

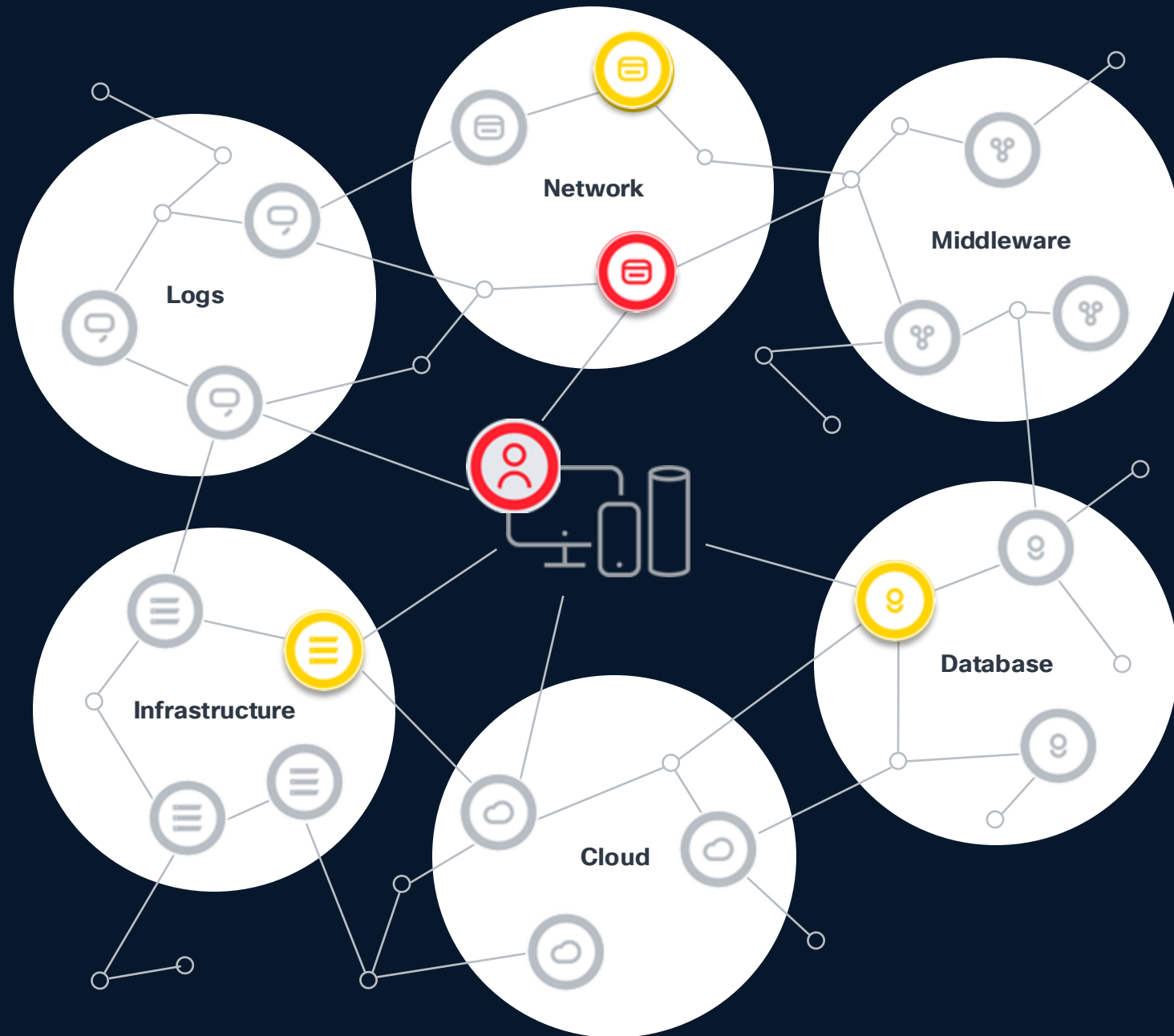
# Introduction to Splunk Platform for Security & Observability

Robbie Baines, Splunk Observability Specialist



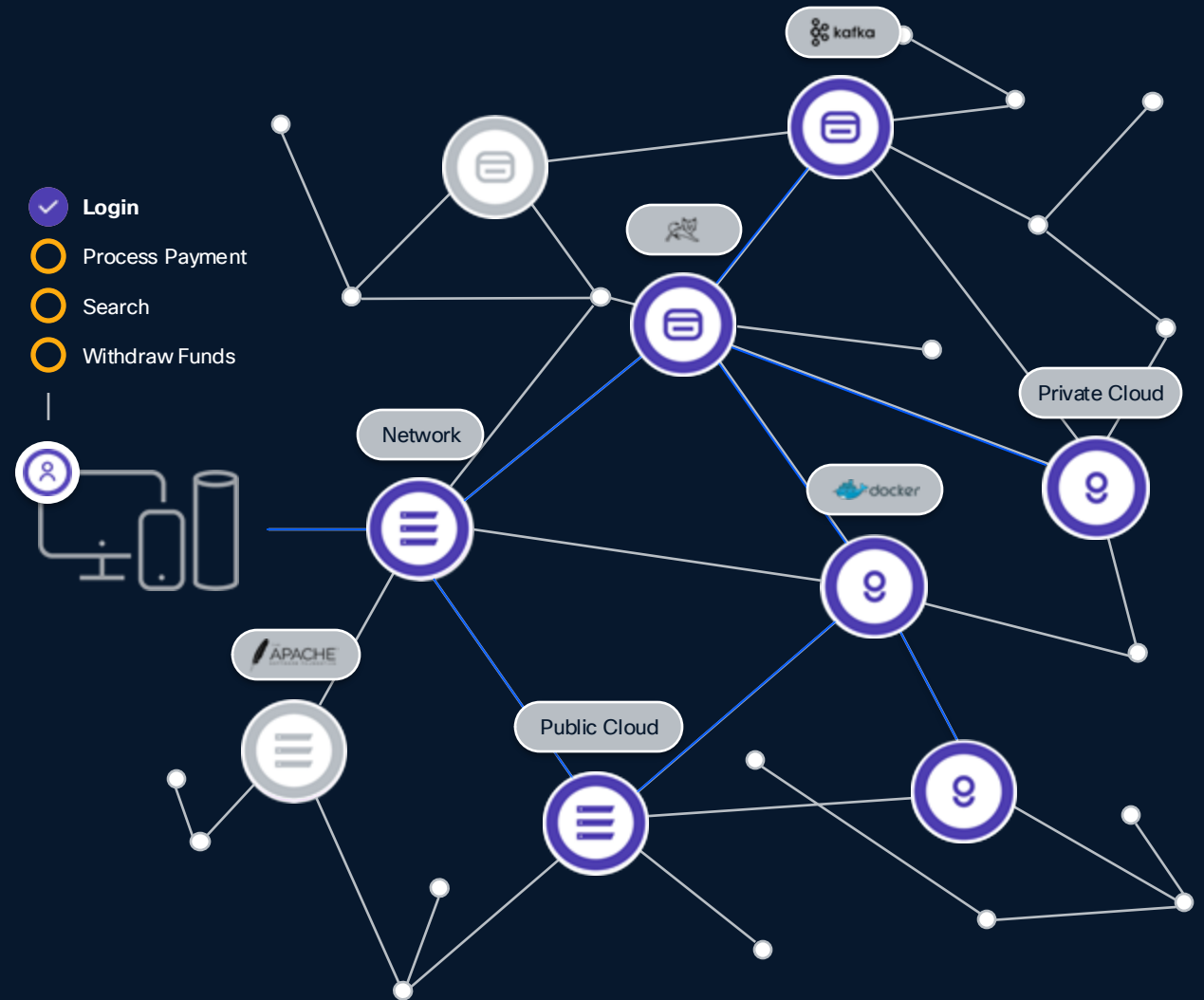
# Teams rely on scattered visibility

Disconnected toolchains lead to blind spots for problems that span teams & services



# Business context gets lost

It's hard to triage performance problems based on business impact



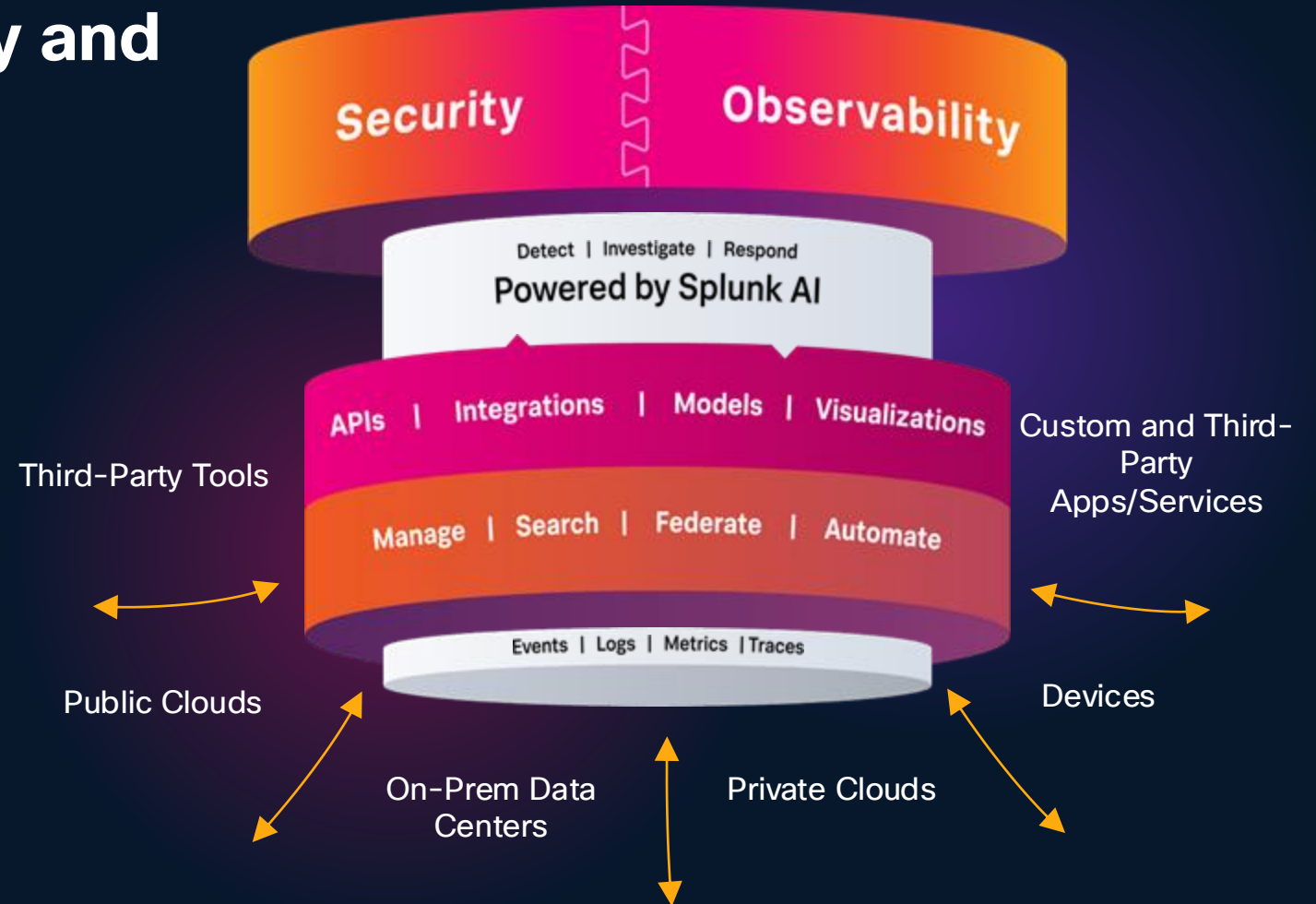
# Splunk's approach to Observability

Ensure the **resilience** of digital systems and reduce the **human toil** of operating them by letting **software** do more of the **heavy lifting**, to **identify problems, find root causes, and take corrective action.**



See the **business impact** of every performance problem

# Splunk: The Unified Security and Observability Platform



# Splunk Platform

Single source of truth, single resilience platform

...all teams working together with shared context



Any Data From Any Source

Ask Any Question

**IT Operations  
& Cap Planning**

**Service Delivery**

**Network, IoT, and  
Infrastructure**

**Business Insights**

**Security & Incident  
Response**

# New Search

Save AsCreate Table ViewClose

1index=\*All time

109,864 events (before 10/07/2022 15:09:04.000)No Event Sampling

JobPauseStopRefreshDownloadSmart Mode

Events (109,864)PatternsStatisticsVisualization

Format TimelineZoom OutZoom to SelectionDeselect1 day per col



ListFormat20 Per Page

Prev12345678...Next

< Hide FieldsAll Fields

SELECTED FIELDS

a host 5

a source 8

a sourcetype 3

INTERESTING FIELDS

# AcctID 100+

# bytes 100+

a clientip 100+

a Code 14

# date\_hour 24

# date\_mday 8

i	Time	Event
>	07/03/2022 18:24:02.000	[07/Mar/2022:18:24:02] VendorID=5036 Code=B AcctID=6024298300471575 host = vendor_sales source = tutorialdata.zip:\vendor_sales/vendor_sales.log sourcetype = vendor_sales/vendor_sales
>	07/03/2022 18:23:46.000	[07/Mar/2022:18:23:46] VendorID=7026 Code=C AcctID=8702194102896748 host = vendor_sales source = tutorialdata.zip:\vendor_sales/vendor_sales.log sourcetype = vendor_sales/vendor_sales
>	07/03/2022 18:23:31.000	[07/Mar/2022:18:23:31] VendorID=1043 Code=B AcctID=2063718909897951 host = vendor_sales source = tutorialdata.zip:\vendor_sales/vendor_sales.log sourcetype = vendor_sales/vendor_sales
>	07/03/2022 18:22:59.000	[07/Mar/2022:18:22:59] VendorID=1243 Code=F AcctID=8768831614147676 host = vendor_sales source = tutorialdata.zip:\vendor_sales/vendor_sales.log sourcetype = vendor_sales/vendor_sales
>	07/03/2022	[07/Mar/2022:18:22:48] VendorID=1239 Code=K AcctID=5822351159954740

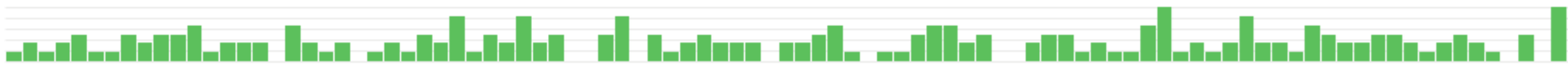
New Search

```
1 index="tutorialdata"
2 | where AcctID like "87%"
```

✓ 684 events (before 9/12/22 10:56:05.000 PM) No Event Sampling ▼

Events (684) Patterns Statistics Visualization

Format Timeline ▼ — Zoom Out + Zoom to Selection × Deselect



List ▼ / Format 20 Per Page ▼

< Hide Fields <span>☰ All Fields</span>		i	Time	Event
SELECTED FIELDS <i>a</i> host 1 <i>a</i> source 1 <i>a</i> sourcetype 1	>	6/11/22 6:23:46.000 PM	[11/Jun/2022:18:23:46] VendorID=7026 Code=C AcctID=8702194102896748	host = vendor_sales   source = tutorialdata.zip:/vendor_sales/vendor_sales.log   sourcetype=...
	>	6/11/22 6:23:46.000 PM	[11/Jun/2022:18:23:46] VendorID=7026 Code=C AcctID=8702194102896748	host = vendor_sales   source = tutorialdata.zip:/vendor_sales/vendor_sales.log   sourcetype=...
INTERESTING FIELDS # AcctID 100+ <i>a</i> Code 14 # date_hour 24 # date_mday 8	>	6/11/22 6:22:59.000 PM	[11/Jun/2022:18:22:59] VendorID=1243 Code=F AcctID=8768831614147676	host = vendor_sales   source = tutorialdata.zip:/vendor_sales/vendor_sales.log   sourcetype=...
	>	6/11/22 6:22:59.000 PM	[11/Jun/2022:18:22:59] VendorID=1243 Code=F AcctID=8768831614147676	host = vendor_sales   source = tutorialdata.zip:/vendor_sales/vendor_sales.log   sourcetype=...



# Machine Data Contains Critical Insights

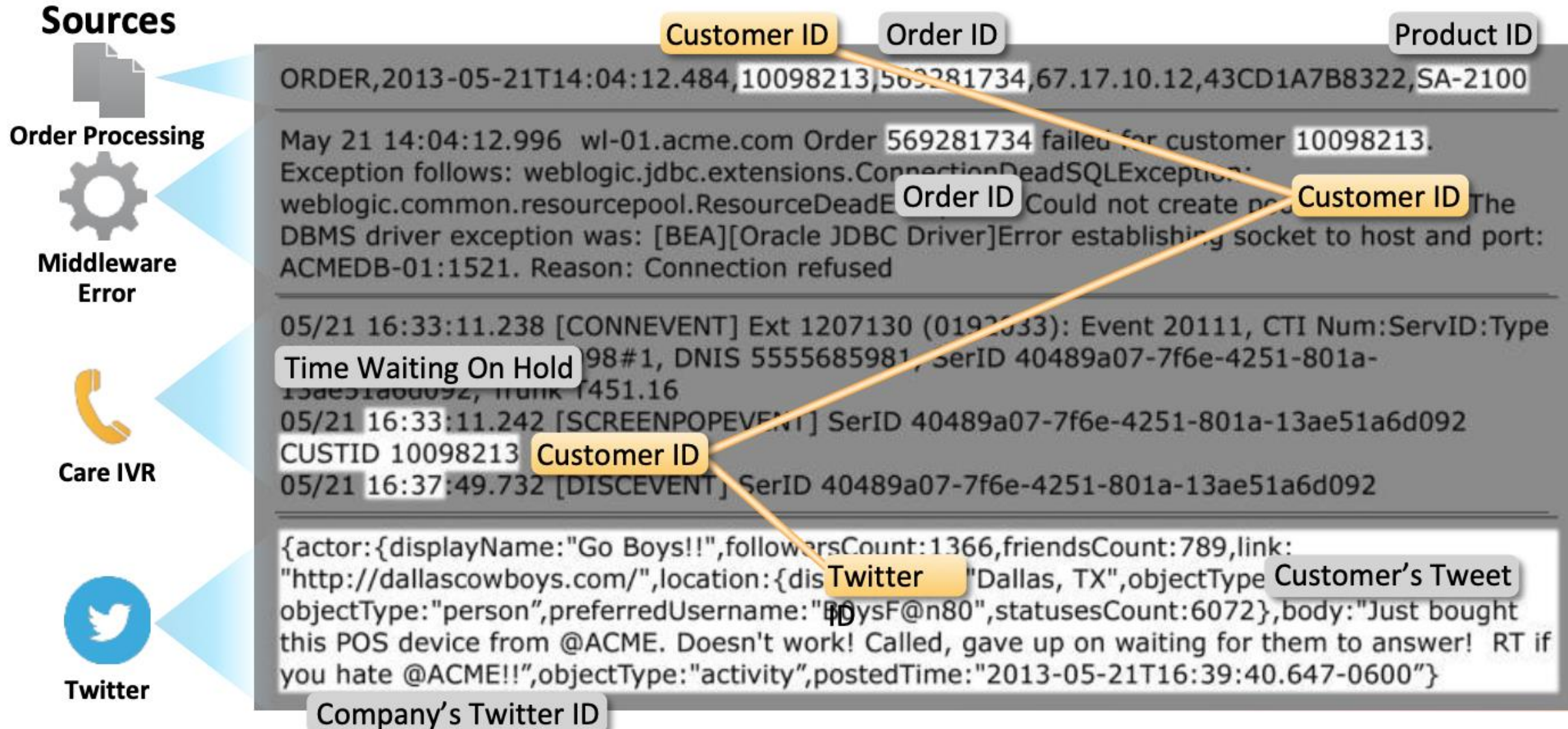


Table of Top 10 Issues

Site: Global

Issue Type ⇅	Priority ⇅	Count ⇅	Severity ⇅	Last Occurred ⇅	Names ⇅	Status ⇅	Device Name ⇅	IP Address ⇅	MAC Address ⇅	Family ⇅	Role ⇅	Site ⇅
EIGRP_Peering	P1	5	HIGH	2025-05-12 16:18:25	EIGRP Adjacency Failed on Device "LO-CN" Interface Vlan140 (Interface description: to_PDX_access) with Neighbor 10.93.140.7	active	LO-CN	10.93.141.20	30:8b:b2:ba:c2:80	Switches	ACCESS	Global/OR/LO/Floor-3
						active	PDX-MGMT	10.93.141.29	40:14:82:f6:5f:80	and Hubs	ACCESS	
						active	PDX-MGMT	10.93.141.29	40:14:82:f6:5f:80	Switches	ACCESS	
					EIGRP Adjacency Failed on Device "PDX-MGMT" Interface Vlan32 (Interface description: --) with Neighbor 10.93.141.42	active	PDX-RO	10.93.141.23	00:1e:e6:06:0d:00	and Hubs	BORDER	
						active	PDX-CORE	10.93.141.18	6c:03:b5:66:60:00	Switches	ROUTER	
										and Hubs	CORE	
					EIGRP Adjacency Failed on Device "PDX-MGMT" Interface Vlan32 (Interface description: --) with Neighbor 10.93.141.41					Routers		
										Switches		
										and Hubs		
BGP_Down	P1	2	HIGH	2025-05-12 17:08:44	BGP is down on 'PDX-RO' with neighbor '10.93.141.17'	active	PDX-RO	10.93.141.23	00:1e:e6:06:0d:00	Routers	BORDER	Global/OR/PDX/Floor-2
					BGP is down on 'PDX-MGMT' with neighbor '10.93.141.41'	active	PDX-MGMT	10.93.141.29	40:14:82:f6:5f:80	Switches	ROUTER	
										and Hubs	ACCESS	
infra_link_down	P1	2	HIGH	2025-05-13 04:01:04	Interface "GigabitEthernet0/0" (Interface description: --) is down on network device "NYC-ACCESS"	active	NYC-	10.93.141.26	30:8b:b2:b5:32:00	Switches	DISTRIBUTION	Global/NY/NYC/Floor-8
						active	ACCESS	10.93.141.28	90:77:ee:ac:ab:80	and Hubs	CORE	
					Interface "GigabitEthernet1/0/18" (Interface description: --) is down on network device "LO-BN"		LO-BN			Switches		
BGP_Flap	P2	2	HIGH	2025-05-12 16:15:17	BGP is Flapping on Device "PDX-RO" with Neighbor 10.93.141.17	active	PDX-RO	10.93.141.23	00:1e:e6:06:0d:00	Routers	BORDER	Global/OR/PDX/Floor-2
					BGP is Flapping on Device "PDX-MGMT" with Neighbor 10.93.141.41	active	PDX-MGMT	10.93.141.29	40:14:82:f6:5f:80	Switches	ROUTER	
global_ap_disconnect_trigger	P2	1	HIGH	2025-05-12 15:47:58						and Hubs	ACCESS	Global/OR/LO/Floor-3
					AP(s) disconnected from WLC on Switch "LO-BN".	active	LO-BN	10.93.141.28	90:77:ee:ac:ab:80	Switches	CORE	
default_trap_event_trigger	P3	1	HIGH	2025-05-13 04:00:59	Stack member 1 removed from stack.	active	PDX-MGMT	10.93.141.29	40:14:82:f6:5f:80	Switches	ACCESS	Global/OR/PDX/Floor-2



## Overview

Edit

Export ▾

...

This dashboard provides an overview of various metrics and statistics in the Cisco Catalyst network.

Time Range

Cisco Catalyst Center Host

Site

Last 24 hours ▾

https://10.93.141.45 ▾

✕

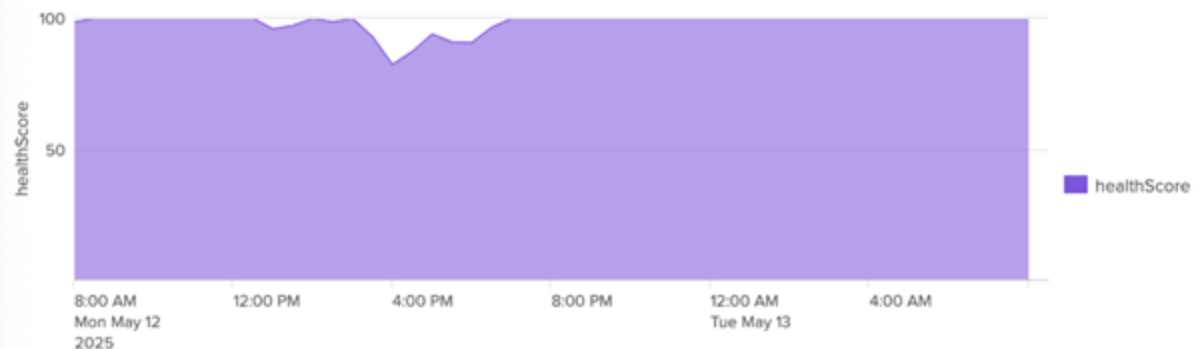
Global

Submit

[Hide Filters](#)

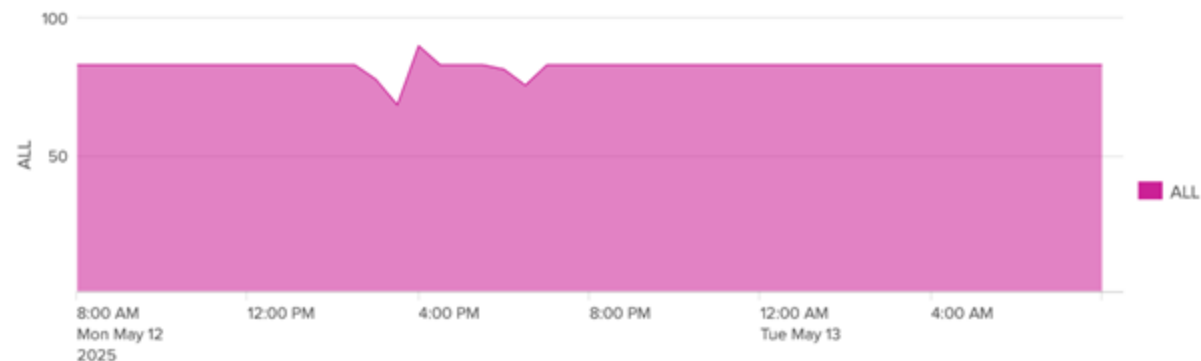
### Average Network Health Score

Site: Global



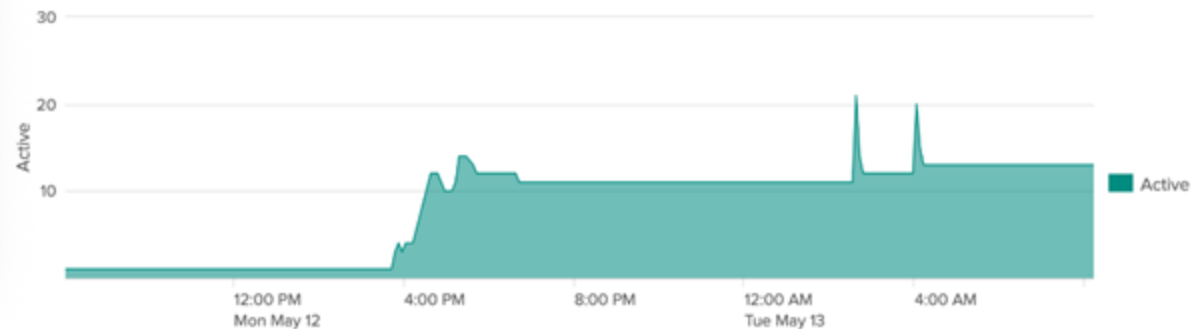
### Average Client Health Score

Site: Global



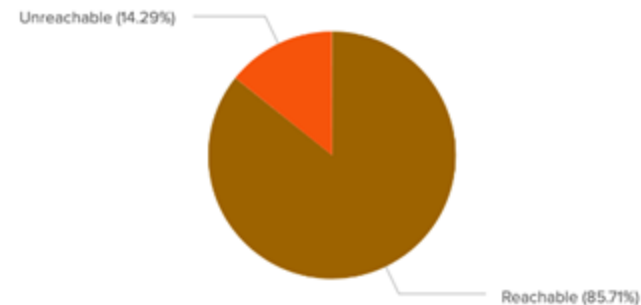
### Total Number of Active Issues

Site: Global



### Device Reachability Type Percentages

Site: Global



Catalyst Center Overall

Cisco Catalyst Center Overall

Global Time Range

All time

Catalyst Center

\*

CatC Category

\*

Device Role

\*

Device Family

\*

Device Type

\*

Devices PID

\*

Collection Status

\*

Reachability Status

\*

Compliance

\*

Region

\*

State

\*

City

\*

Building

\*

Floor

\*

Controller Total

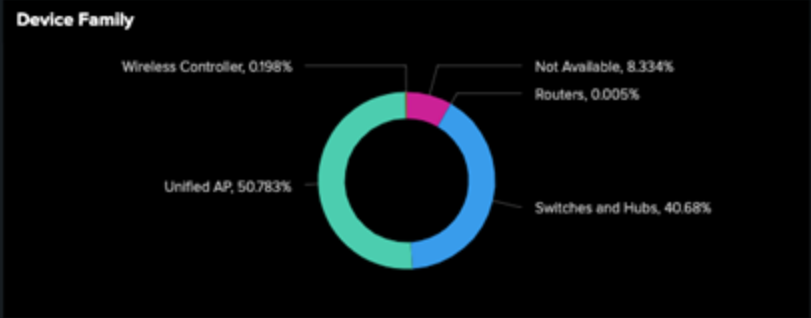
9

Network Device Total

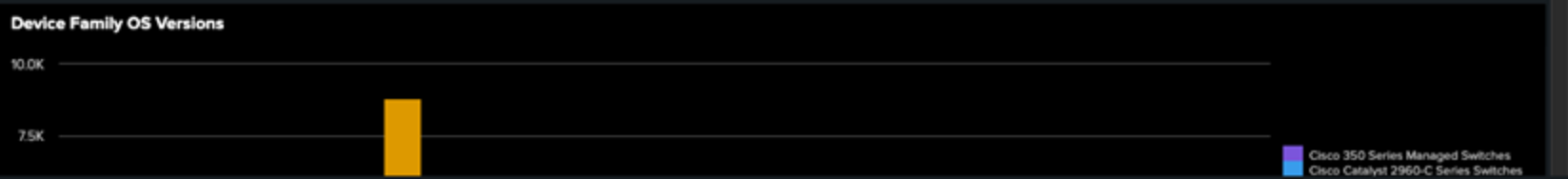
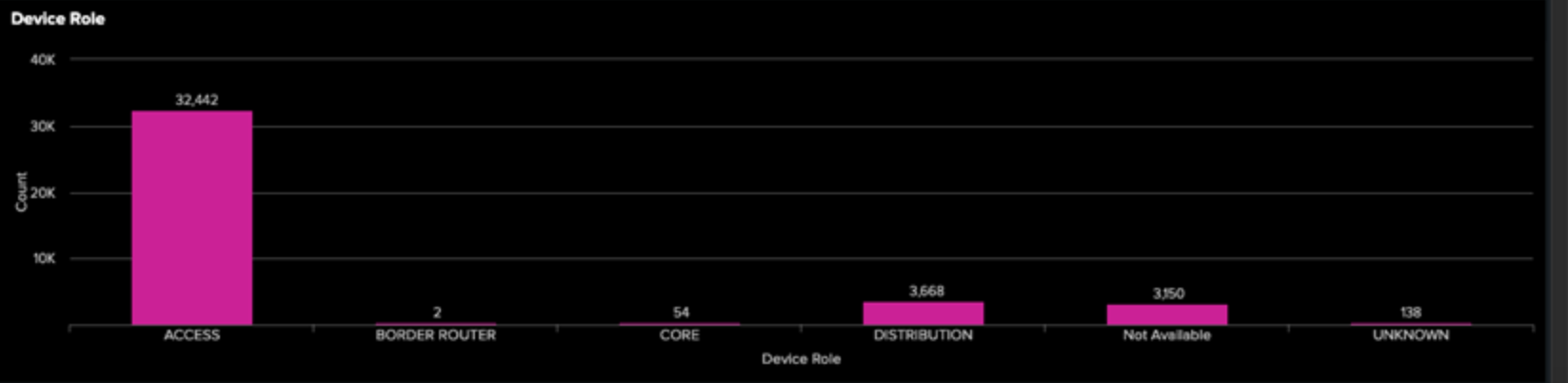
39,454

Network Device Health

Fair	Good	No Health	Not Available	Poor
1,874	26,920	6,842	3,150	668



39,454







Edit

Export ▾

...

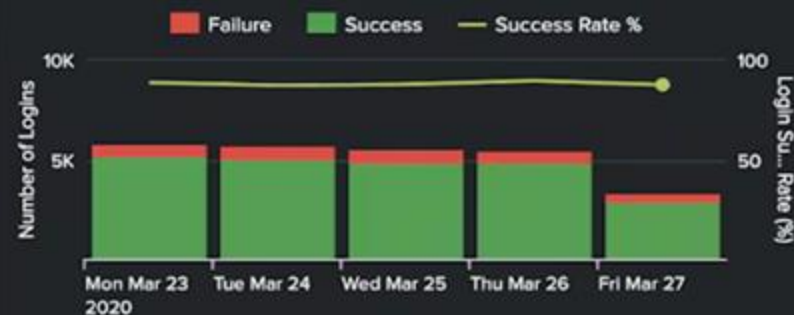
RWI - Executive Dashboard [Show Filters](#)

## Active VPN Sessions

2,451

**Description:** Current number of connected workers.

## Number of VPN Logins

**Description:** Number of workers connecting to VPN over time on a daily basis.

## Active Zoom Meetings

419

**Description:** Current number of Zoom meetings.

## Number of Zoom Meetings

**Description:** Number of Zoom Meetings created over time on a daily basis.

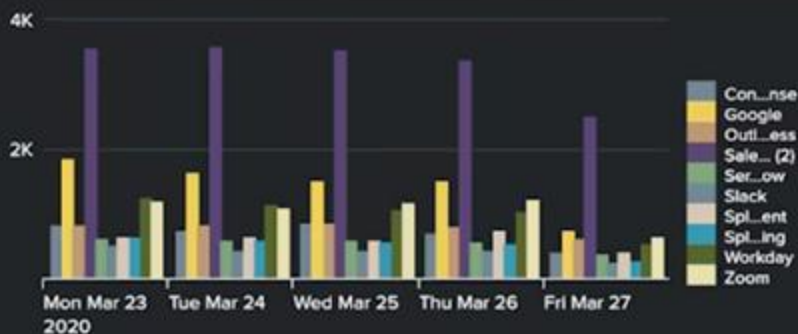
## Most Popular App Today

Salesforce

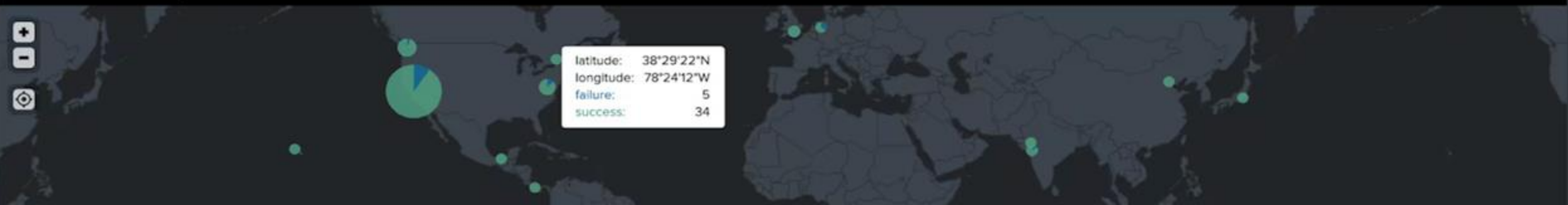
718 Unique Users Accessed the App Today

**Description:** Most popular apps accessed today.

## Top Apps

**Description:** Top applications accessed over time.

## Connected Workforce by Location



Estimated Billing - Current Month

Edit

More Info

Download

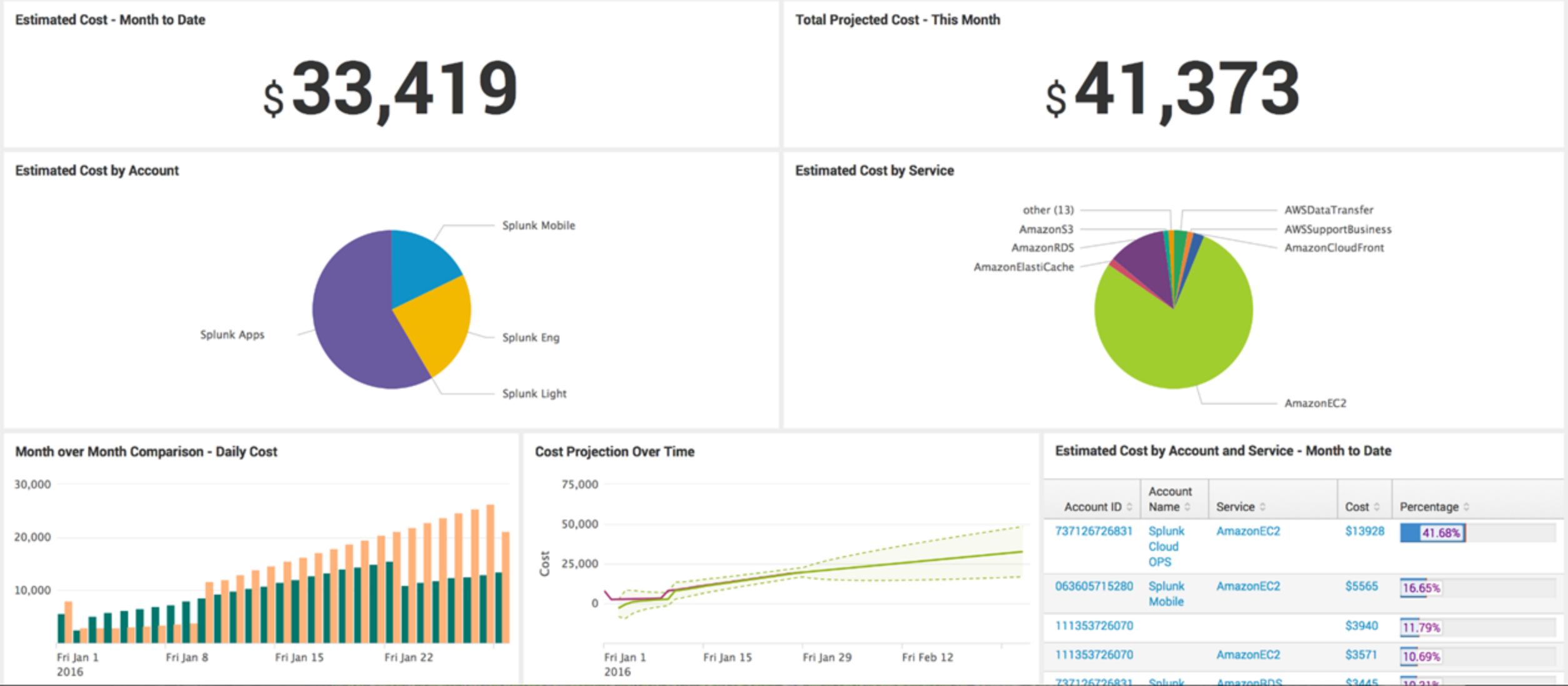
Print

Account ID

Currency

⌕ All

USD





Power Utilization

4,151 0%

Updated a few seconds ago



Water Capacity

102% ↓ -5%

Updated a few seconds ago



Room Temperature

106° ↓ -4

Updated a few seconds ago



Power Usage



Server Room Heatmap

HVAC - 1

On

Fan Speed 124

Safe 0°-50°

Low 50°-70°

High 70°-100°



Anomalies Detected

System	Rack	Devices	Value
Power	2	PDU-02	3400
Power	2	PDU-07	2375
Power	2	PDU-12	2245

Host	Priority	Rack	Row
mysql-02	High	2	A
storage_web...	Medium	2	A
storage_exc...	High	2	C
db-01	Critical	2	A
websphere-01	Medium	2	A
websphere-01	Medium	2	A

Data Center Sensors

Unified Sustainability Dashboard

The  
Splunk  
T-Shirt  
Co.

Energy Cost

To Date This Year

\$95,729



Total CO<sub>2</sub>e

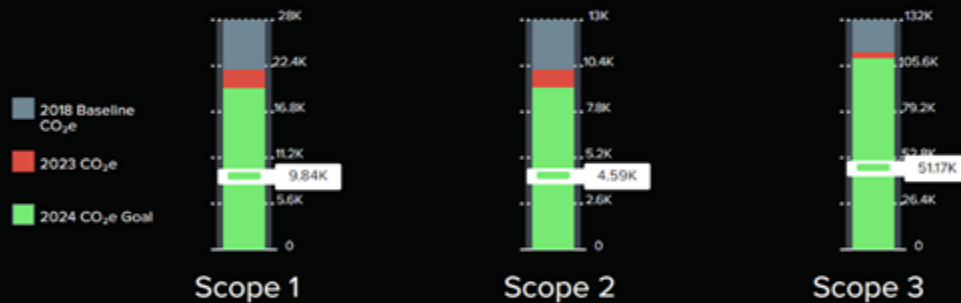
To Date This Year

134,020kg



CO<sub>2</sub>e Emissions

Year To Date



This Year



Last Year



Realtime Performance

Last 4 hours

CO<sub>2</sub>e kg

Buildings

3,804

End User Devices

1,465

Data Centers

6,893

Factories

7,306

Energy kWh

2,808

1,213

5,285

5,534

Energy \$

896

520

1,144

1,009



# Splunk Observability

Meeting customers where they are

Traditional  
environments

Cloud native  
environments

## Unified Observability Experience

APM

Infrastructure  
Monitoring

Digital  
Experience  
Monitoring

Business  
Insights

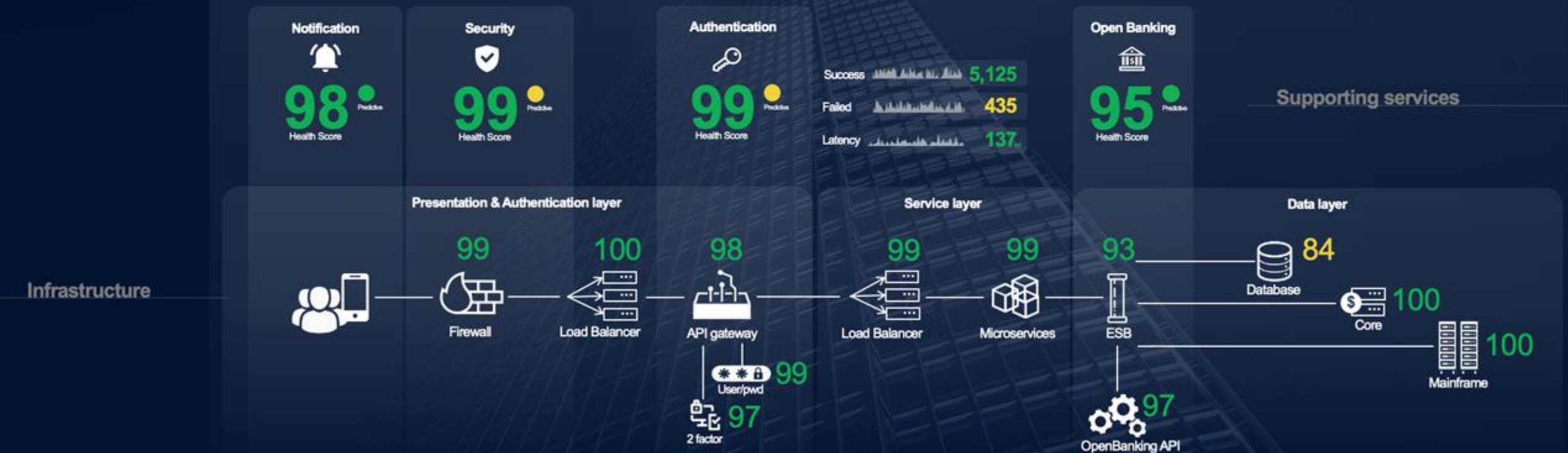
Application  
Security

Observability  
for AI

Network  
Observability

**Splunk Platform**





IT Services

Global Time Range

Last 24 hours

splunk> IT Services Dashboard

84 Overall Health Score

77 Predictive Health Score



Overall IT Health Scores of all Locations



Location	Emails	Documents	Phone Calls	IT Health Score
Zurich	57	27	63	48
Vienna	617	109	33	86
Luxembourg	1222	190	27	90
Dubai	541	111	28	95
London	912	118	40	95

< Prev 1 2 Next >

IT Services

92 Service Health Score



Applications

93 Application Health Score



Microsoft 365

99 Health Score

Teams

92 Health Score

Salesforce

93 Health Score

Azure AD

93 Health Score

On-premise



Exchange

54 Health Score

SharePoint

92 Health Score

Kubernetes

93 Health Score

Unify

99 Health Score

Network

92 Health Score

Firewall

92 Health Score

Switch

97 Health Score

Web Server

96 Health Score

Router

92 Health Score

Access Points

93 Health Score

VPN

93 Health Score

Virtualization

96 Health Score

VMware VM

95 Health Score

Citrix

96 Health Score

Hyper-V

99 Health Score

NetScaler

99 Health Score

On-premise Infrastructure

45 Health Score

Windows Server

22 Health Score

CPU Utilization

98.6%

Memory Utilization

99.2%

\*nix Server

92 Health Score

CPU Utilization

20.4%

Memory Utilization

33.1%

Database & Storage

93 Health Score

Database Throughput

295 queries/sec ↑2

Storage Utilization

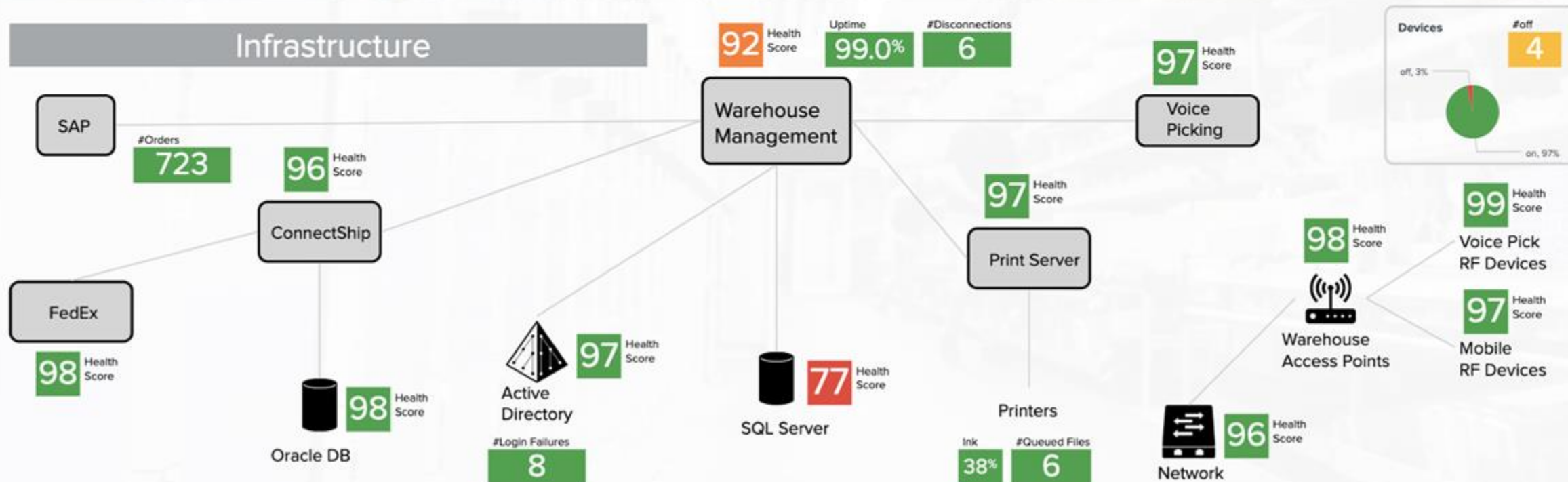
73.7%



## Warehouse Management



## Infrastructure



## Order to Cash Service

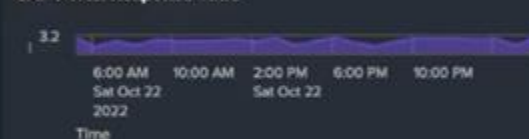
Total Value of Open Orders **11.32m**



### Presentation



#### SAP Portal Response Time



#### SAP Portal Latency



### Application



#### DIA Response Time



#### T-RFC queue (SM58)



#### Failed Jobs



#### Failed Updates



#### Q-RFC queue (SMQ1)



#### ABAP Dumps



#### SAP Locks (>1 day)



#### Failed Idocs



### Infrastructure



#### CPU (%)



#### Memory (%)



#### Disc Response TL...



#### Network In



#### Network Out



## SAP Predicted Health Score



New Order Acquisition in last hour

**290** 0%



Goods Issue in last hour

**232** ↓ -3%



Invoice Creation in last hour

**240** ↓ -4%



Sales Orders in last hour

**88** ↑ 9%



# Splunk Security

Powering the SOC of the future with the leading TDIR solution

## Unified threat detection, investigation & response

Splunk Asset & Risk  
Intelligence

Continuous asset discovery

Splunk Attack Analyzer

Automated threat analysis

Splunk SOAR

Security automation

Splunk Enterprise Security

SIEM

**Splunk Platform**

**Traditional  
environments**

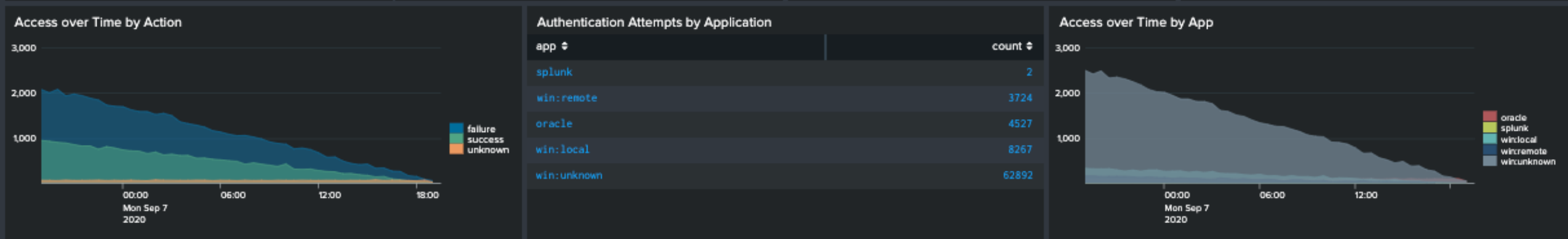
**Cloud native  
environments**



# All Authentications [Show Filters](#)

[Edit](#) [Export](#) [...](#)

Failed Authentications	Successful Authentications	Applications	Users
53,233	23,277	5	206



Top Authentications by Source			Top Authentication Sources by Unique User Count		
src	sparkline	count	src	sparkline	user_count
oracle-test-host		1008	win-lenovo-62060		99
192.168.1.121		930	macbook-74273		98
192.168.1.120		860	win-hp-30230		98
10.9.8.8		845	win-lenovo-13171		98
10.9.8.7		840	NY_DB_103		97
NY_APP_002		714	macbook-13273		97
win-hp-68859		708	win-lenovo-81712		97
« Prev 1 2 3 4 5 6 7 8 9 10 Next »			« Prev 1 2 3 4 5 6 7 8 9 10 Next »		



High Severity Intrusion Alerts v Previous 24 Hrs

2,776<sup>↑</sup><sub>1,978</sub>

Infected Hosts v Previous 24 Hrs

54<sup>↑</sup><sub>1</sub>

Malware Signatures v Previous 24 Hrs

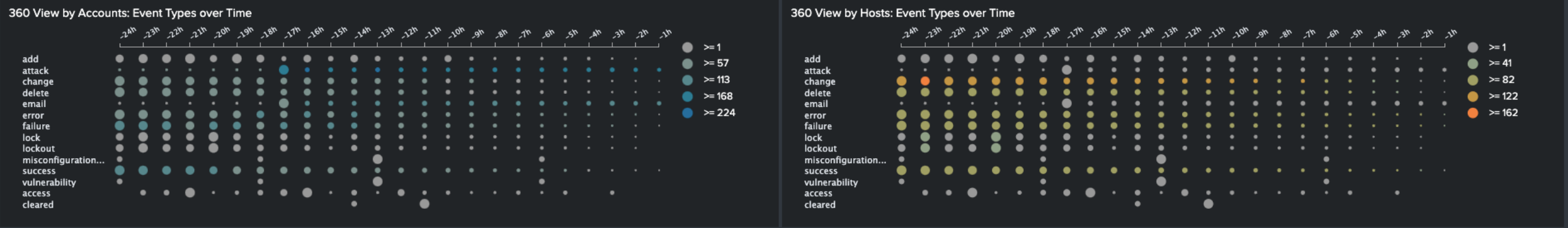
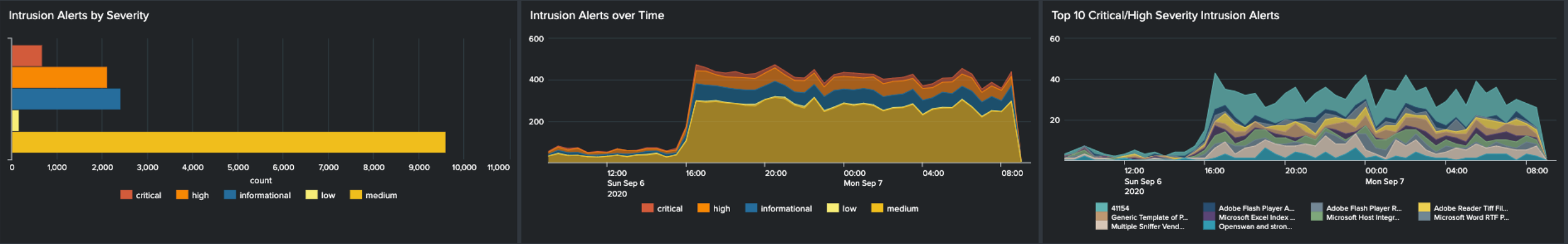
13<sup>↑</sup><sub>3</sub>

Hosts and Devices Reporting

234<sup>↓</sup><sub>-1</sub>

Accounts Monitored

211<sup>↓</sup><sub>-30</sub>





# Security Posture

408 ↑33

Total Case Count

7 ↓-2

Investigations Opened

2 0

UBA Anomalies Detected

10 0

New Infections Detected

[Click For Data Glossary](#)

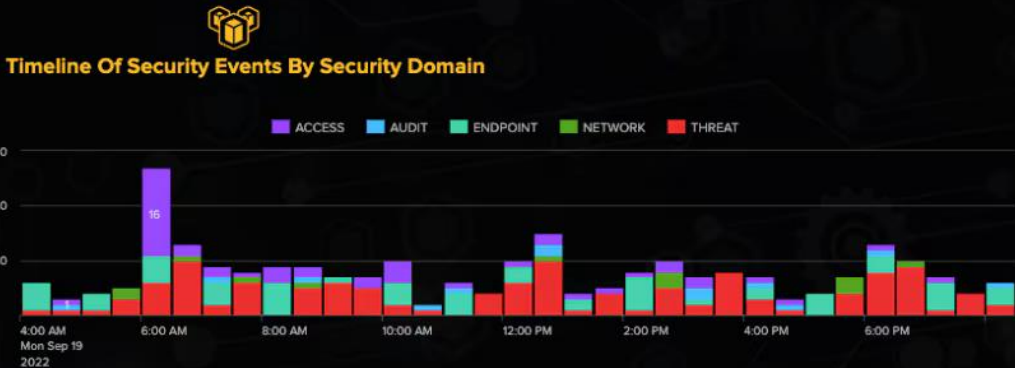
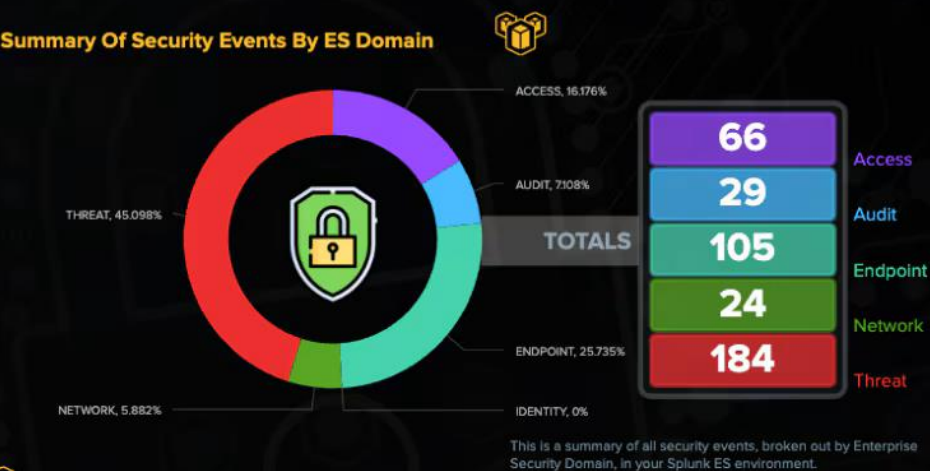
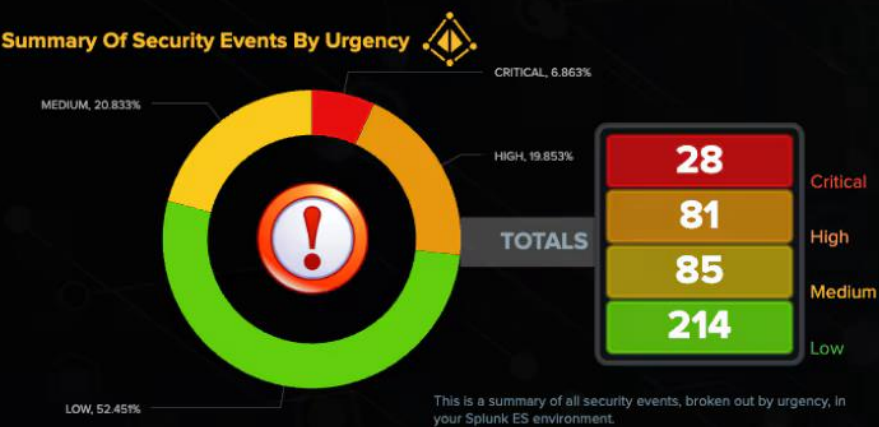
Overall Security Posture ✓

CRITICAL

HIGH

MODERATE

LOW



Summary Of Security Events By Rule Name

This table is a detailed listing of top security events by security domain.

rule_name	security_domain	sparkline	count
Risk Threshold Exceeded For Object Over 24 Hour Period	threat		178
Host With Multiple Infections	endpoint		101
Excessive Failed Logins	access		66
Personally Identifiable Information Detected	audit		29
Abnormally High Number of HTTP Method Events By Src	network		24

# We bring your teams together



## The Unified Data Platform

**Thank you**

