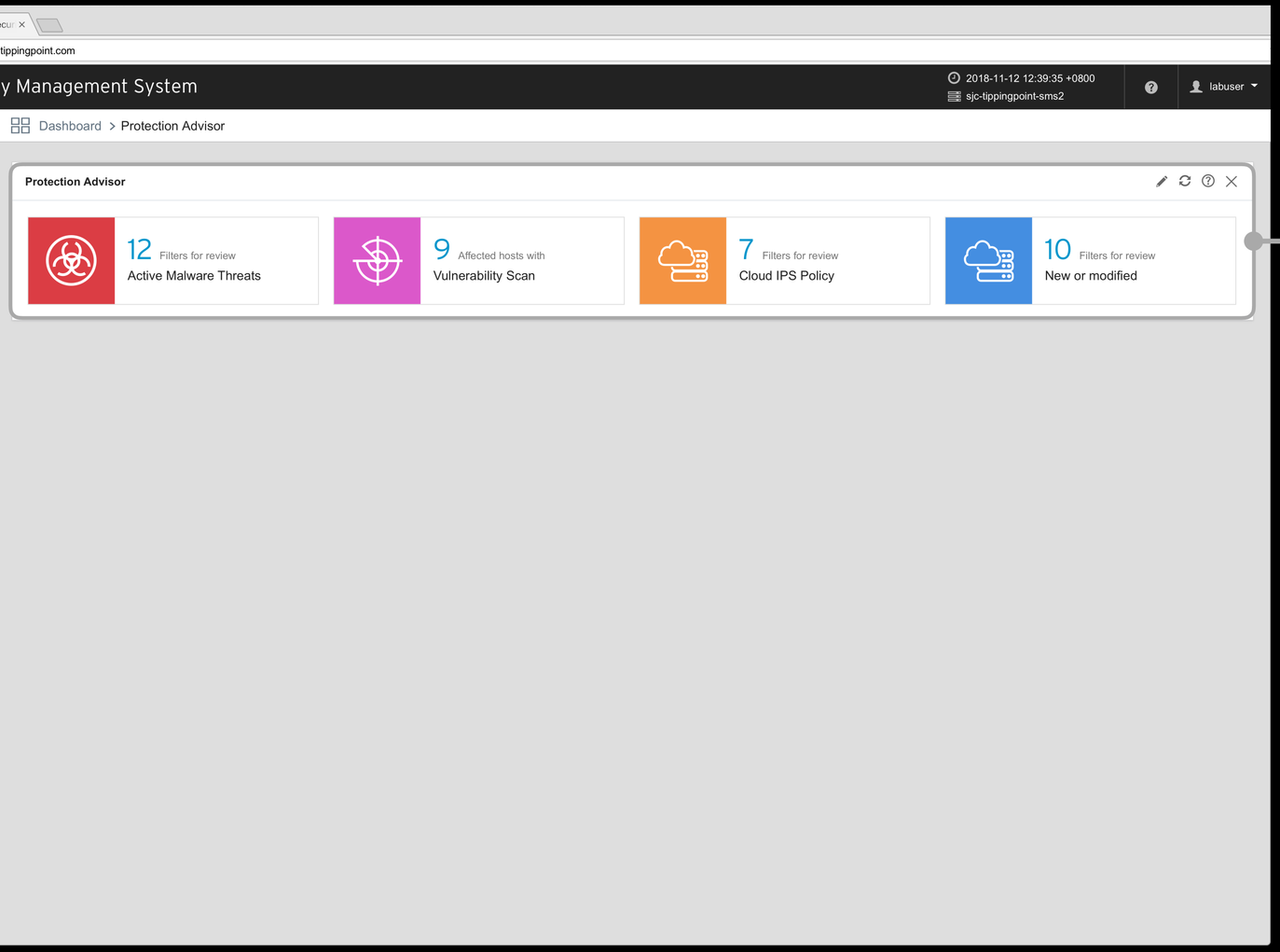
Active Threat Defense

- Made available through an elegant Web UI
- Happy path to defend against vulns and malwares



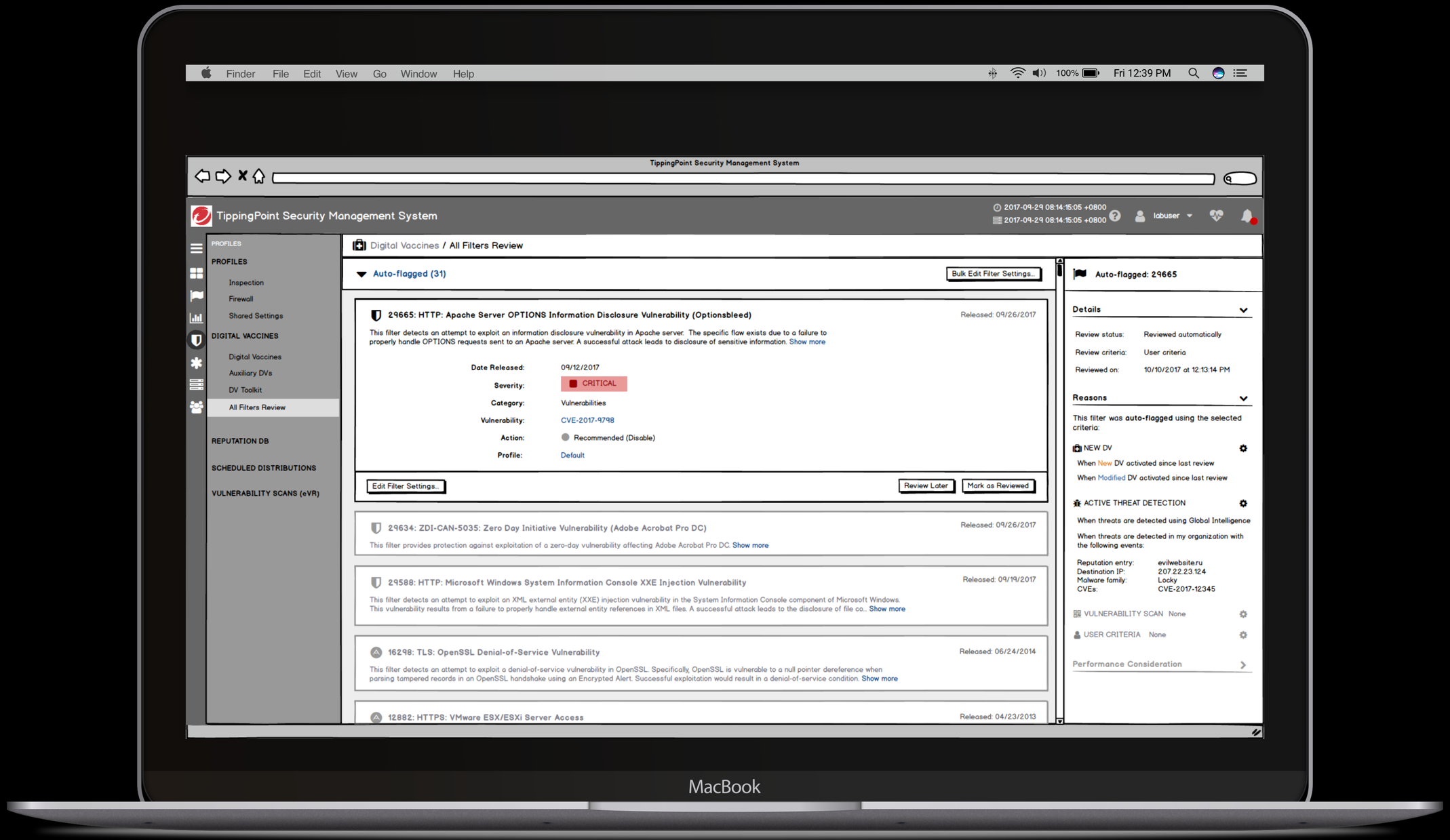
Active Threat Defense

- Made available through an elegant Web UI
- Happy path to defend against vulns and malwares
- Pulls latest threat intelligence updates from SPN



Active Threat Defense

- Made available through an elegant Web UI
- Happy path to defend against vulns and malwares
- Pulls latest threat intelligence updates from SPN
- Visibility into network and cloud IPS policy settings based IPS policy settings


Finder File Edit View Go Window Help
100% Fri 12:39 PM
TippingPoint Security Management System
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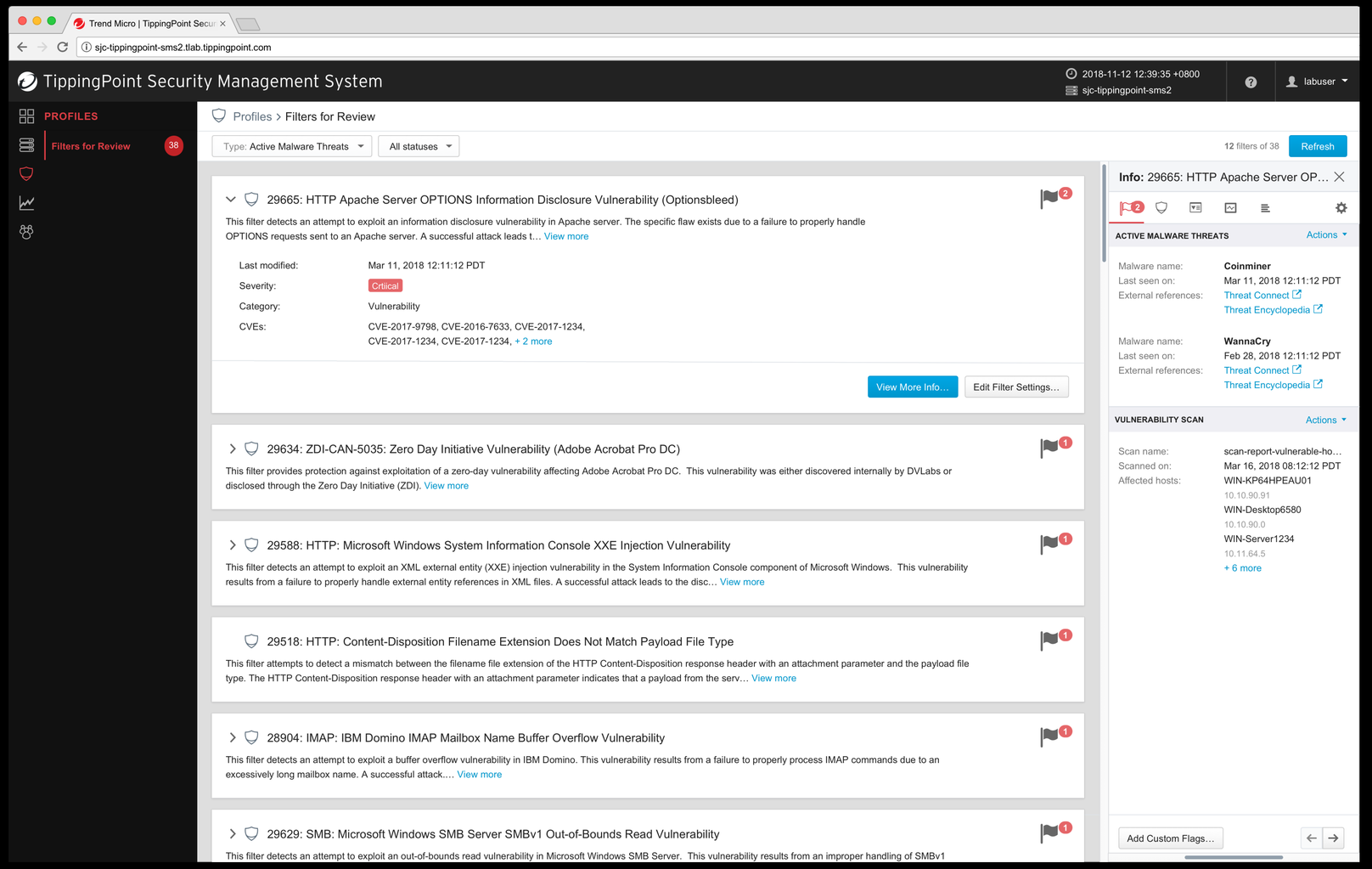
2017-09-29 08:14:15:05 +0800
2017-09-29 08:14:15:05 +0800
labuser
PROFILES
PROFILES
Inspection
Firewall
Shared Settings
DIGITAL VACCINES
Digital Vaccines
Auxiliary DVs
DV Toolkit
All Filters Review
REPUTATION DB
SCHEDULED DISTRIBUTIONS
VULNERABILITY SCANS (eVR)
Digital Vaccines / All Filters Review
Auto-flagged (31)
Bulk Edit Filter Settings...
29665: HTTP: Apache Server OPTIONS Information Disclosure Vulnerability (Optionsbleed)
Released: 09/26/2017
This filter detects an attempt to exploit an information disclosure vulnerability in Apache server. The specific flaw exists due to a failure to properly handle OPTIONS requests sent to an Apache server. A successful attack leads to disclosure of sensitive information. Show more
Date Released: 09/12/2017
Severity: CRITICAL
Category: Vulnerabilities
Vulnerability: CVE-2017-9798
Action: Recommended (Disable)
Profile: Default
Edit Filter Settings...
Review Later
Mark as Reviewed
29634: ZDI-CAN-5035: Zero Day Initiative Vulnerability (Adobe Acrobat Pro DC)
Released: 09/26/2017
This filter provides protection against exploitation of a zero-day vulnerability affecting Adobe Acrobat Pro DC. Show more
29588: HTTP: Microsoft Windows System Information Console XXE Injection Vulnerability
Released: 09/19/2017
This filter detects an attempt to exploit an XML external entity (XXE) injection vulnerability in the System Information Console component of Microsoft Windows. This vulnerability results from a failure to properly handle external entity references in XML files. A successful attack leads to the disclosure of file co... Show more
16298: TLS: OpenSSL Denial-of-Service Vulnerability
Released: 06/24/2014
This filter detects an attempt to exploit a denial-of-service vulnerability in OpenSSL. Specifically, OpenSSL is vulnerable to a null pointer dereference when parsing tampered records in an OpenSSL handshake using an Encrypted Alert. Successful exploitation would result in a denial-of-service condition. Show more
12882: HTTPS: VMware ESX/ESXi Server Access
Released: 04/23/2013
Auto-flagged: 29665
Details
Review status: Reviewed automatically
Review criteria: User criteria
Reviewed on: 10/10/2017 at 12:13:14 PM
Reasons
This filter was auto-flagged using the selected criteria:
NEW DV
When New DV activated since last review
When Modified DV activated since last review
ACTIVE THREAT DETECTION
When threats are detected using Global Intelligence
When threats are detected in my organization with the following events:
Reputation entry: evilwebsite.ru
Destination IP: 207.22.23.124
Malware family: Locky
CVEs: CVE-2017-12345
VULNERABILITY SCAN None
USER CRITERIA None
Performance Consideration
MacBook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sjc-tippingpoint-sms2
labuser
PROFILES
Filters for Review
38
Profiles > Filters for Review
Type: Active Malware Threats
All statuses
12 filters of 38
Refresh
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Last modified: Mar 11, 2018 12:11:12 PDT
Severity: Crtiical
Category: Vulnerability
CVEs: CVE-2017-9798, CVE-2016-7633, CVE-2017-1234, CVE-2017-1234, CVE-2017-1234, + 2 more
View More Info…
Edit Filter Settings…
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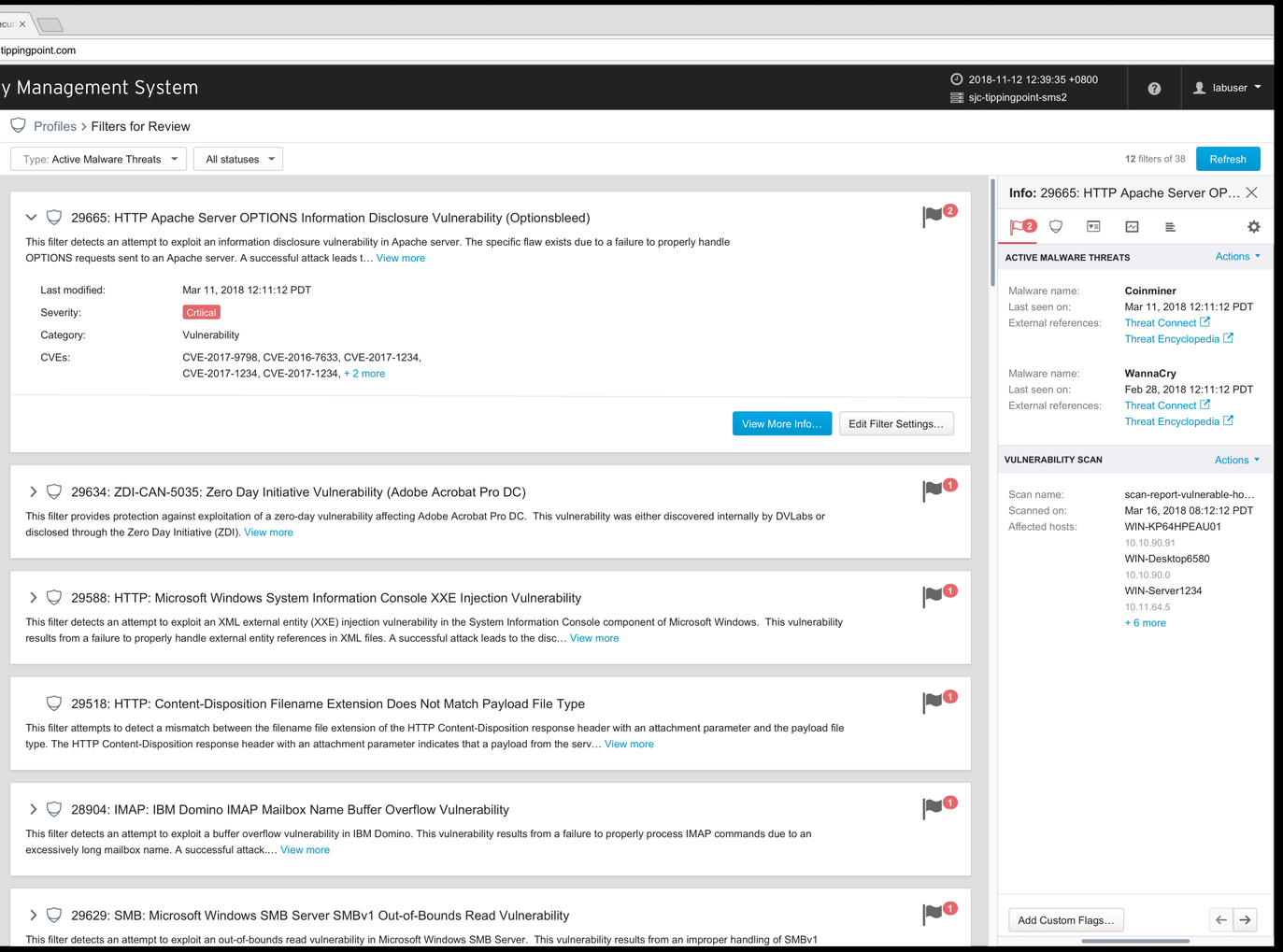
29518: HTTP: Content-Disposition Filename Extension Does Not Match Payload File Type
This filter attempts to detect a mismatch between the filename file extension of the HTTP Content-Disposition response header with an attachment parameter and the payload file type. The HTTP Content-Disposition response header with an attachment parameter indicates that a payload from the serv… View more
28904: IMAP: IBM Domino IMAP Mailbox Name Buffer Overflow Vulnerability
This filter detects an attempt to exploit a buffer overflow vulnerability in IBM Domino. This vulnerability results from a failure to properly process IMAP commands due to an excessively long mailbox name. A successful attack.… View more
29629: SMB: Microsoft Windows SMB Server SMBv1 Out-of-Bounds Read Vulnerability
This filter detects an attempt to exploit an out-of-bounds read vulnerability in Microsoft Windows SMB Server. This vulnerability results from an improper handling of SMBv1
Info: 29665: HTTP Apache Server OP…
ACTIVE MALWARE THREATS
Actions
Malware name: Coinminer
Last seen on: Mar 11, 2018 12:11:12 PDT
External references: Threat Connect
Threat Encyclopedia
Malware name: WannaCry
Last seen on: Feb 28, 2018 12:11:12 PDT
External references: Threat Connect
Threat Encyclopedia
VULNERABILITY SCAN
Actions
Scan name: scan-report-vulnerable-ho…
Scanned on: Mar 16, 2018 08:12:12 PDT
Affected hosts: WIN-KP64HPEAU01
10.10.90.91
WIN-Desktop6580
10.10.90.0
WIN-Server1234
10.11.64.5
+ 6 more
Add Custom Flags…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Profiles › Filters for Review
Type: Active Malware Threats
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Malware name: Coinminer
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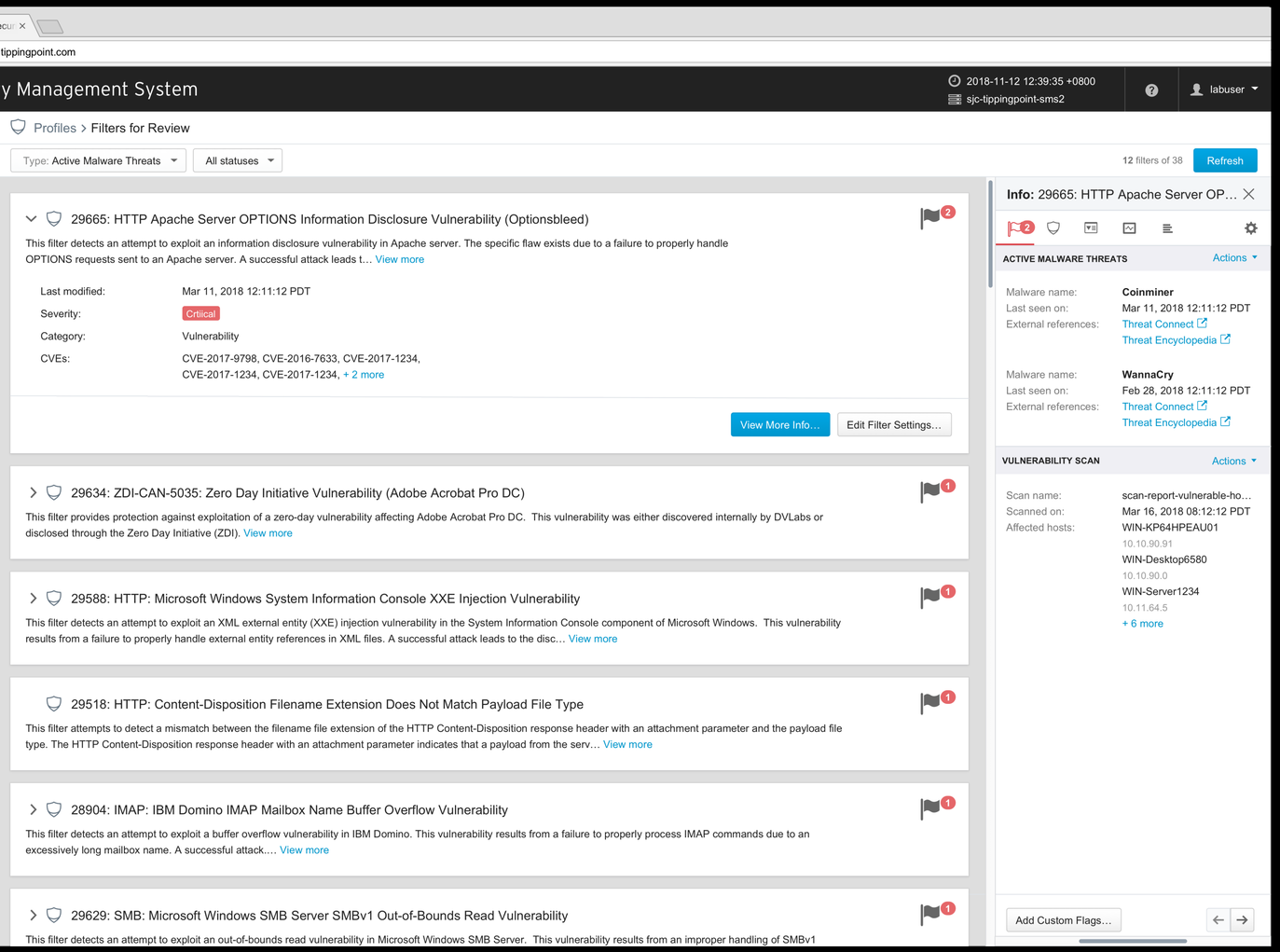
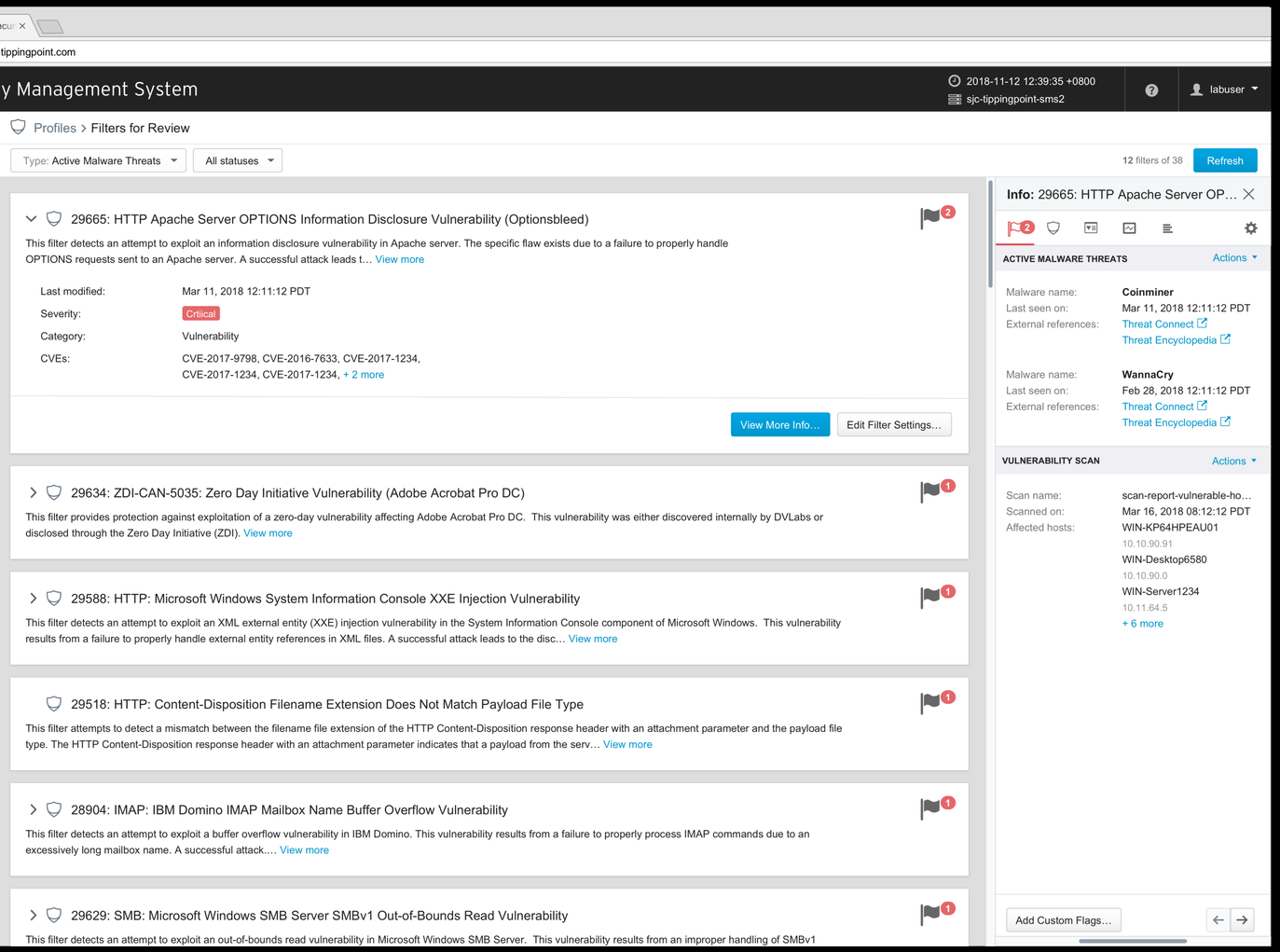
Threat Encyclopedia
Malware name: WannaCry
Last seen on: Feb 28, 2018 12:11:12 PDT
External references: Threat Connect
Threat Encyclopedia
VULNERABILITY SCAN
Actions
Scan name: scan-report-vulnerable-ho…
Scanned on: Mar 16, 2018 08:12:12 PDT
Affected hosts: WIN-KP64HPEAU01
10.10.90.91
WIN-Desktop6580
10.10.90.0
WIN-Server1234
10.11.64.5
+ 6 more
Add Custom Flags…

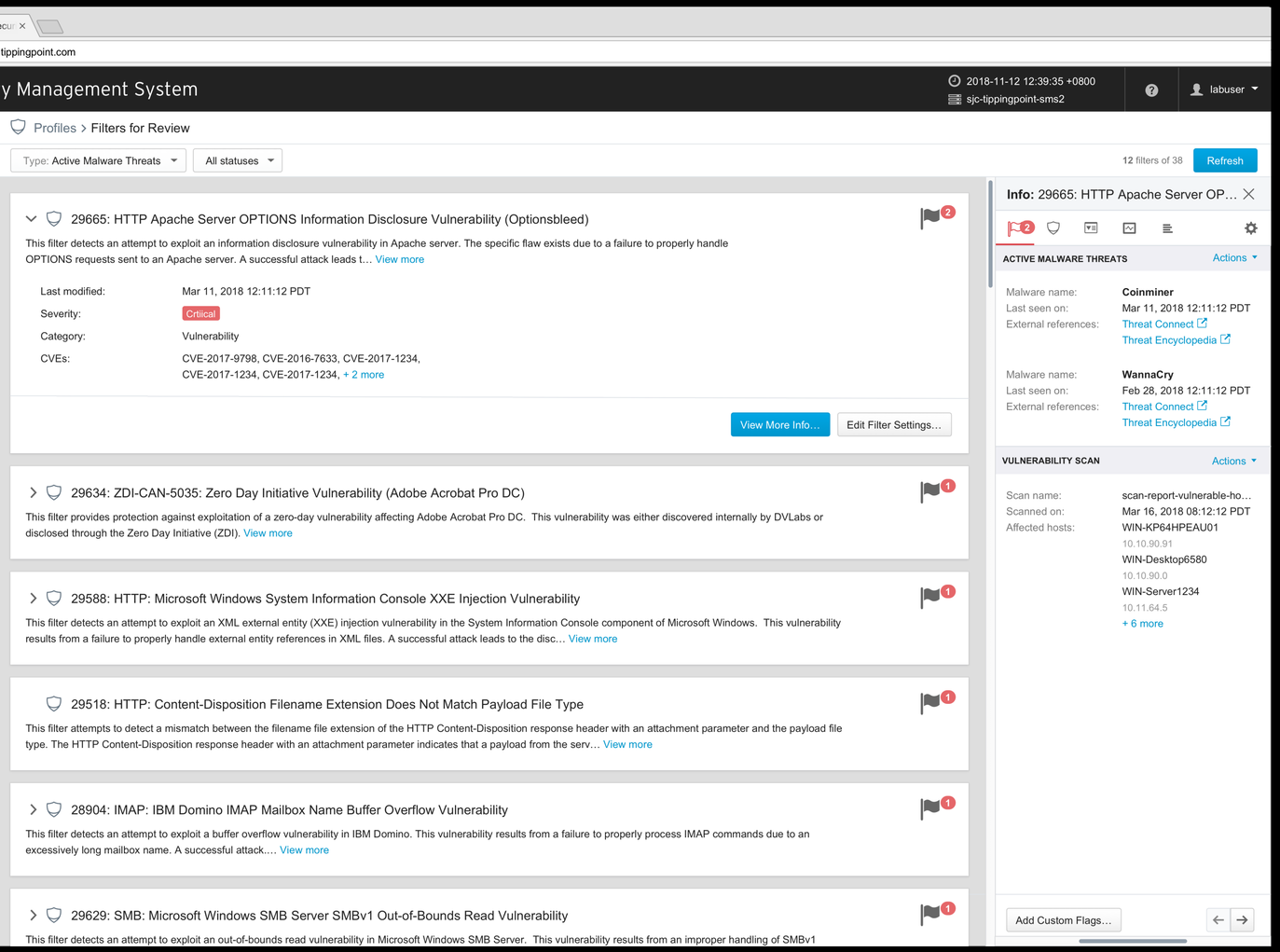


Filters Tuning Workflow - Simplified



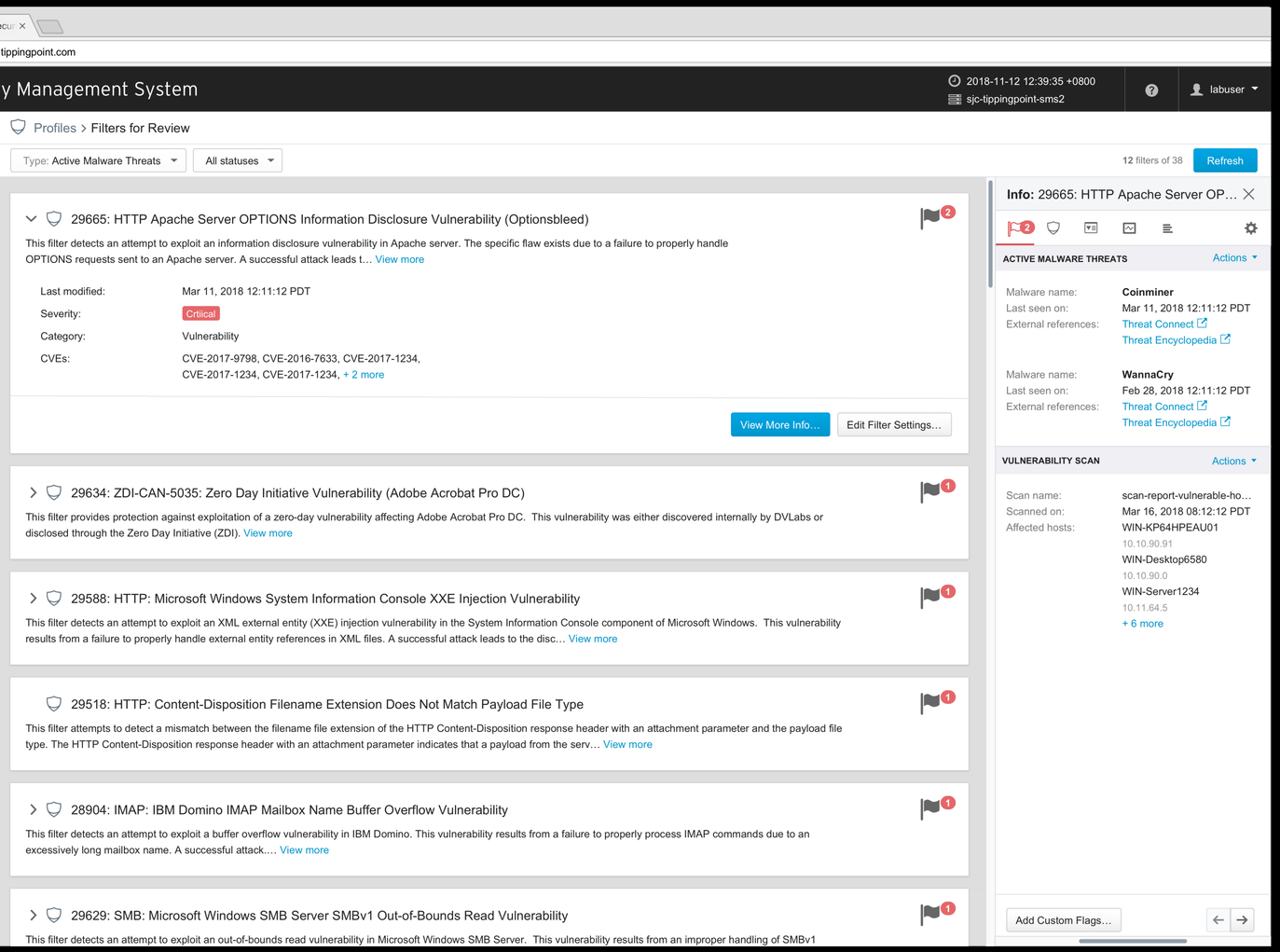
Filters Tuning Workflow - Simplified

- Apache Struts (flagged vulnerable & malware active)



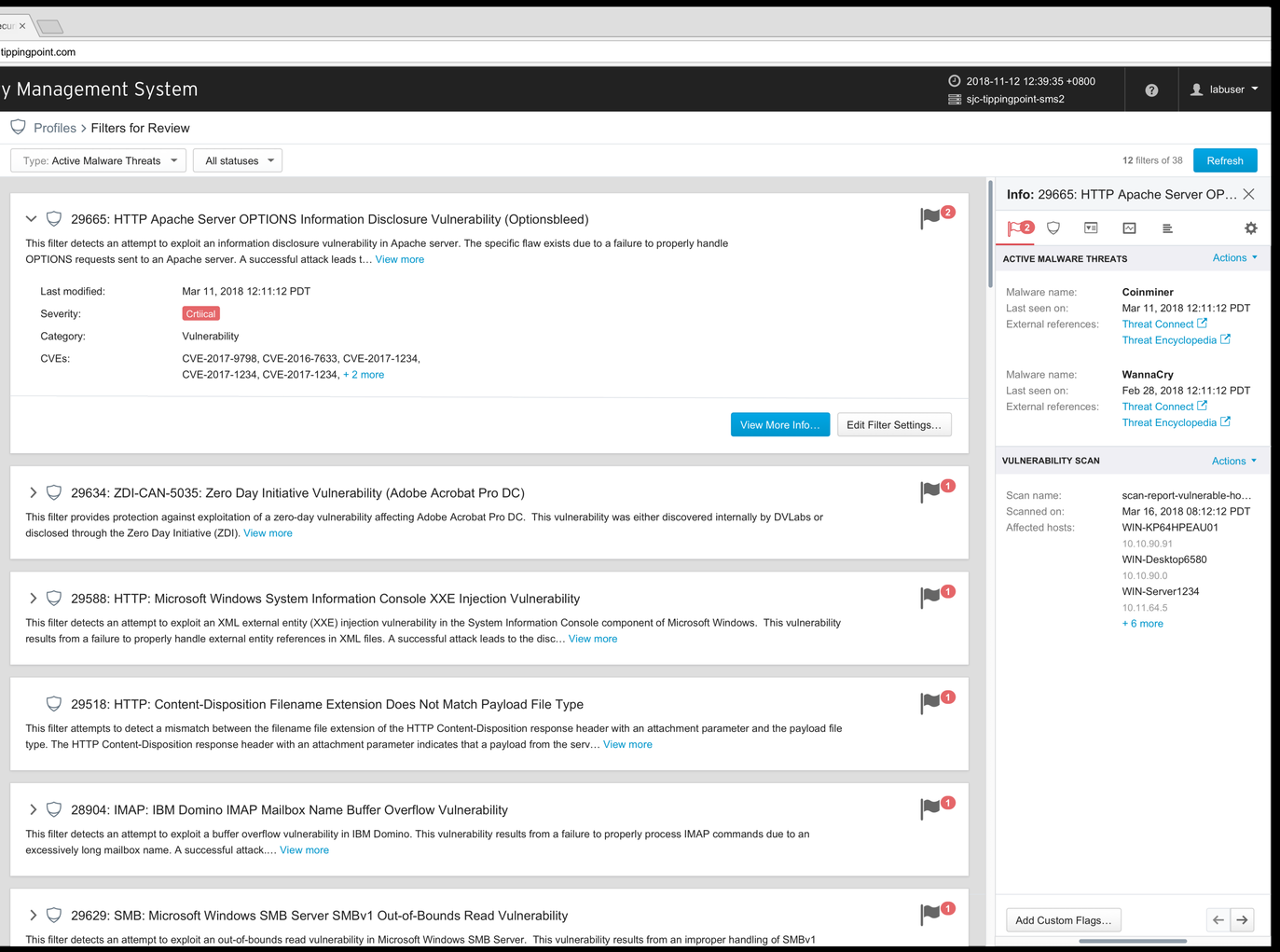
Filters Tuning Workflow - Simplified

- Apache Struts (flagged vulnerable & malware active)
- Context specific to your environment



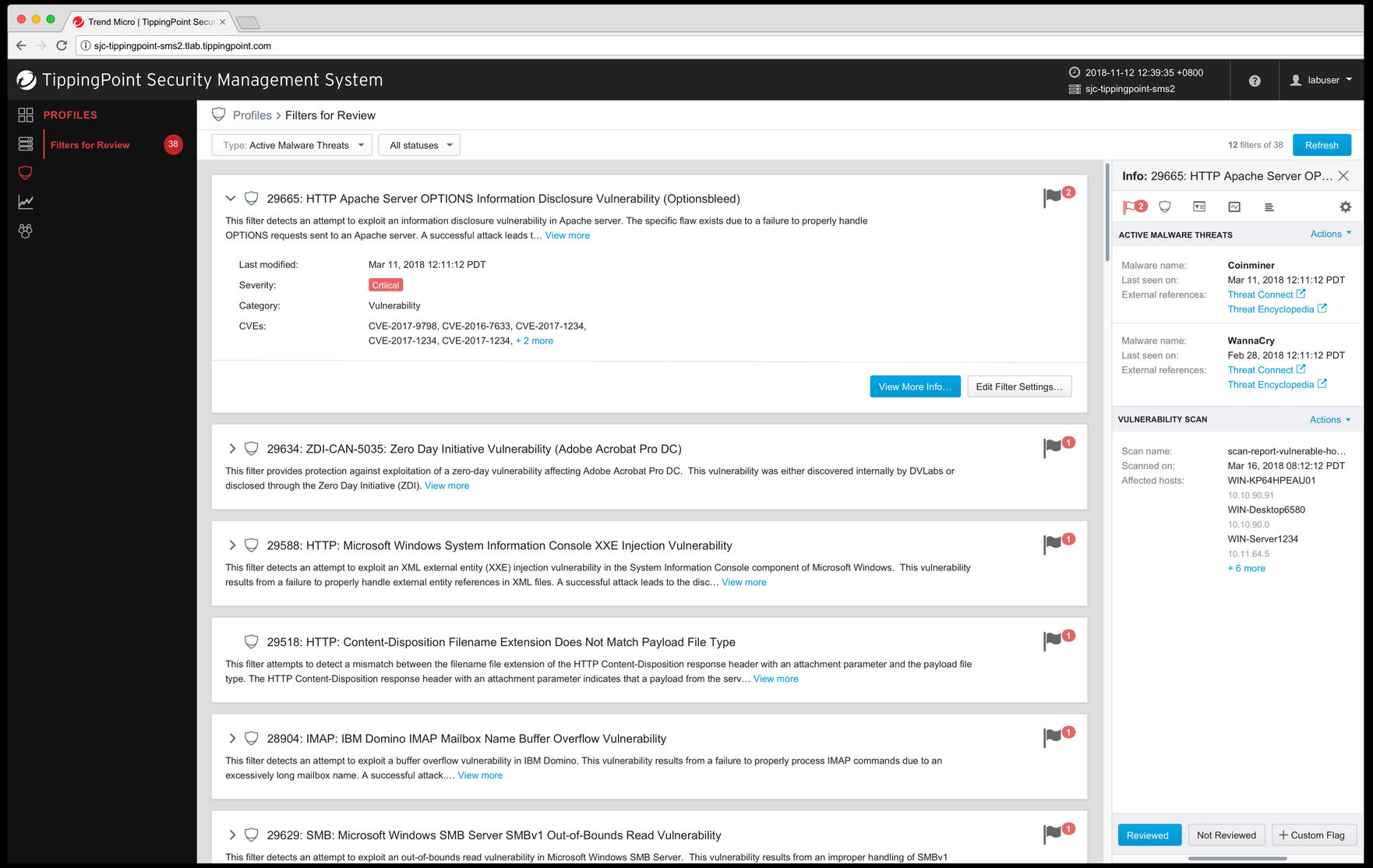
Filters Tuning Workflow – Simplified

- Apache Struts (flagged vulnerable & malware active)
- Context specific to your environment
- Optimized for operational ease of use



Filters Tuning Workflow – Simplified

- Apache Struts (flagged vulnerable & malware active)
- Context specific to your environment
- Optimized for operational ease of use
- Recent events related the Apache Struts attack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labuser
PROFILES
Filters for Review
38
Profiles > Filters for Review
Type: Active Malware Threats
All statuses
12 filters of 38
Refresh
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Severity: Critical
Category: Vulnerability
CVEs: CVE-2017-9798, CVE-2016-7633, CVE-2017-1234, CVE-2017-1234, CVE-2017-1234, + 2 more
View More Info…
Edit Filter Settings…
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Threat Encyclopedia
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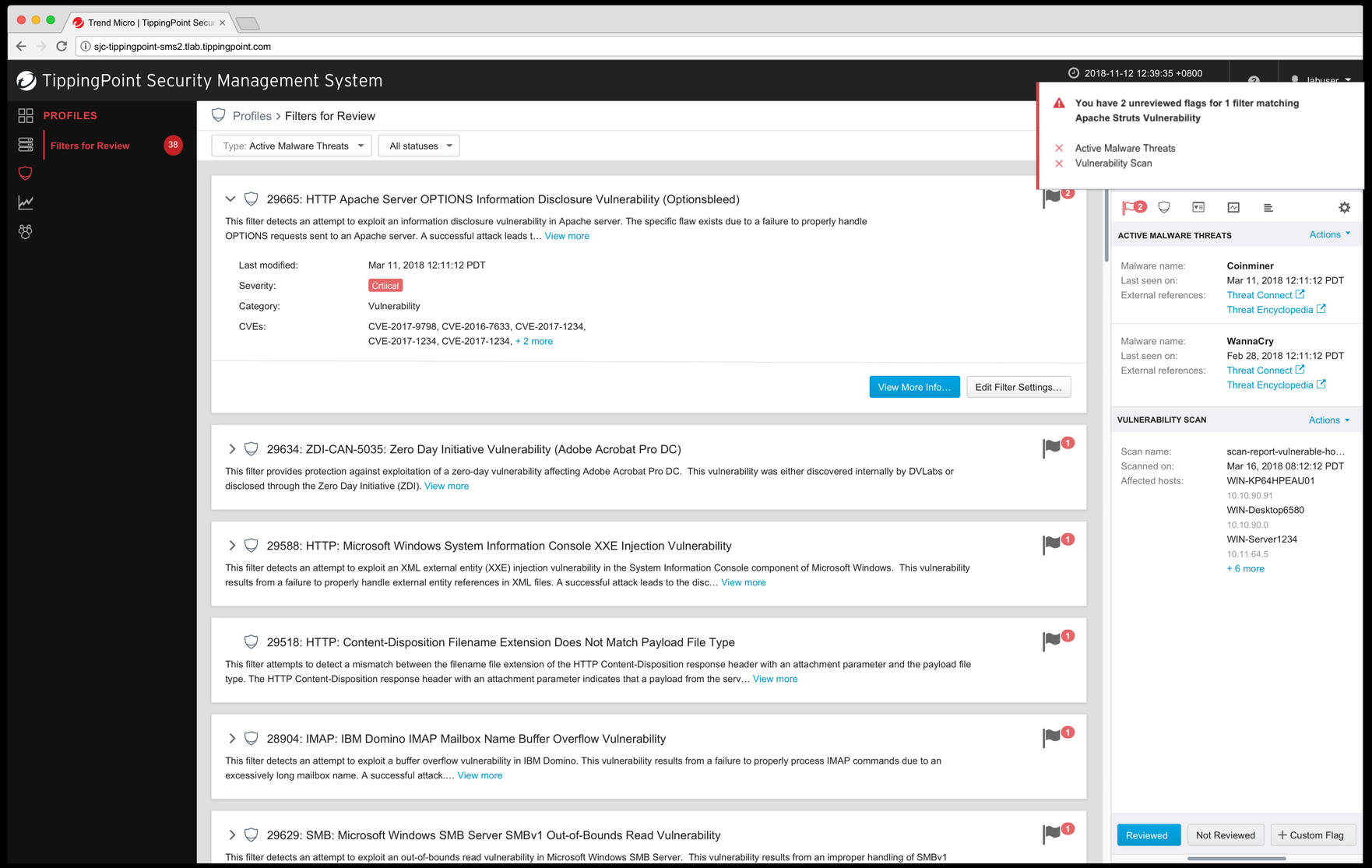
Scan name: scan-report-vulnerable-ho…
Scanned on: Mar 16, 2018 08:12:12 PDT
Affected hosts: WIN-KP64HPEAU01
10.10.90.91
WIN-Desktop6580
10.10.90.0
WIN-Server1234
10.11.64.5
+ 6 more
Reviewed
Not Reviewed
+ Custom Flag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Active Malware Threats
Vulnerability Scan
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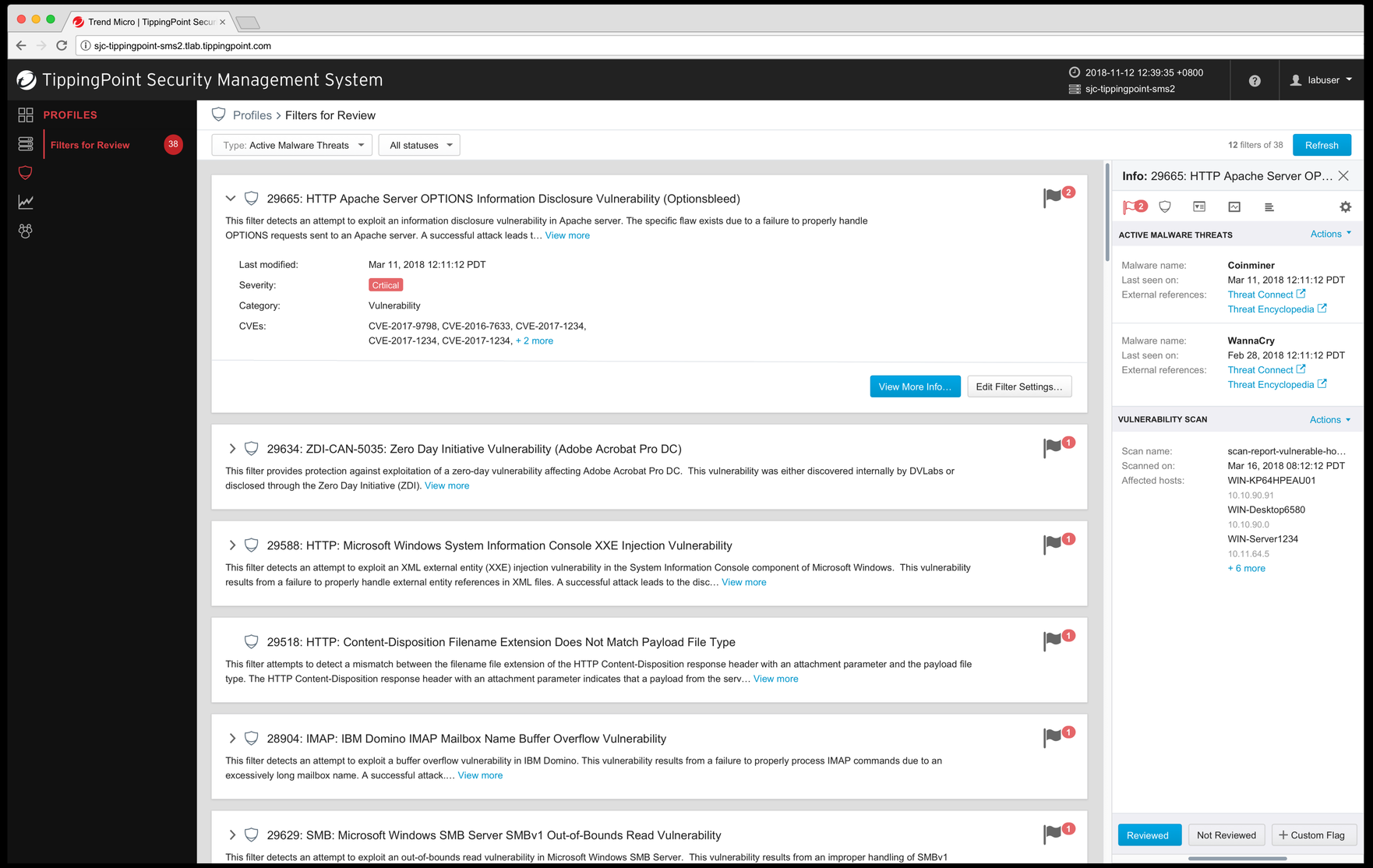
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Reviewed
Not Reviewed
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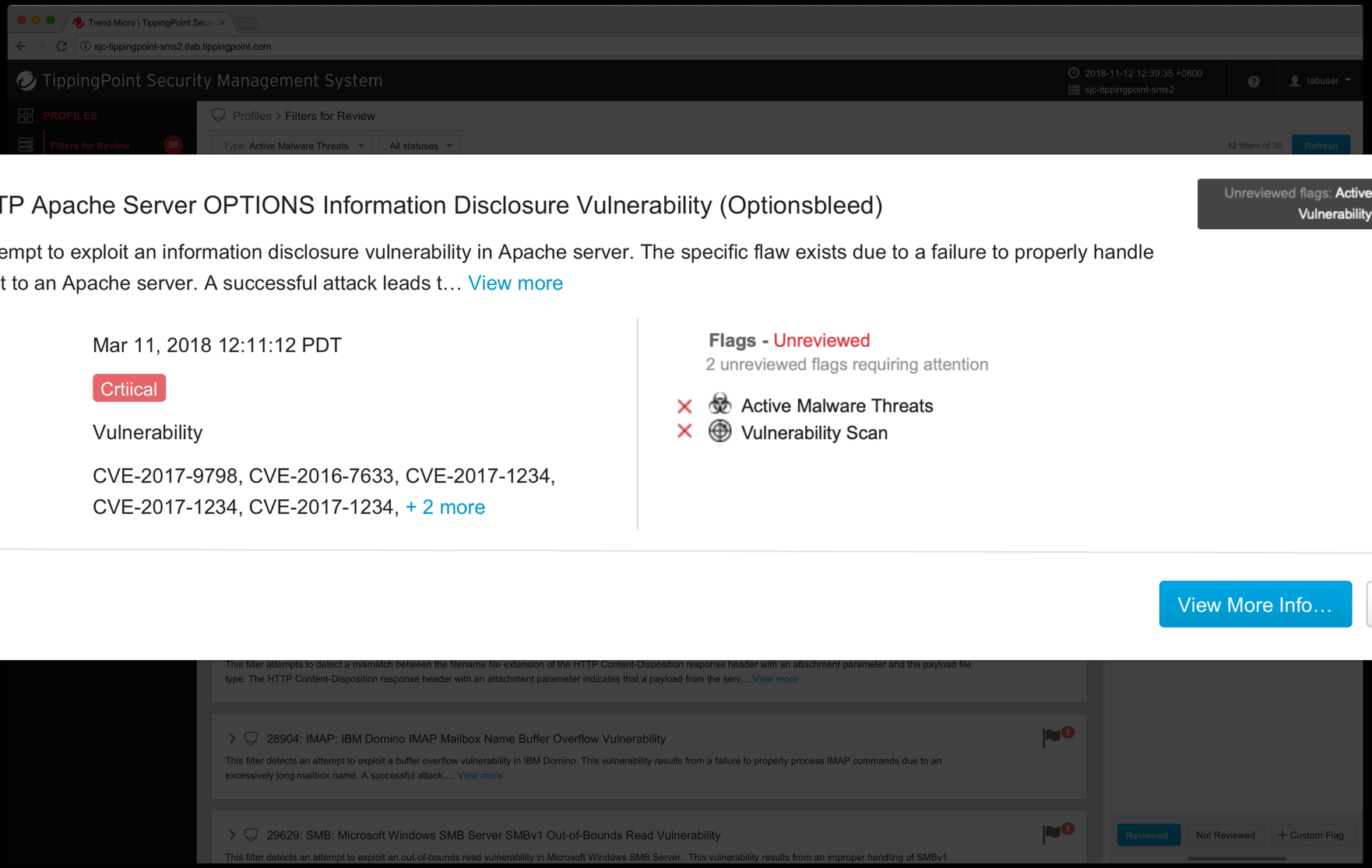
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29665: HTTP Apache Server OPTIONS Information Disclosure Vulnerability (Optionsbleed)
Unreviewed flags: Active Malware Threats, Vulnerability Scan
2
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Mar 11, 2018 12:11:12 PDT
Severity:
Crtiical
Category:
Vulnerability
CVEs:
CVE-2017-9798, CVE-2016-7633, CVE-2017-1234, CVE-2017-1234, CVE-2017-1234, + 2 more
Flags - Unreviewed
2 unreviewed flags requiring attention
Active Malware Threats
Vulnerability Scan
View More Info…
Edit Filter Settings…
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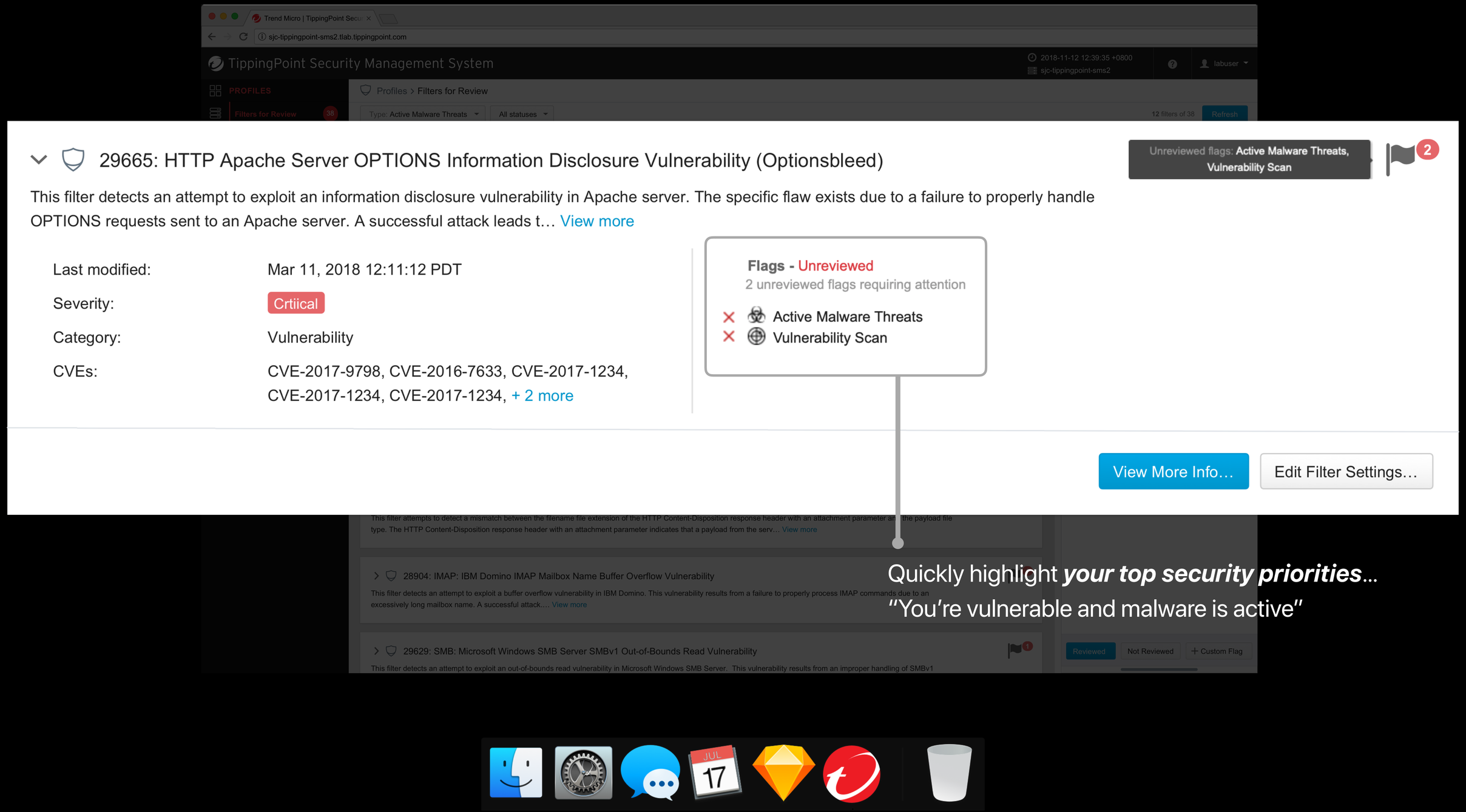
Reviewed
Not Reviewed
+ Custom Flag
JUL
17



Quickly highlight ***your top security priorities***…
"You're vulnerable and malware is active"

Info: 29665: HTTP Apache Server OP…

ACTIVE MALWARE THREATS Unreviewed Actions

Malware name:	**Coinminer**
Last seen on:	Mar 11, 2018 12:11:12 PDT
External references:	Threat Connect Threat Encyclopedia

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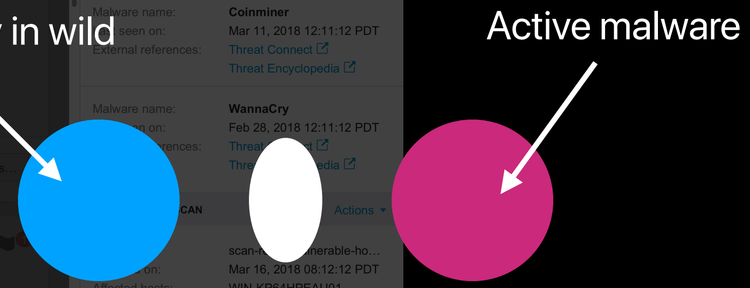
Reviewed | Not Reviewed | + Custom Flag



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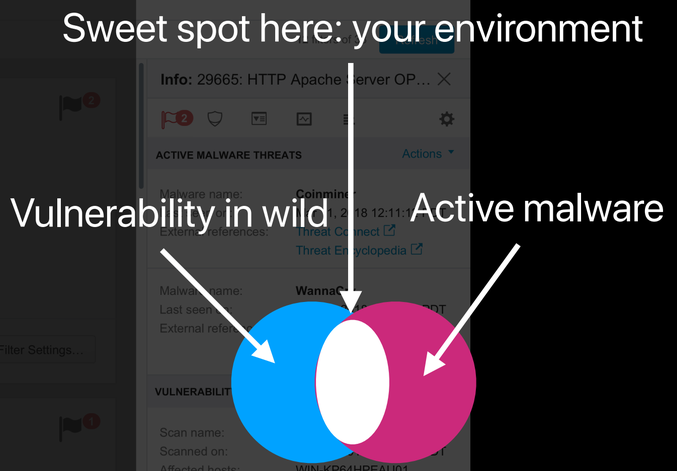

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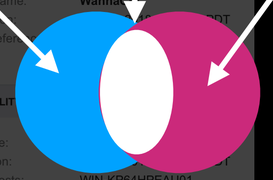
Reviewed | Not Reviewed | + Custom Flag

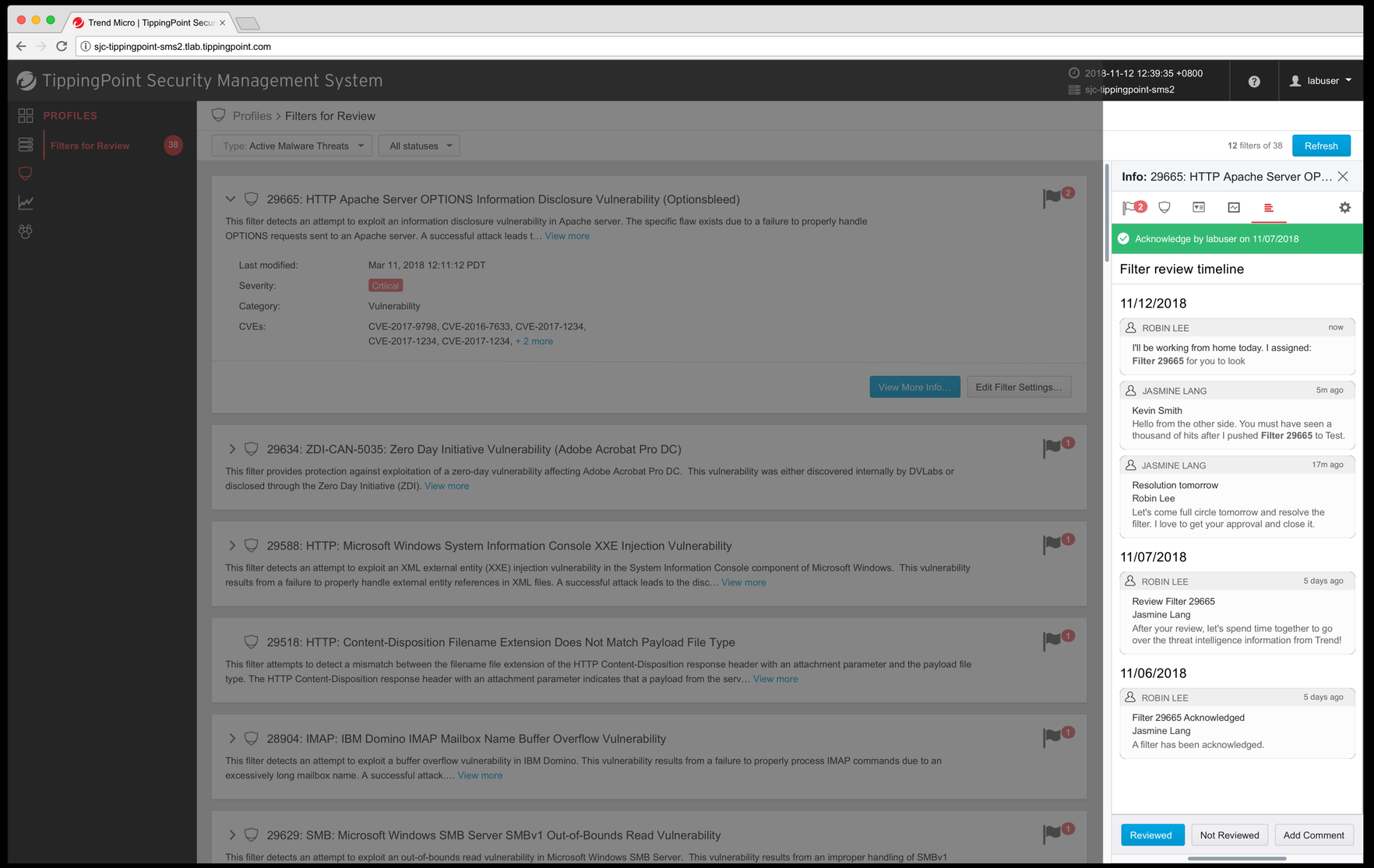
Sweet spot here: your environment

Vulnerability in wild

Active malware



Context specific to ***your*** environment including vulnerability assessments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Acknowledge by labuser on 11/07/2018
Filter review timeline
11/12/2018
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I'll be working from home today. I assigned: Filter 29665 for you to look
JASMINE LANG 5m ago
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Resolution tomorrow
Robin Lee
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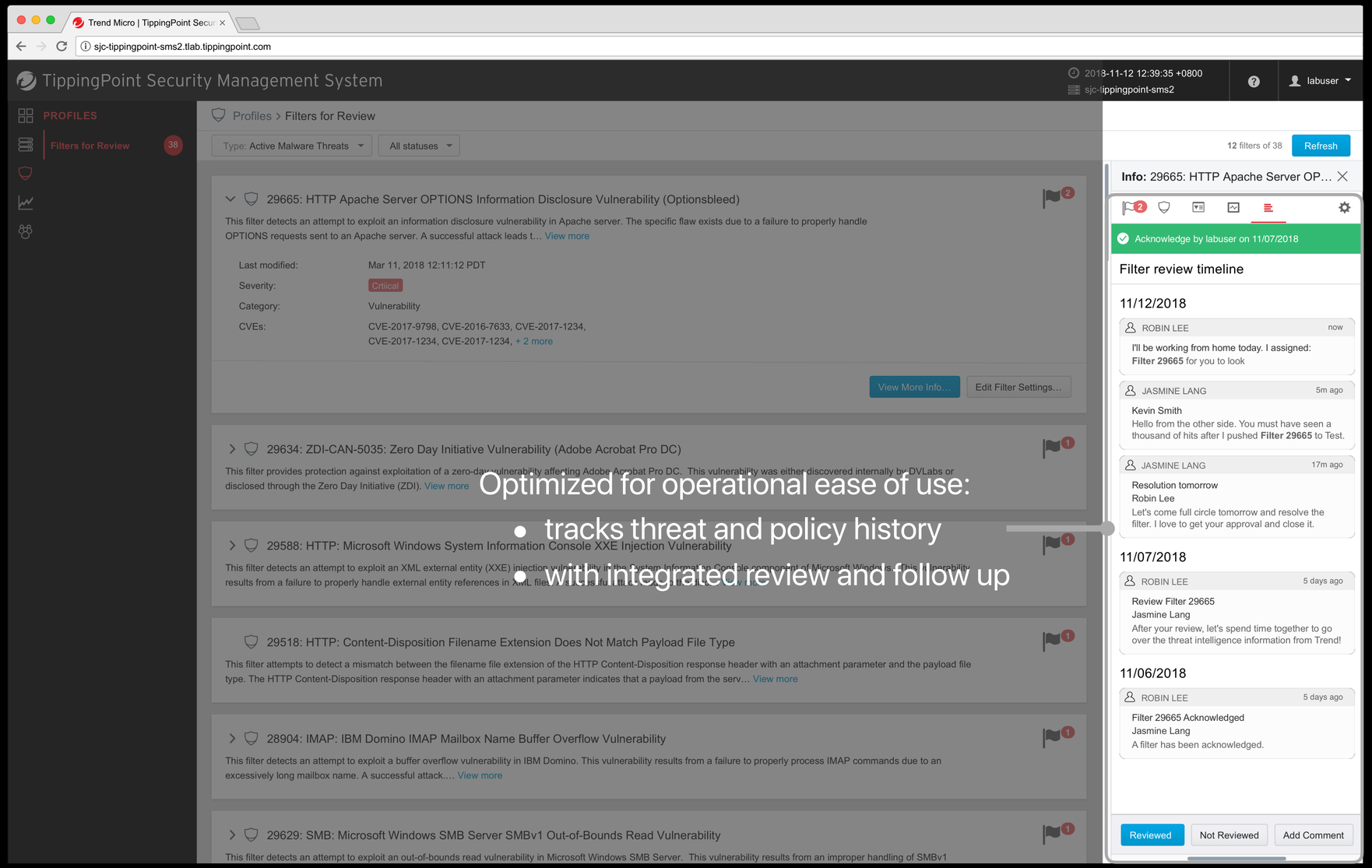
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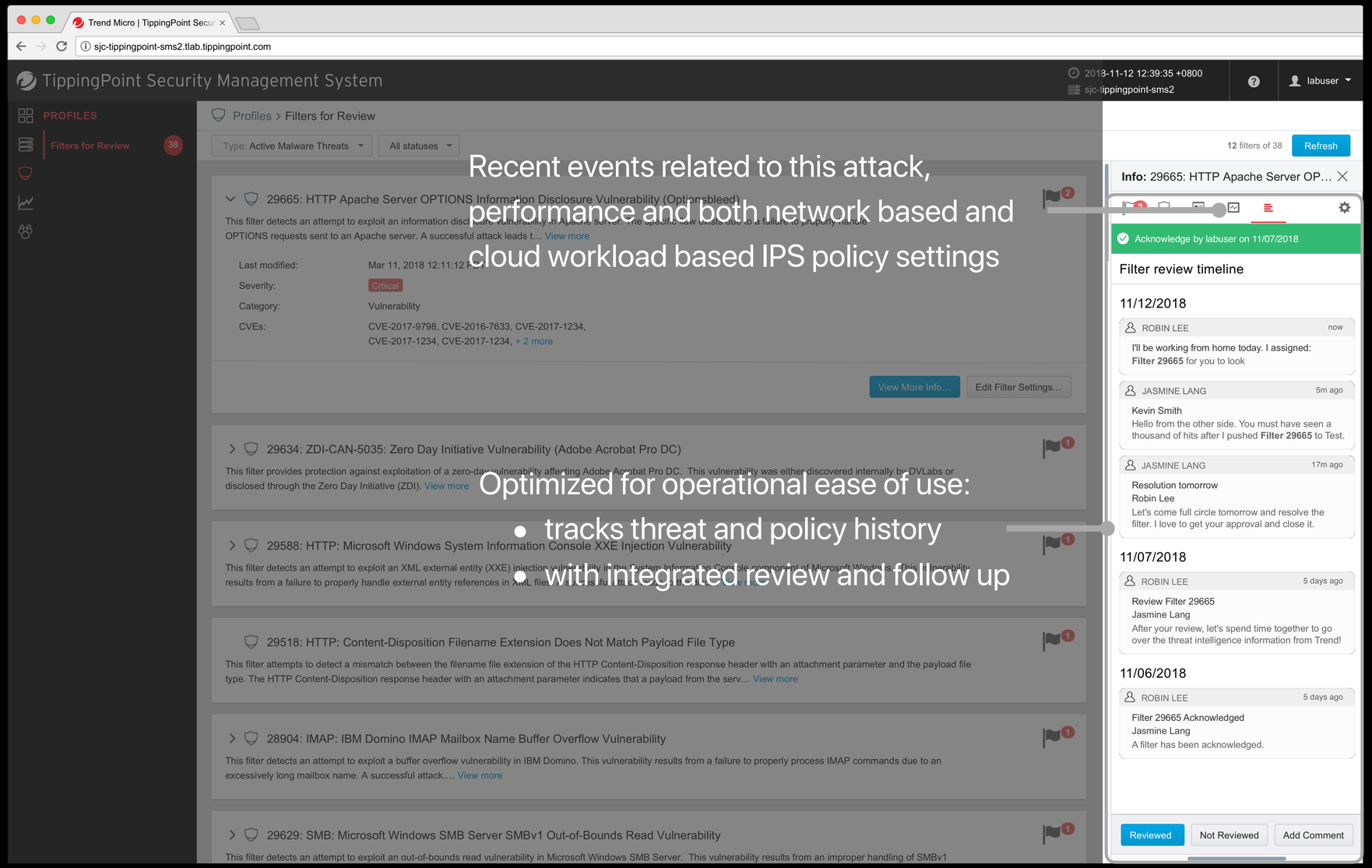
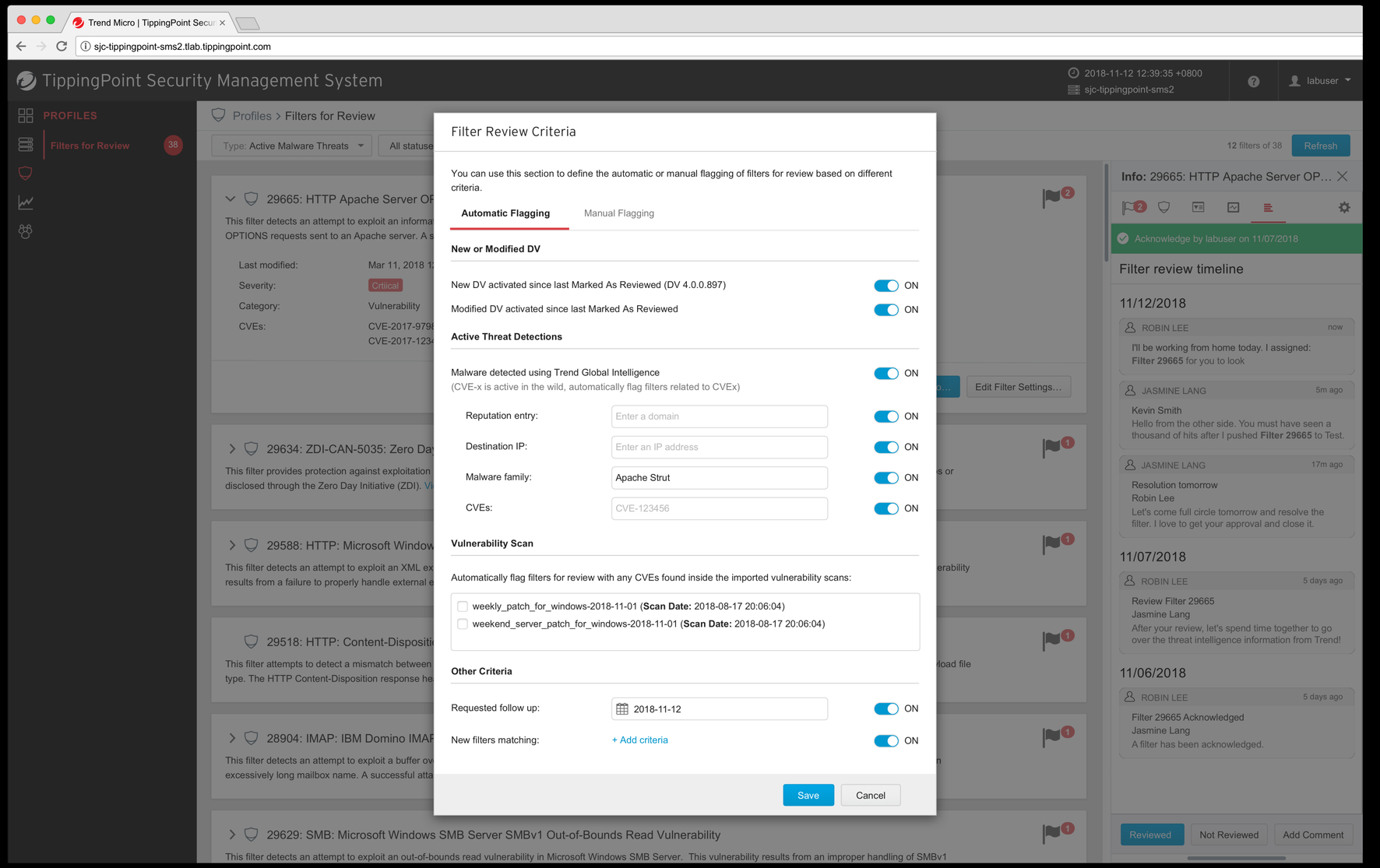
Optimized for operational ease of use:
tracks threat and policy history
with integrated review and follow up



Recent events related to this attack, performance and both network based and cloud workload based IPS policy settings

Optimized for operational ease of use:

- tracks threat and policy history
- with integrated review and follow up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Mar 11, 2018 1
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Category:
Vulnerability
CVEs:
CVE-2017-979
CVE-2017-123
Edit Filter Settings…
29634: ZDI-CAN-5035: Zero Da
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disclosed through the Zero Day Initiative (ZDI).
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Filter Review Criteria
You can use this section to define the automatic or manual flagging of filters for review based on different criteria.
Automatic Flagging
Manual Flagging
New or Modified DV
New DV activated since last Marked As Reviewed (DV 4.0.0.897)
ON
Modified DV activated since last Marked As Reviewed
ON
Active Threat Detections
Malware detected using Trend Global Intelligence
(CVE-x is active in the wild, automatically flag filters related to CVEx)
ON
Reputation entry:
Enter a domain
ON
Destination IP:
Enter an IP address
ON
Malware family:
Apache Strut
ON
CVEs:
CVE-123456
ON
Vulnerability Scan
Automatically flag filters for review with any CVEs found inside the imported vulnerability scans:
weekly_patch_for_windows-2018-11-01 (Scan Date: 2018-08-17 20:06:04)
weekend_server_patch_for_windows-2018-11-01 (Scan Date: 2018-08-17 20:06:04)
Other Criteria
Requested follow up:
2018-11-12
ON
New filters matching:
+ Add criteria
ON
Save
Cancel
Info: 29665: HTTP Apache Server OP…
Acknowledge by labuser on 11/07/2018
Filter review timeline
11/12/2018
ROBIN LEE
now
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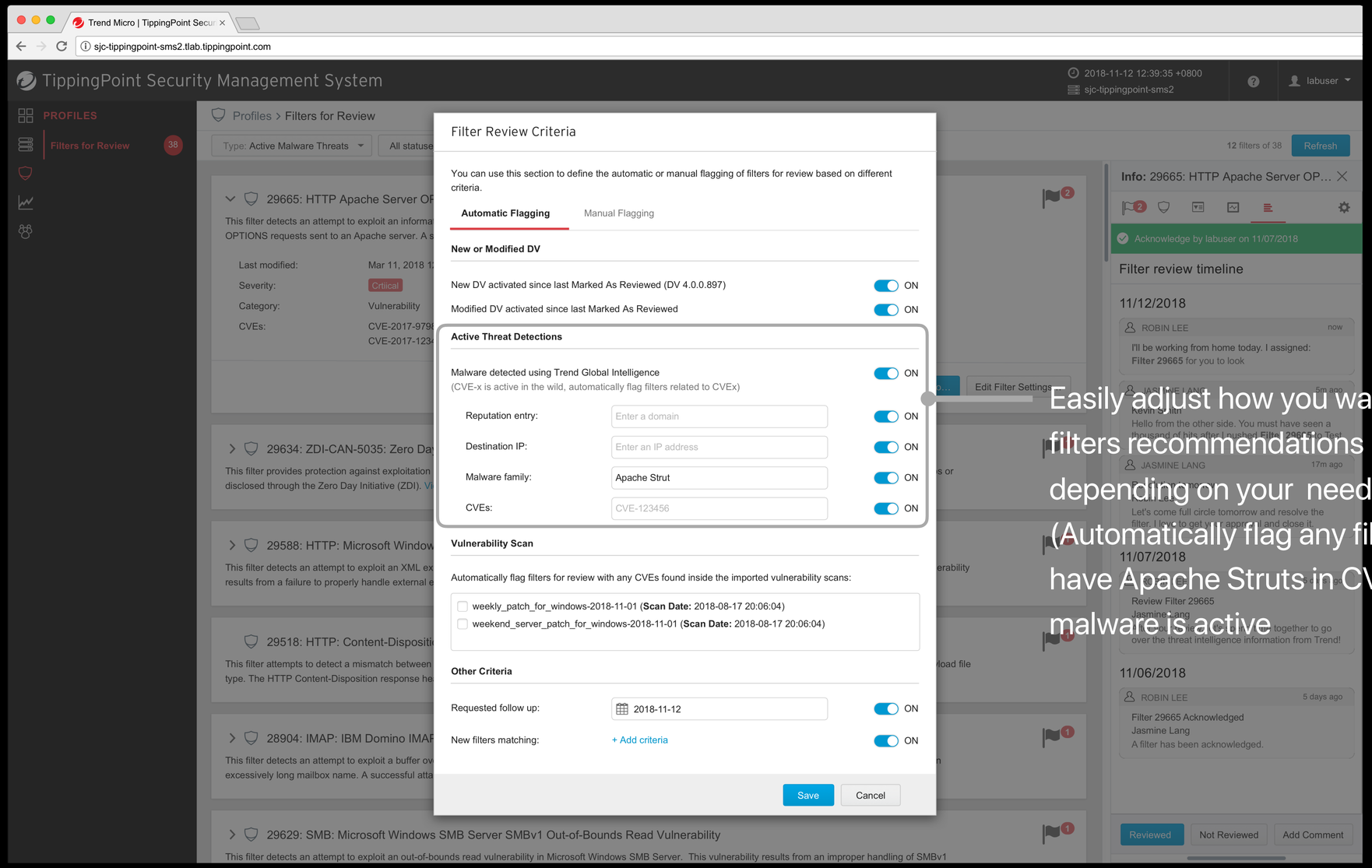
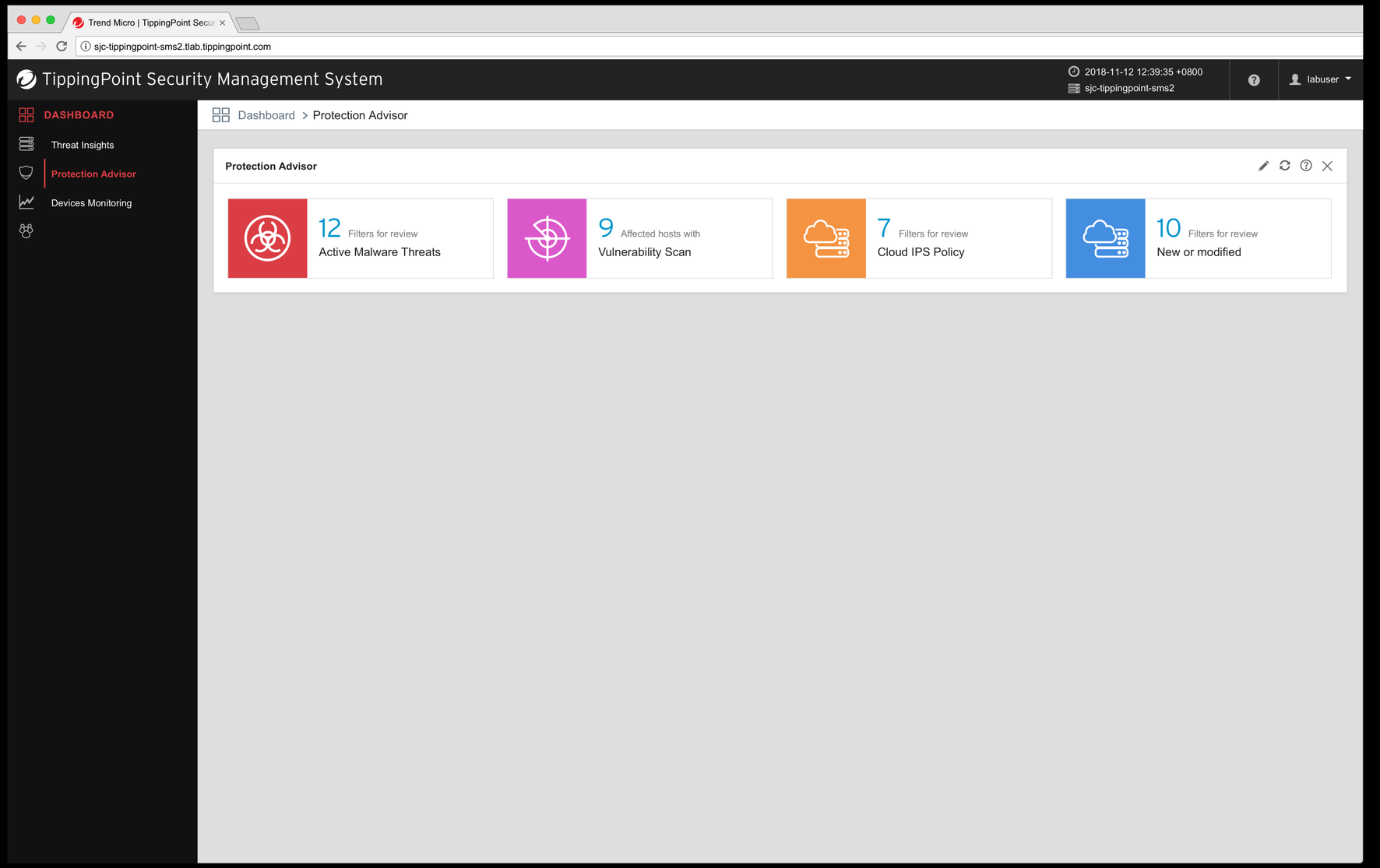
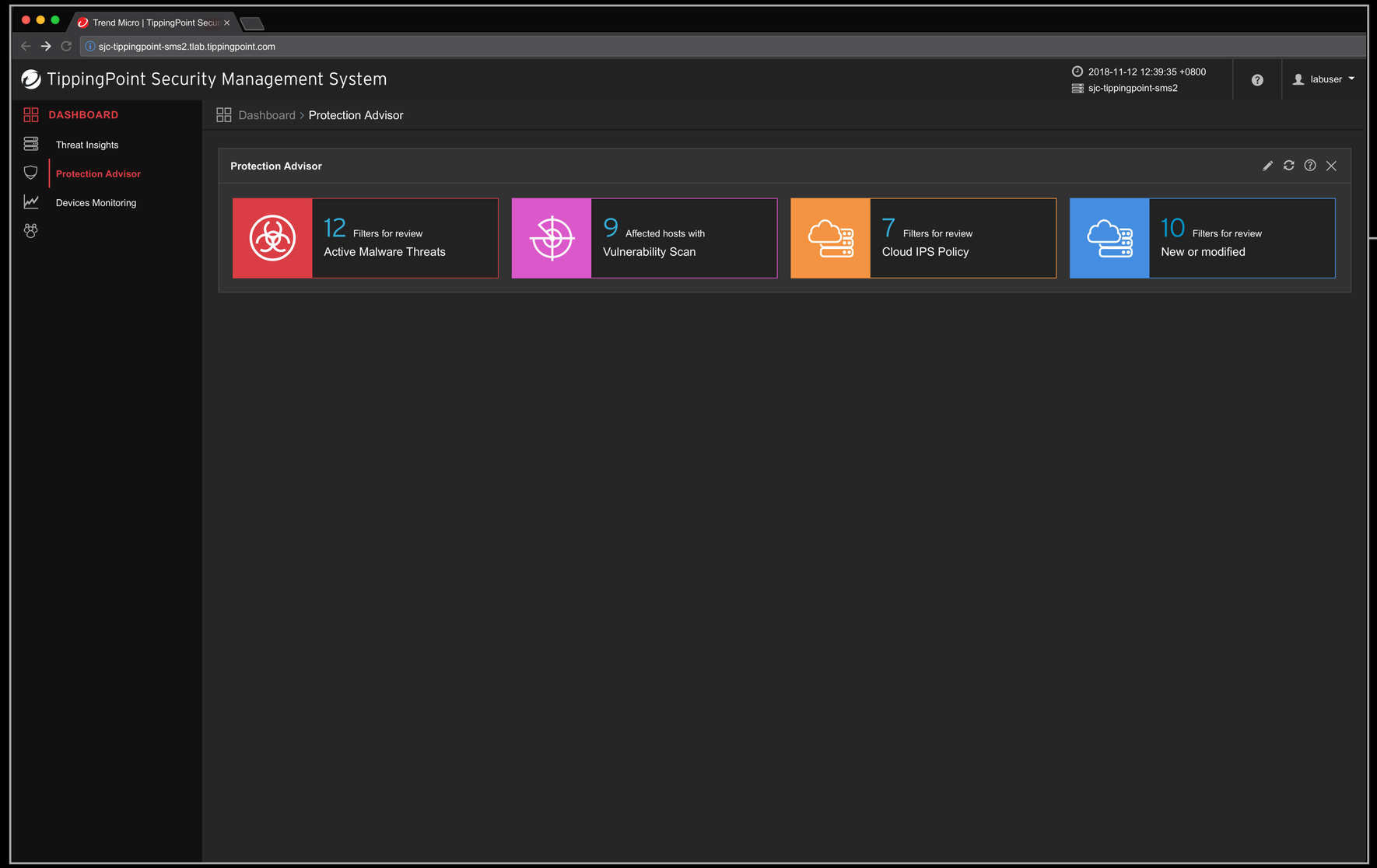
5m ago
Kevin Smith
Hello from the other side. You must have seen a thousand of hits after I pushed Filter 29665 to Test.
JASMINE LANG
17m ago
Resolution tomorrow
Robin Lee
Let's come full circle tomorrow and resolve the filter. I love to get your approval and close it.
11/07/2018
ROBIN LEE
5 days ago
Review Filter 29665
Jasmine Lang
After your review, let's spend time together to go over the threat intelligence information from Trend!
11/06/2018
ROBIN LEE
5 days ago
Filter 29665 Acknowledged
Jasmine Lang
A filter has been acknowledged.
Reviewed
Not Reviewed
Add Comment



Easily adjust how you want filters recommendations depending on your needs (Automatically flag any filters that have Apache Struts in CVEs or malware is active


Trend Micro | TippingPoint Secur
sjc-tippingpoint-sms2.tlab.tippingpoint.com
TippingPoint Security Management System
2018-11-12 12:39:35 +0800
sjc-tippingpoint-sms2
labuser
DASHBOARD
Threat Insights
Protection Advisor
Devices Monitoring
Dashboard > Protection Advisor
Protection Advisor
12 Filters for review
Active Malware Threats
9 Affected hosts with
Vulnerability Scan
7 Filters for review
Cloud IPS Policy
10 Filters for review
New or modified


Trend Micro | TippingPoint Secur
sjc-tippingpoint-sms2.tlab.tippingpoint.com
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Protection Advisor
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Vulnerability Scan
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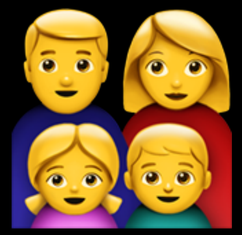
Cloud IPS Policy
10 Filters for review
New or modified

Dark Theme

DEMO

UXSW2018

https://8az3pp.axshare.com (password: ~~SXSW2018~~)



Please give us feedback on the new Active Threat Defense experience:

- Active malware/vulnerabilities
- Filters tuning workflow


Thank you