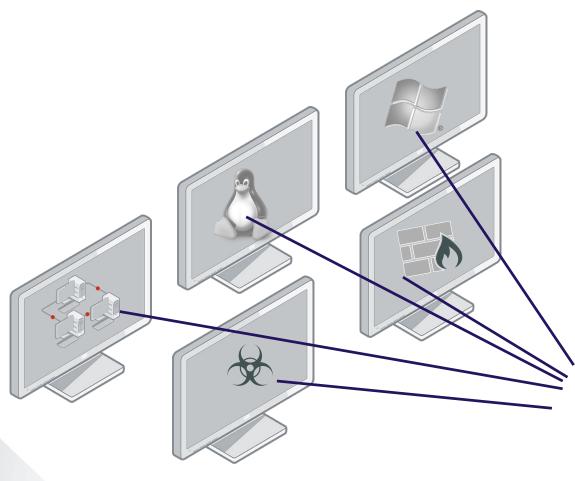


FortiSIEM

Visibility, Correlation, Automated Response and Remediation in a single, scalable solution

Silviu Pufan Channel Systems Engineer – SEE

IT&C Monitoring – "No Time for Downtime"



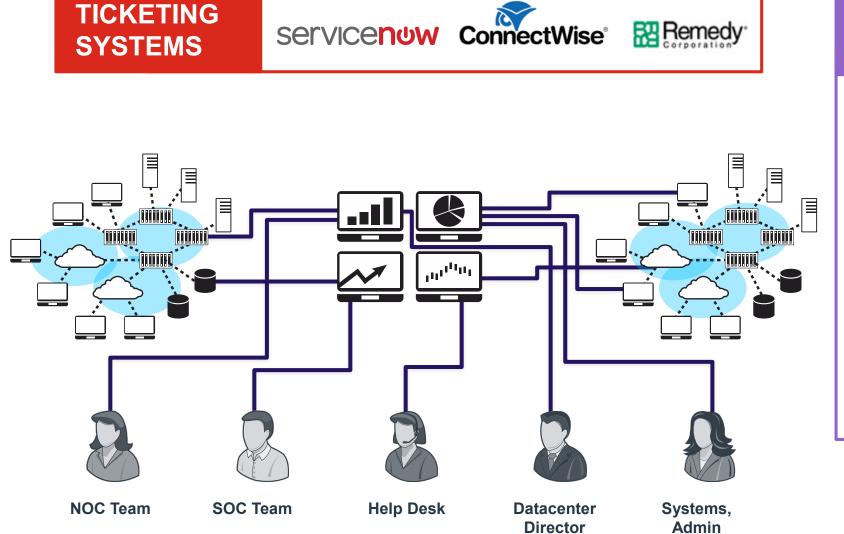
- Many systems to monitor
- When an incident occurs, investigations can be very time consuming.
- Could we have detected the incident earlier?
- Are we still compromised or at Risk?
- Let's hope not.....





Current monitoring is not scalable.. Silo'd tools









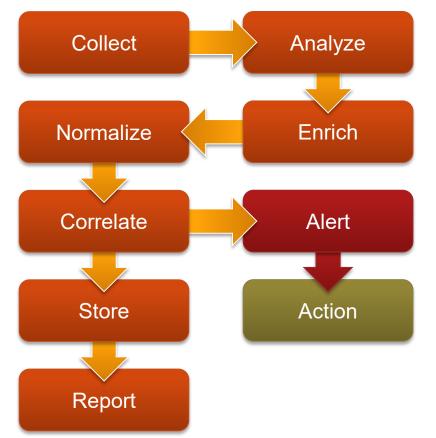
Dynamics of Current Conditions



Complexity



So what is SIEM



- Security Information & Event Management
- Input Collects logs
- Transformation Analysis/Correlation
- Output Alerts/Reports/Dashboards

May 6 17:55:48 squid[1773]: [ID 702911 local4.info] 192.168.20.39 1715 2.2.2.2 172.16.10.6 3128 674 - - - - [06/May/2008:17:55:48 -0700] GET "http://mail.abc.com/mail/?" HTTP/1.1 302 1061 568 "http://www.abc.com/" "Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.8.1.14) Gecko/20080404 Firefox/2.0.0.14" TCP_MISS:DIRECT

SIEM vs. FortiSIEM

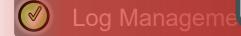
Analytics

Application Log Apalysis











Threat Intelligence

FortiSIEM

Single Pane of Glass

Rapid & Flexible Integrat

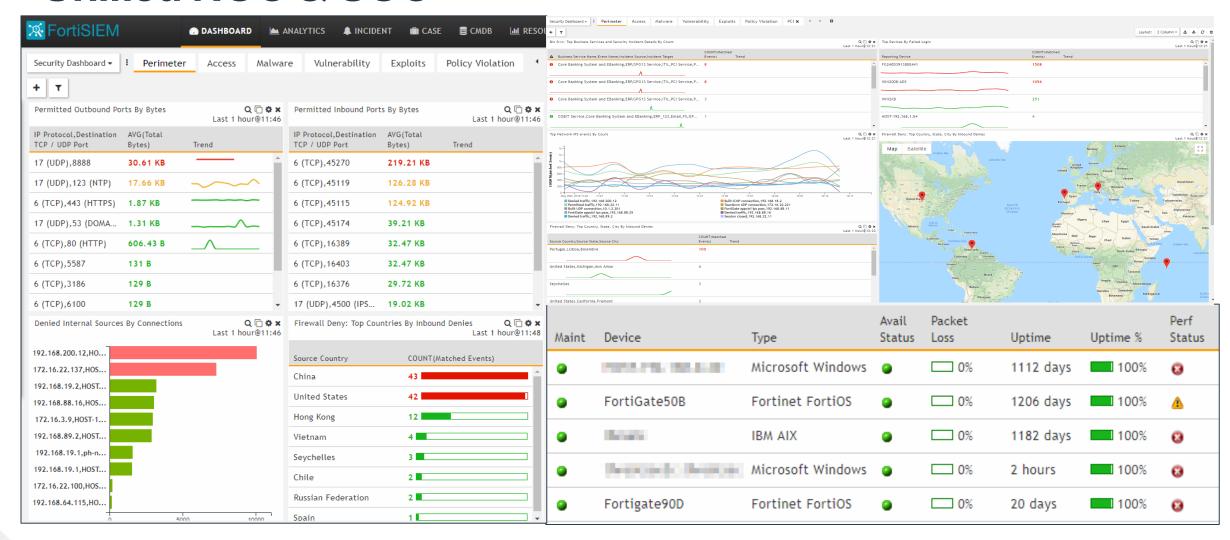
Gartner **SIEM** Capabilities

Complexity



Skilled Personnel

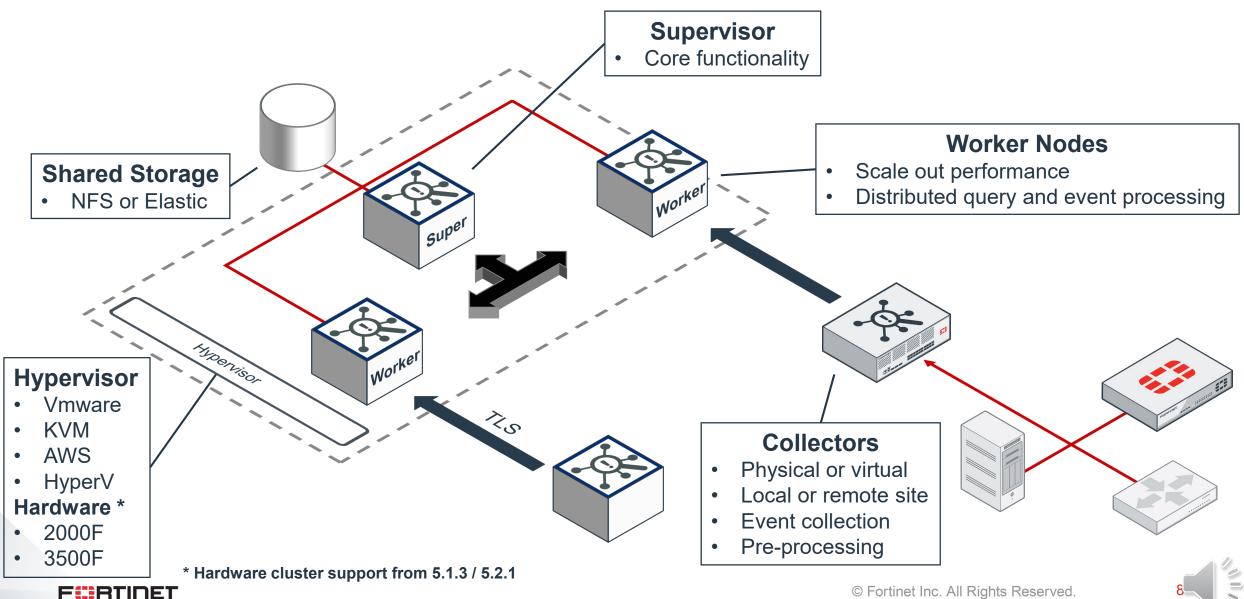
Unified NOC & SOC







Scalable Architecture





FortiSIEM Incident Remediation

75/

Supervisor

- 1. Rule triggered
- 2. Incident generated
- 3. Remediation actioned

Collector

- 1. Remediation script executed
- 2. Enforcement device reconfigured

Multi-vendor remediation

- Inbuilt remediation script library
- Custom remediation script support
- Automatic or manual remediation

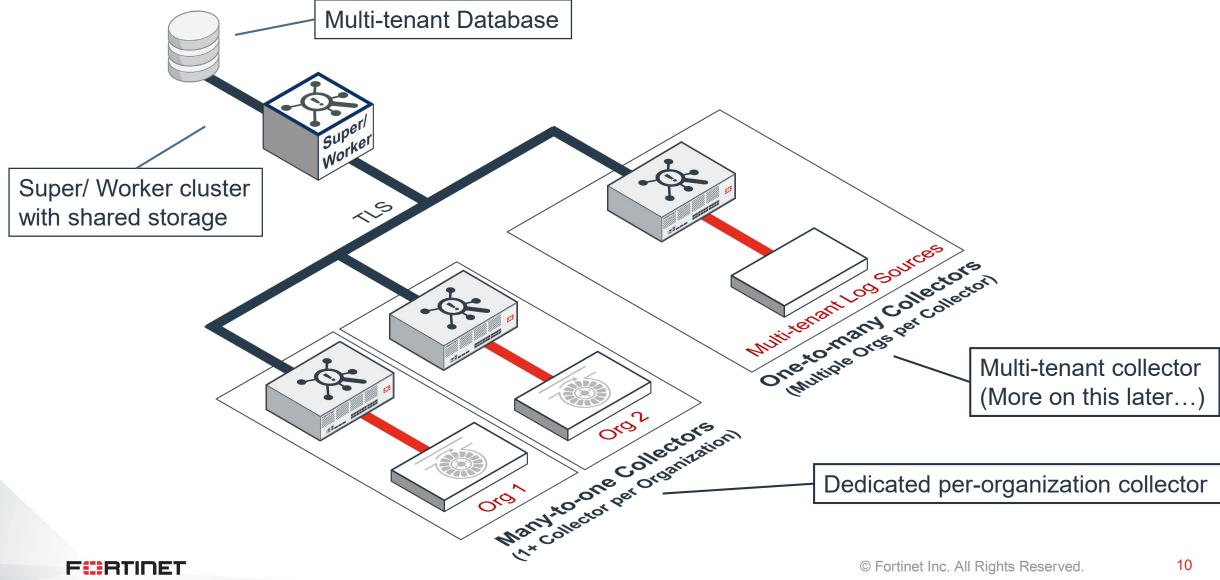
Enforcement Device

- 1. Enforces remediation action
 - 1. Block/ quarantine device
 - 2. De-authenticate user
 - 3. Etc...



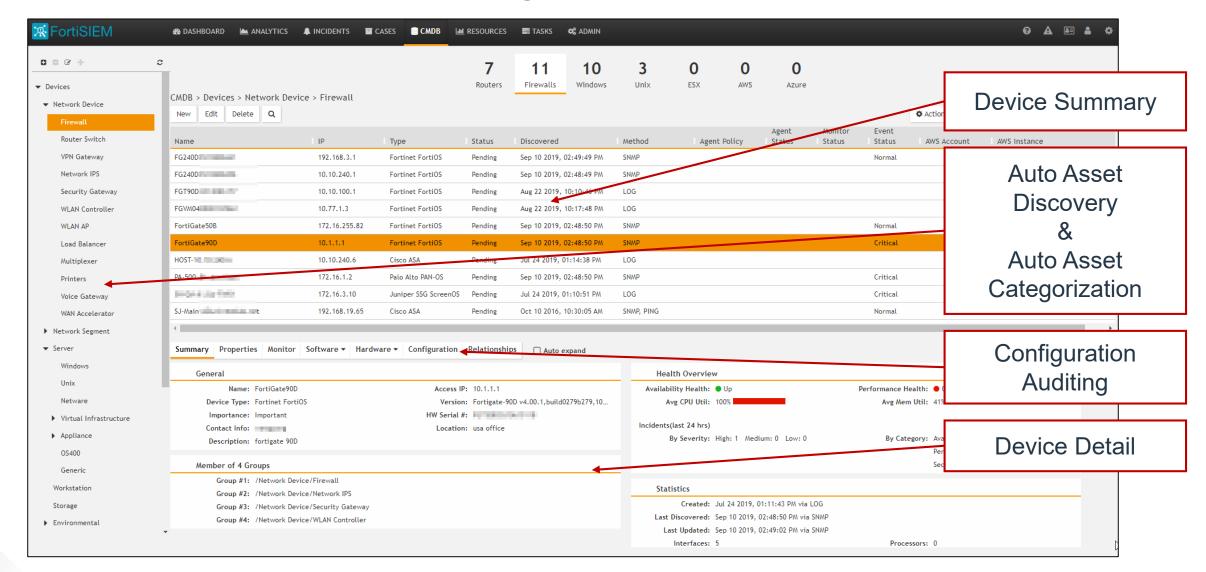


Multi-tenant Architecture





FortiSIEM CMDB Summary

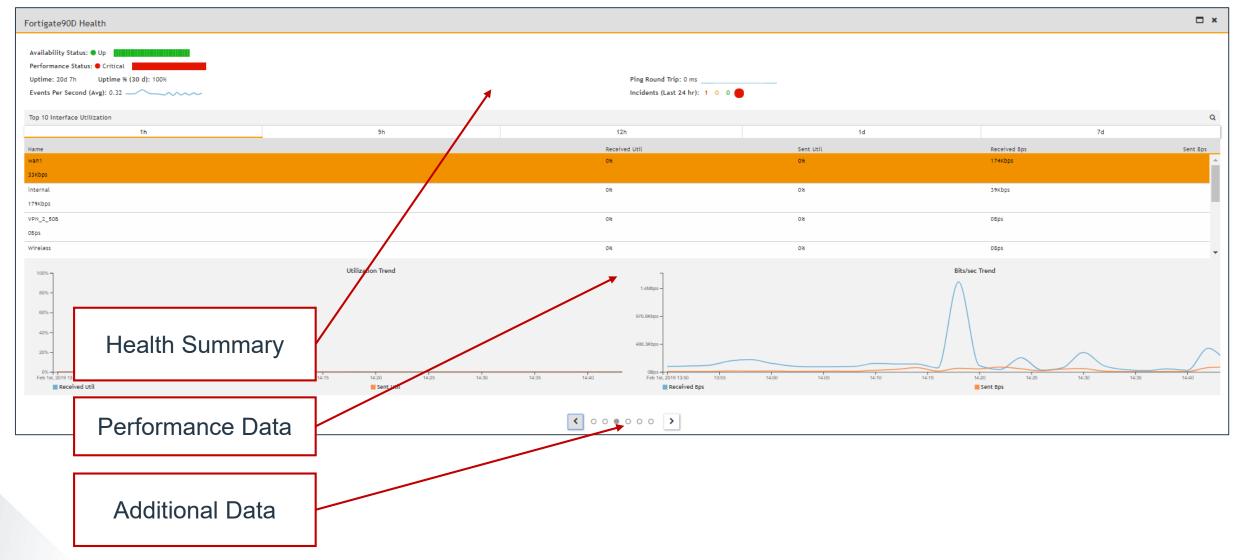






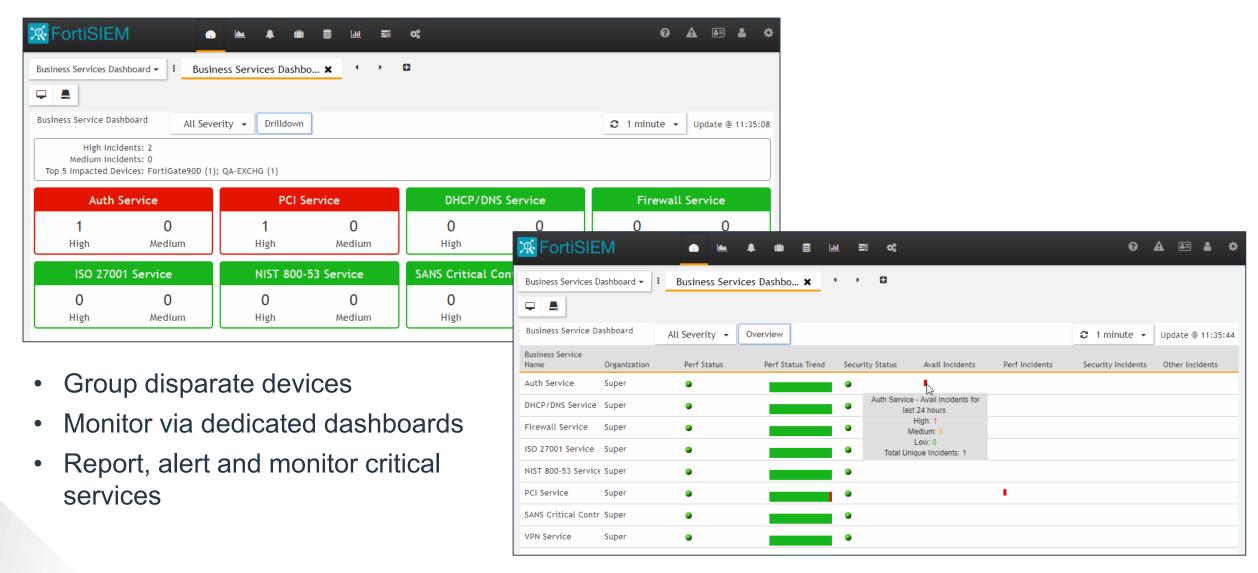
FERTIDET

CMDB Performance and Availability Monitoring





CMDB Business Services

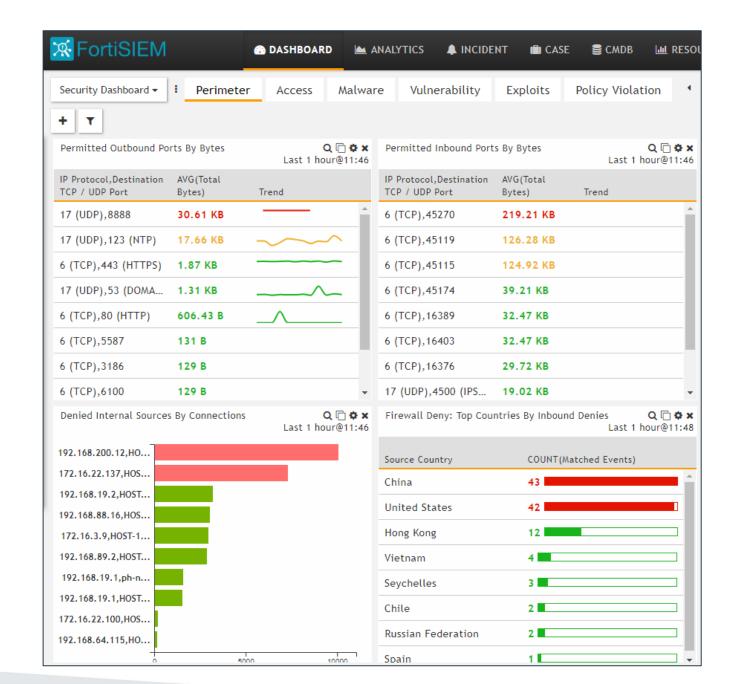






Dashboards

- Multiple dashboard types
 - Widget
 - Device Summary
 - Business Service
 - Identity & Location
 - Interface Usage
 - PCI
- Dashboard slideshow
- Customizable data visualization
- Multi dashboard support
- RBAC
- Shared dashboards





Dashboard Visualizations



Wide range of data visualizations, including:

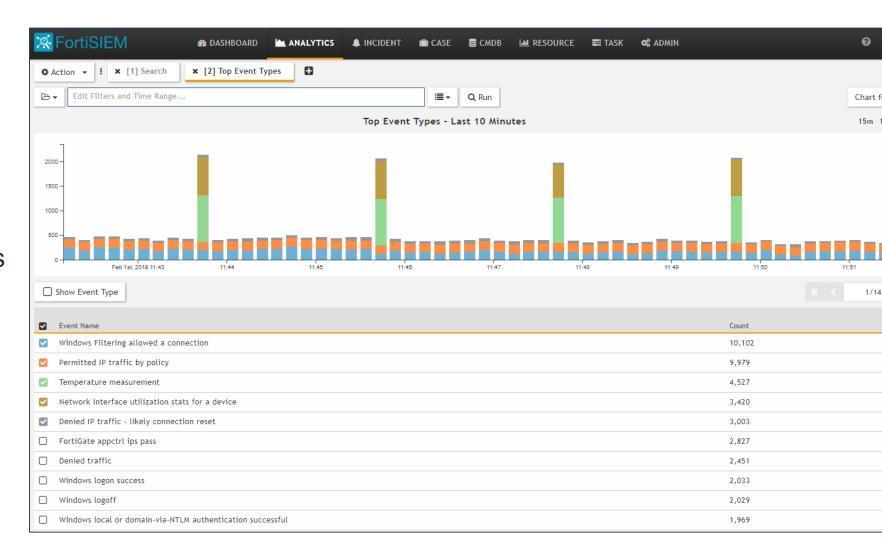
- Bar and line chart
- Table
- Sankey and chord
- Choropleth
- Starburst
- Bubble
- Donut
- Heat map
- Pivot table
- ... and more!





FortiSIEM Analytics

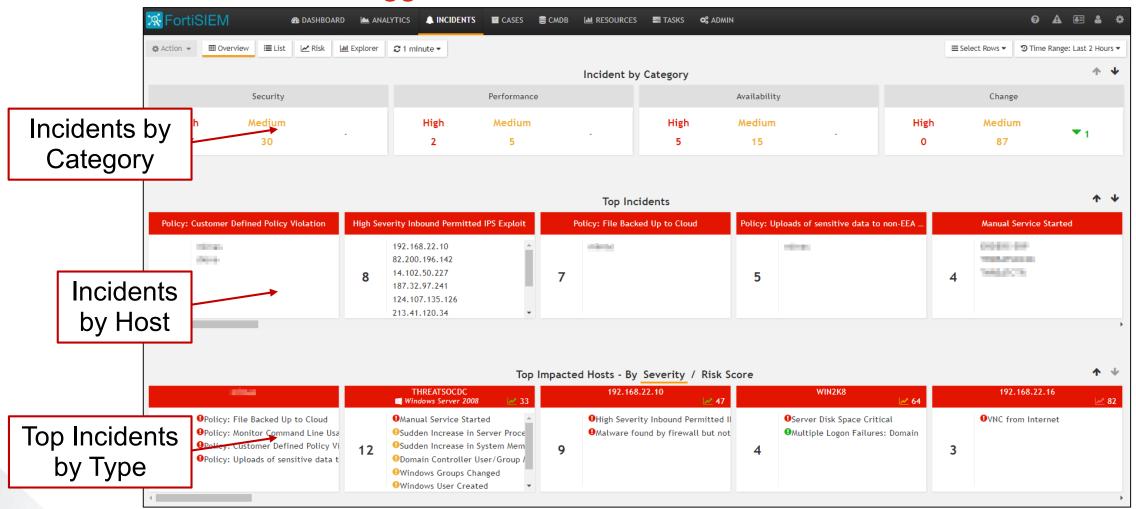
- Analytics
 - Real time
 - Historical
- 2000+ prebuilt reports
- 600+ inbuilt rules
- Custom rules and reports
- Easy to use GUI
 - Multi tab
 - Easy to use query builder





Incident Summary Dashboard

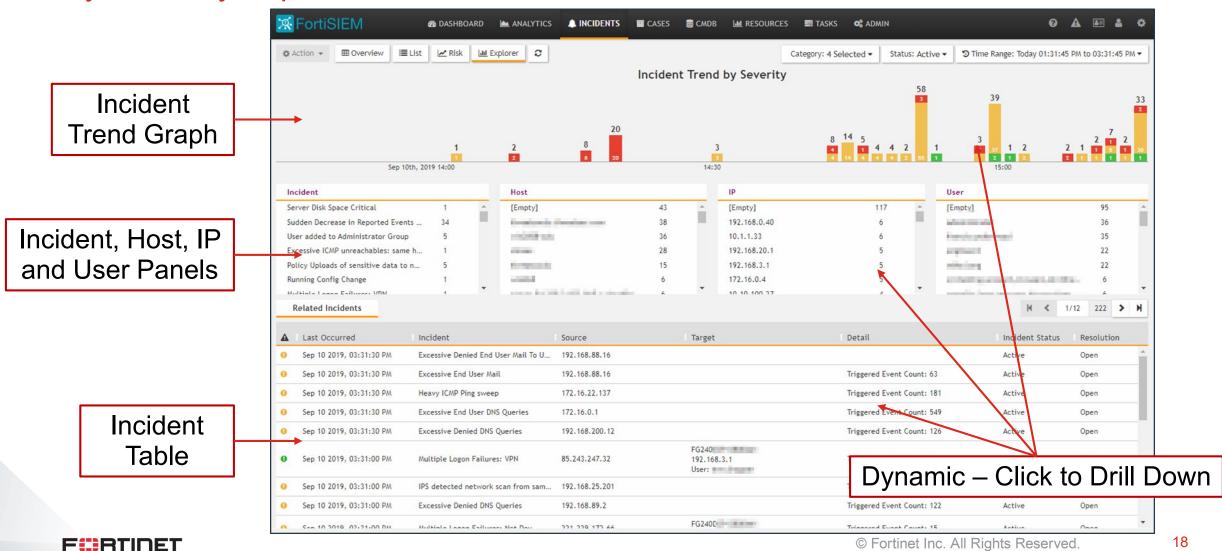
At-a-Glance View of Triggered Incidents





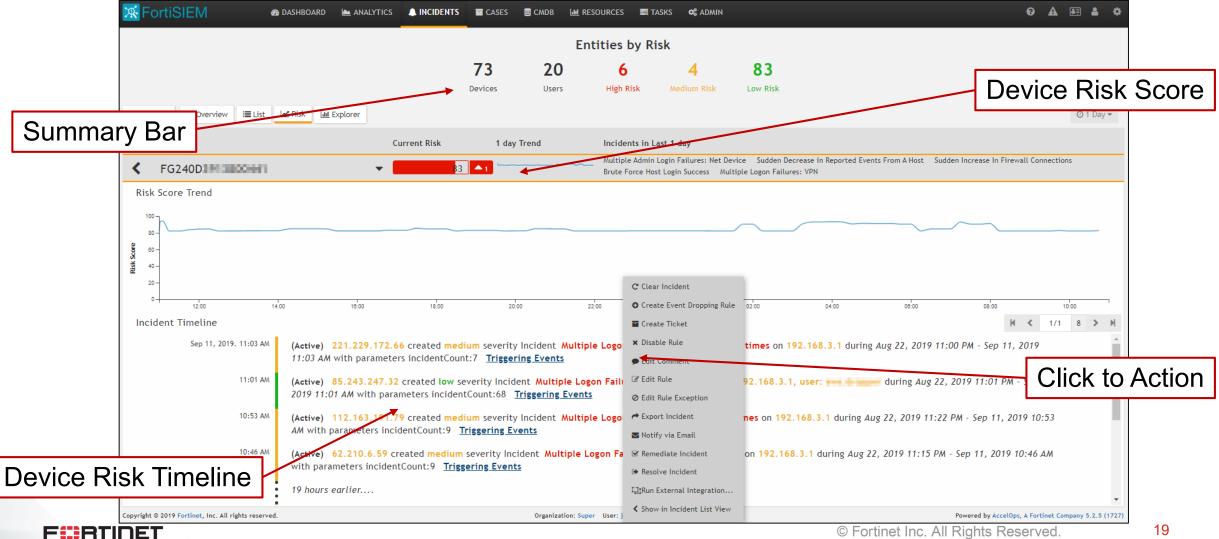
Incident Explorer

Dynamically Explore FortiSIEM Incidents



Risk Dashboard

User and Entity Risk View





User Entity Behavior Analytics

FortiSIEM & FortiInsight – **Machine Learning** to detect anomalous threats



"There are **known knowns**.

These are things we know that we know.

"There are **known unknowns**.

That is to say, there are things that we know we don't know.

"But there are also unknown unknowns. There are things we don't know we don't know."

- Donald Rumsfeld

Fortilnsight Machine Learning

For Anomalous Behavior Detection

Machine Learning



- The Fortilnsight Machine Learning capability allows users to detect 'unknown unknowns'
 - For example: Leavers Bob is about to leave his job, and his behavior has changed. This is hard to detect with rules alone

Profile Building



 Builds profiles of normal behavior so that it can detect abnormal behavior

Easy Setup



 Easy to set up and starts learning user behavior without configuration

User Tracking



 Uses UBA to track users and detect threats, by looking at patterns of human behavior



Fortilnsight

Feature Set

Endpoint Agent



Push-Architecture



Central Analytics



Non-intrusive, lightweight endpoint agent

Rapid deployment and instant protection

No need to push policies to endpoints

Alerting



Network Monitoring



Threat Hunting



Rules
map policies and compliance into alert
Machine Learning
detect anomalous threats

See where your data is going and where it's coming from, even when it's off your corporate network

7 day record of all activities

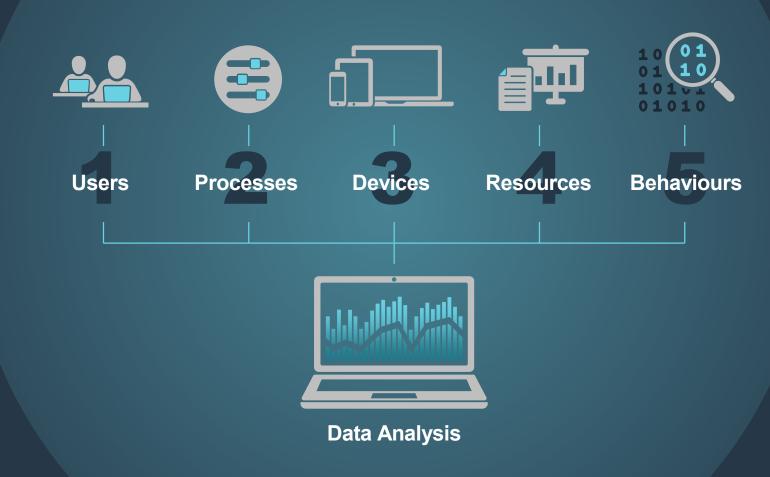
Unique 5-Factor Telemetry Model

Engineered to detect insider threats

Fortilnsight

Wherever a machine is located and whatever network the machine is connected to,

Fortilnsight captures the key information from 5 anchors to deliver insights built upon, the key metadata and behavior analysis around:

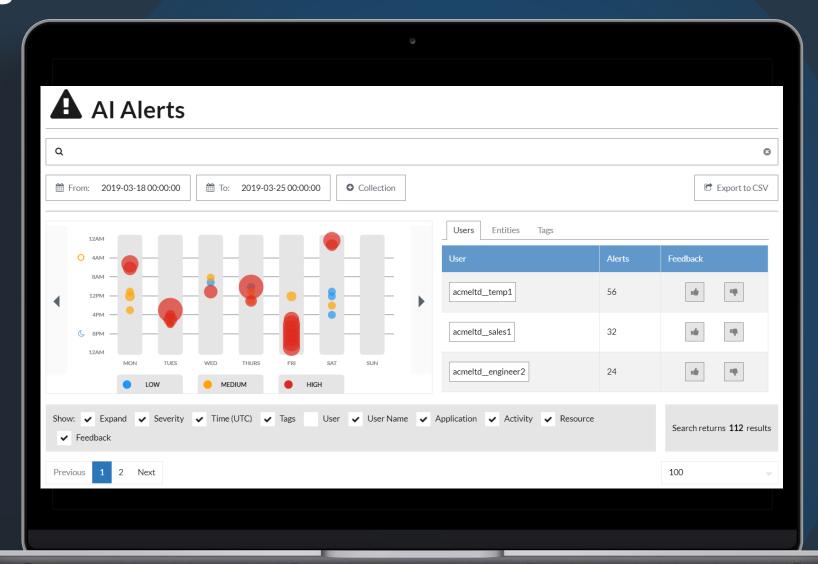




Machine Learning

Alerts

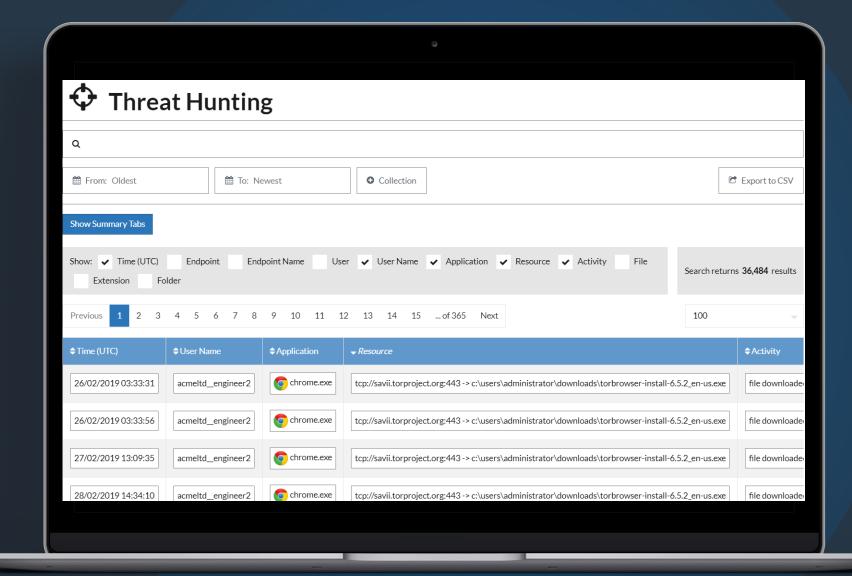
- Use Visualization and summary table to find what's important to you
- Users, Entities,
 Tags for scoping
- Feedback mechanism
- Pivot on Threat Hunting for context



Threat Hunting

Your view of events

- Interactive search of the event record
- 7 days of full history
- Summary Tabs –
 use to refine search
- Event List –
 sortable and selectable
 columns

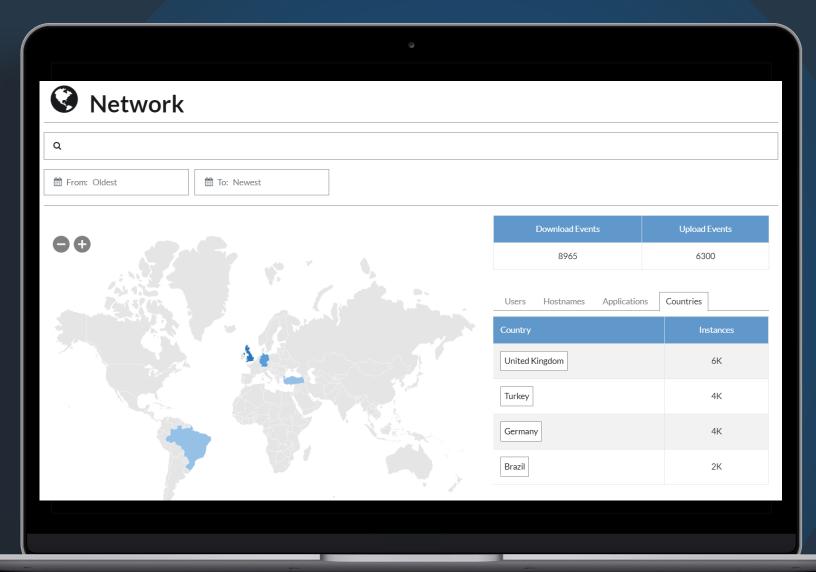




North/South Data Movement

Search network events

- Map at a glance data sources\destinations
- View data coming into the organization and leaving it
- Activity search filters on file downloaded\uploaded
- Top users, hostnames, applications, & countries for easy filtering
- Low level event data

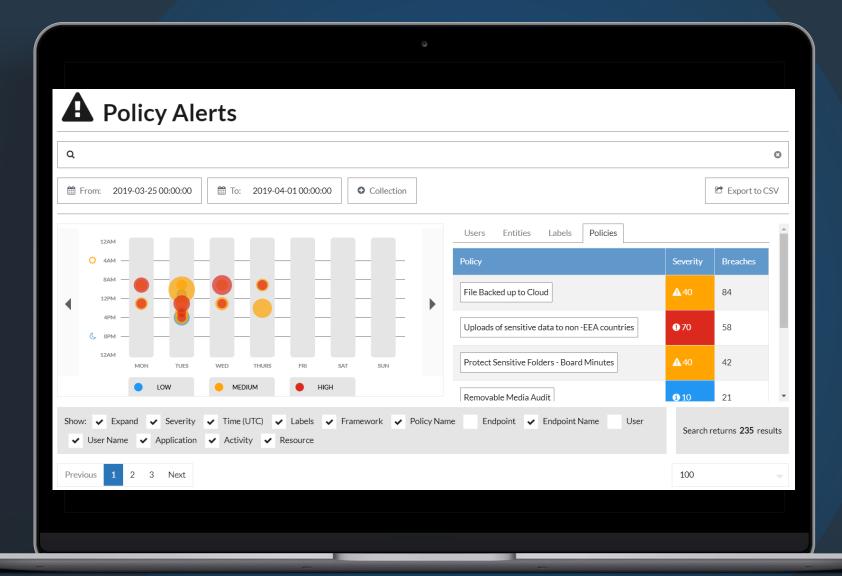




Policies

Policy Alerts

- Live view of alerts, as they happen
 - Selectable timeframe date & time range, or selectable week view
- Click on alerts to drill down for event details
- Packed events
- Filter alerts using search
- Use Summary Table to narrow your search
- User
- Entities
- Labels
- Policies
- Pivot to Threat Hunting
- Gain context
- Export data as csv



FortiSIEM - ADC integration

Challenges

- Need to add servers as apps grow
- Ensure application availability
- Maximize server utilization
- Need to inspect encrypted traffic

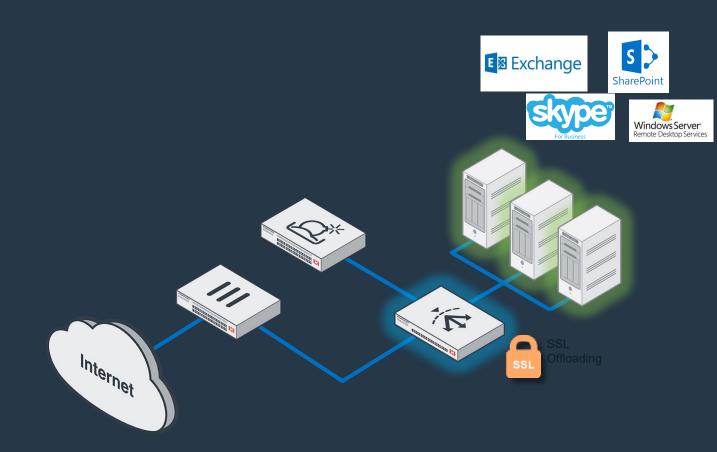
Solution

FortiADC Application Delivery Controller

- Server Load Balancing
- Health checking
- Persistence SSL Offloading

Advantages

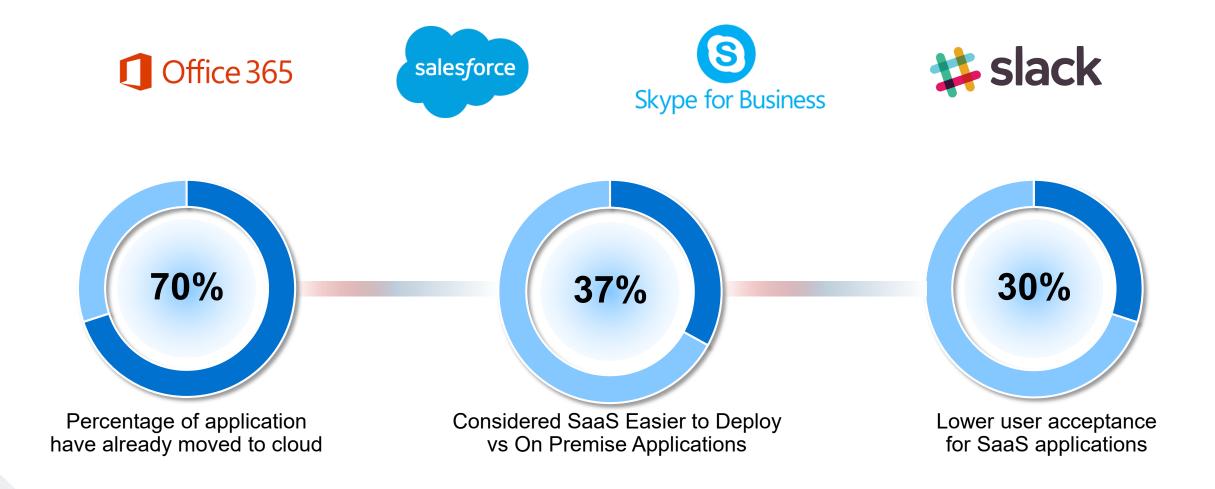
- Add multiple servers to meet needs
- Users see increased response and uptime
- Up to 25% increase in per server capacity





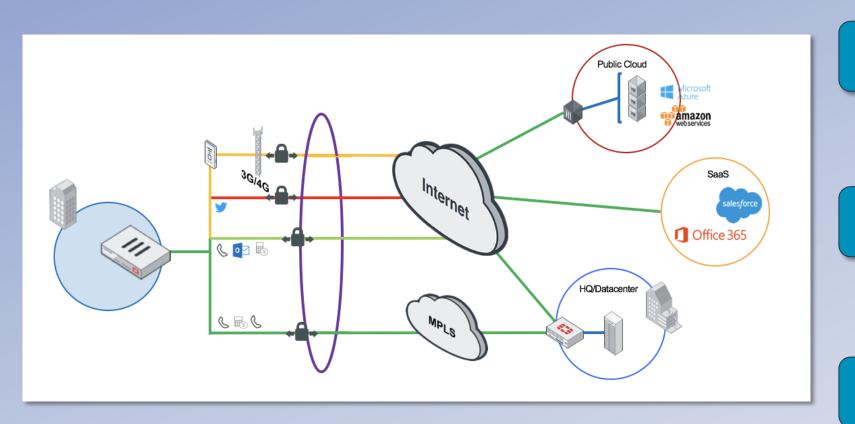


FortiSIEM - SD-WAN monitoring





Dynamic WAN Path Controller and Measurement



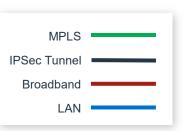
Application Steering

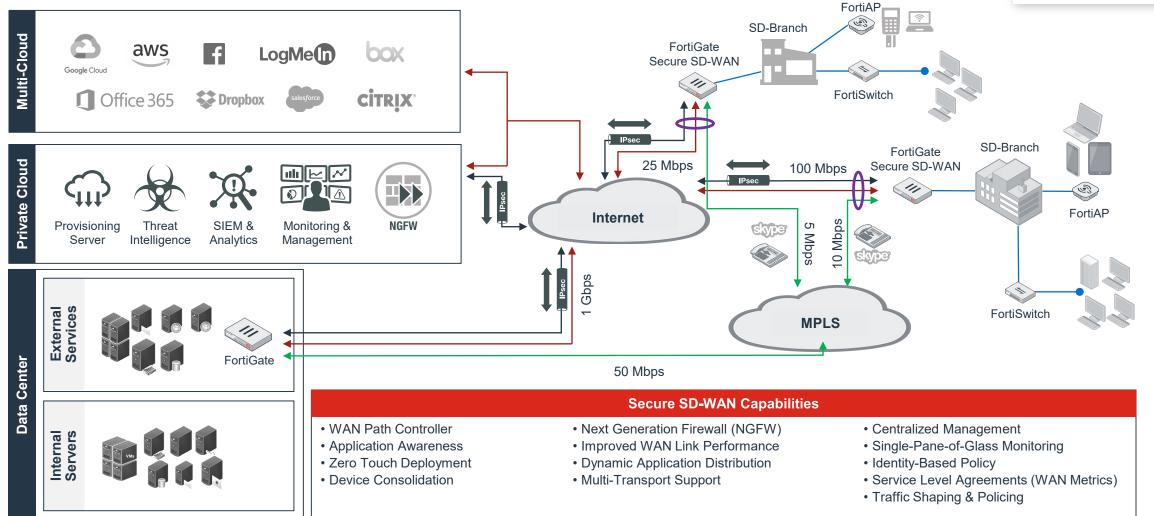
WAN Path Measurements

Dynamic Application Fail-over

Simplify with Secure SD-Branch







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