

Jarviss Heartbeat and Optimize services fueled by Palo Alto Networks Strata

by Kevin Thys, Tomas Van Beek & Jo Vander Schueren

Cloud Manager



Cybersecurity

Networking

Cloud

Managed services

About us

Who are we?

+30 passioned trusted advisors in Cybersecurity, networking and managed services.

What do we solve?

Problem of insufficient resources & knowledge in Cybersecurity & Networking.

What is our vision?

Intelligent use of AI/ML technology & automation can reduce workloads & optimize resources.

Where are we active?

- Belgium with offices in Ghent & Antwerp
- Netherlands with offices in Amsterdam

Who are our customers?

Public and private midsize organizations in the Benelux with extensive experience in healthcare.



Build resilience to manage incidents and avoid breaches

Cybersecurity

Implementing 3 layers of defense to answer OT & IT cybersecurity challenges

Networking

Building self-managed & end-user driven networks to create optimal experiences.

Cloud Security

Extending your security posture in the cloud for applications & infrastructure.

























Framework agreement for

NEXTGEN/NETWORK FIREWALLS





Scope

- 1. Nextgen firewall platform based on Palo Alto Networks
 - I. Flexible platform: branch, datacenter, segmentation, cloud, ...
 - II. Cloud delivered security services: URL security, DNS security, Threat prevention, Saas, DLP, IOT, SDWAN, ...
 - III. Central (cloud) management

2. Consultancy services

- I. Design & architecture
- II. Implementation & onboarding
- III. Security Controle Baseline Testing (SCBT)
- IV. Certification training
- V. Project management

3. Support & managed services

- i. Basic
- ii. Advanced
- iii. Managed





Support services for NGFW

1. Basic

- I. Builds upon the vendor support
- II. Includes a pay as you go 8x5 Jarviss helpdesk
- III. Only recommended if extensive Palo Alto Networks knowledge is present

Advanced

- I. Direct Jarviss support with fix price
- II. Different SLA's possible (NBD, 8x5, 24x7)
- III. Different scope's possible (support, best practice checks, changes, ...)

3. Managed

- I. Full managed by Jarviss in a fix price model
- II. Jarviss takes full responsibility
- III. Different SLA's possible (NBD, 8x5, 24x7)



Get in touch!





info@jarviss.be

+32 (0)9 394 99 11

in https://www.linkedin.com/company/jarviss/

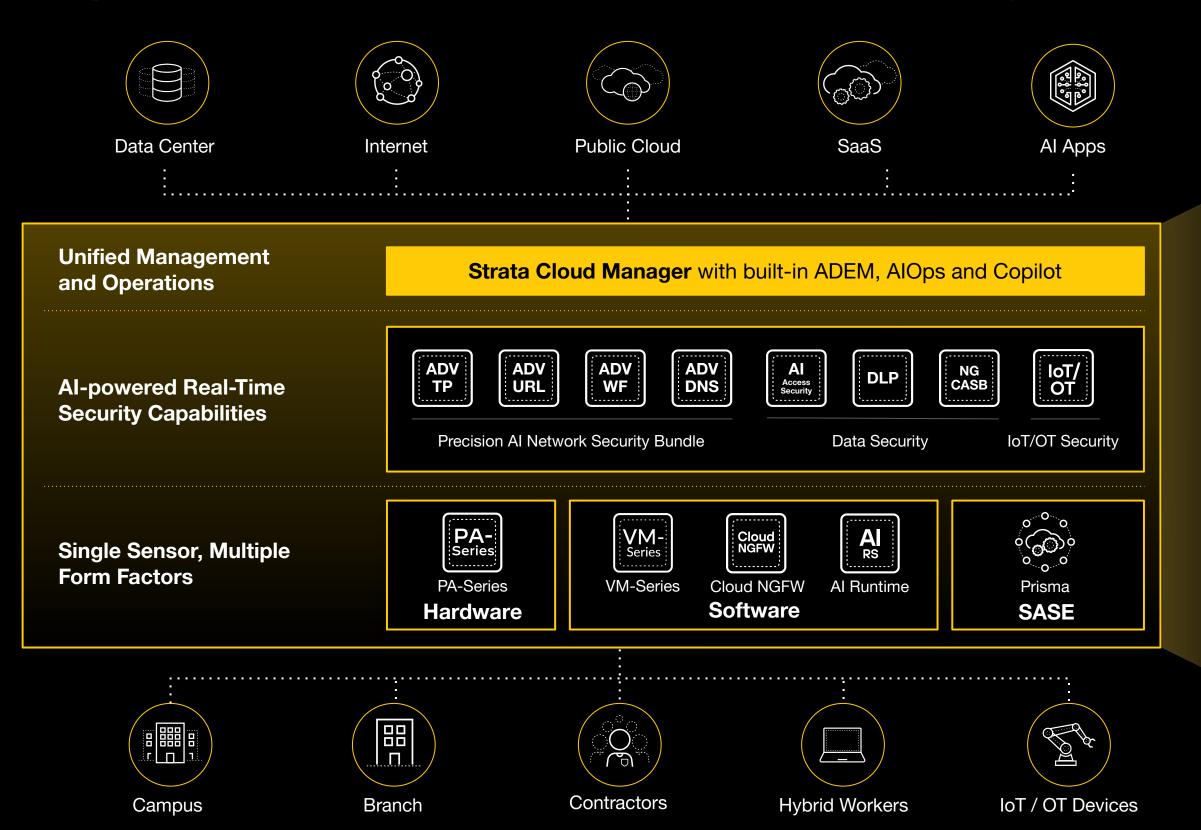
LOOKING FORWARD TO MEET YOU!





Strata Network Security Platform

Simple & unified. Prevents threats in real time everywhere.



Unified Management and Operations

Write policy once and enforce everywhere. Proactively strengthen security and prevent outages using Generative Al.

Al-powered Real-Time Security

Prevent threats in real time using ML and Deep Learning applied to rich data from 70,000+ customers.

Single Sensor, Multiple Form Factors

Simplify security with consistent operating system. Protect every location with a fitting form factor.

The Industry's First Al-powered Unified Management and Operations Solution



Demo



Jarviss Services



Analyse use of investment made. Recommendations regards to your environment.



Pre planned days to perform tasks from Heartbeat.



On demand request for consultancy.



Heartbeat

- Best Practice check
- New feature mapping
- Recommendations for upgrades
- Q&A about a topic
- Strata Cloud Manager
 - Feature adoption
 - Policy analyzer
 - Device alerts



Optimize

- Pre-scheduled days every x time
- Jarviss plans topics to address
- Next Heartbeat => improved outcome.



Credits

- Customer initiated
- Project based approach: sales & planning process.
- SoW





Thankyou

by Kevin Thys, Tomas Van Beek & Jo Vander Schueren



Cybersecurity

Networking

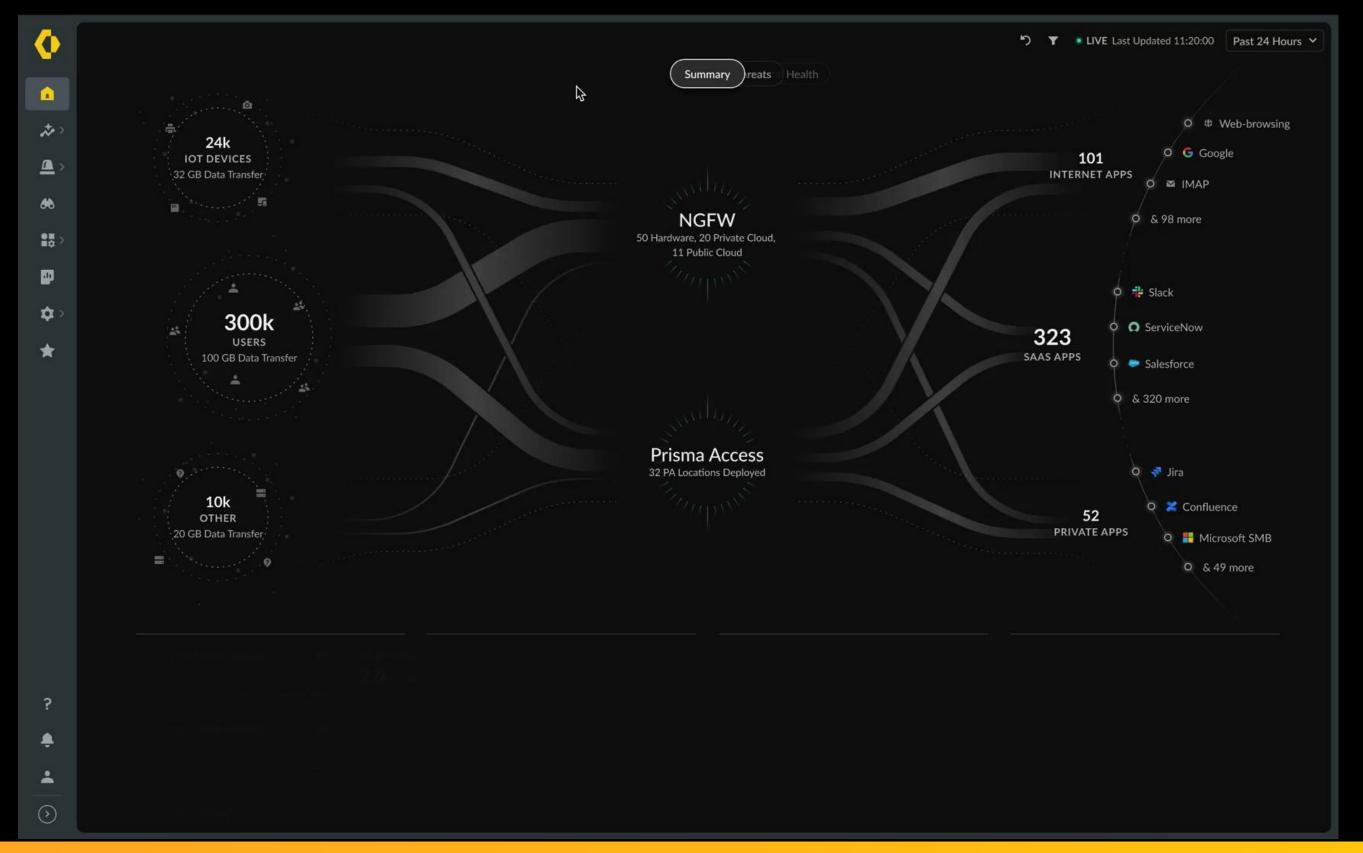
Cloud

Managed services

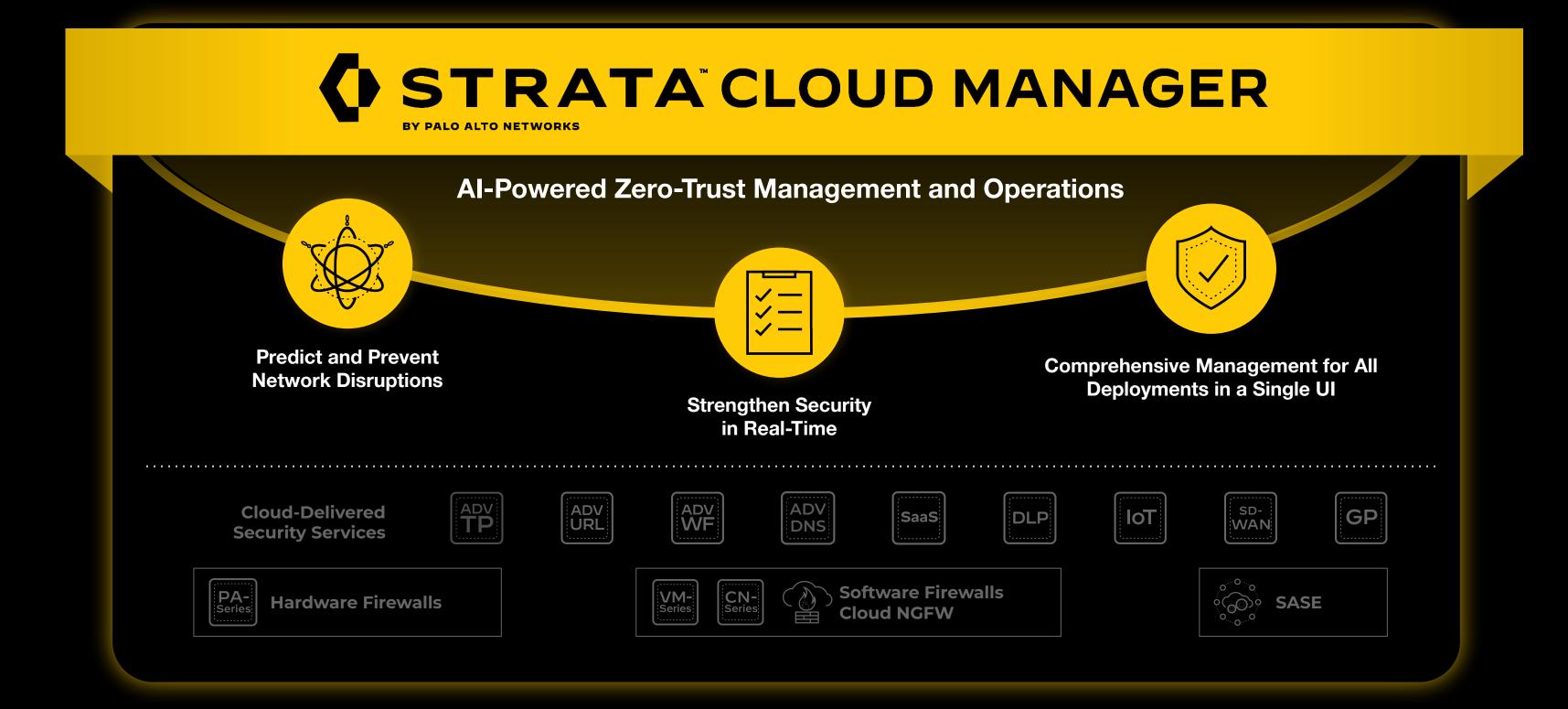
paloalto

Strata Network Security Platform

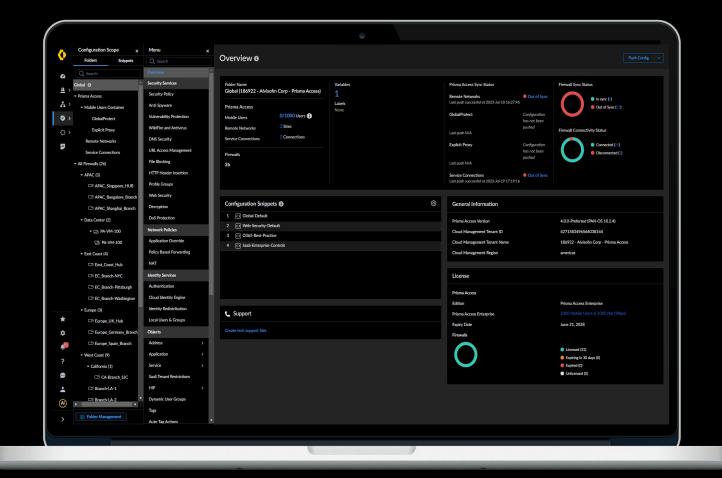
Strata Cloud Manager Command Center



Unified management and operations for your entire network security estate



Comprehensive Management for All Deployments in a Single Ul



Consistent Configuration

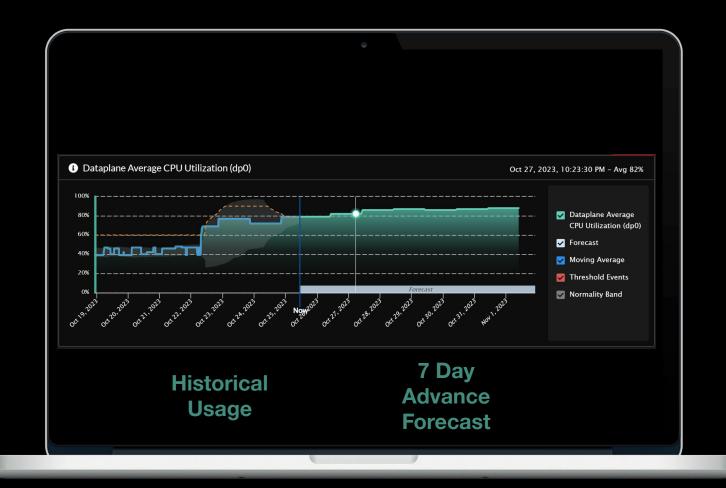
Ensure consistent security posture across all deployments with flexible configuration organization. Achieve a \$1.5M increase in ROI through a unified platform.

Efficient Configuration Workflows
Improve productivity and reduce workload with
streamlined use-case driven workflows

Centralized Troubleshooting

Reduce operational burden by issuing one-click operational commands from a centralized troubleshooting UI

Predict & Prevent Operational Disruptions



Comprehensive Observability

Eliminate blind spots and identify problems with unified visibility into all users, apps, infrastructure and network connectivity

Proactive Health

Prevent potential disruptions up to 7 days in advance with ML-powered actionable insights

Automated Resolutions

Reduce resolution time with remediation playbooks and automatic support tickets. Each month, it processes 77B metrics, shares 715K+ misconfigurations and 17K+ firewall health issues for resolution

Strengthen Security in Real-Time

Maximize Security

Maximize the ROI from security investments by understanding unused or underutilized security capabilities and turn them on with best practices

Optimize Configuration

Remediate misconfigurations with ML-powered analysis to optimize and secure existing firewall configurations. Strata Cloud Manager users witness a substantial improvement in their security posture within the first 90 days.

Write Secure Configuration in Real-Time

Proactively improve security posture with best practices and Infosec policy enforcement at configuration time, without the need for review



The Industry's First Al-powered Unified Management and Operations Solution



Gain Complete Visibility Across Your Enterprise



Get a **comprehensive view** of users, devices, applications, and threats to assess how everything is protected in your enterprise



Surface insights into how your apps and users are affected by **threats in real-time and take action**



Understand **end-to-end user experience** across branch sites, applications, and IT infrastructure, from a single dashboard



Comprehensive View of Users, Devices, Applications, and Threats in Your Network



What are the top apps my users are using and are those apps approved?



Emily NetSec Admin







Emily has users and apps everywhere that are being protected by both NGFW and SASE

Emily wants to make sure all users are accessing approved apps only

Drilling down to see the top accessed apps, Emily can quickly see how many are sanctioned and unsanctioned across her infrastructure



Emily takes action on the unsanctioned apps to further protect the enterprise from users who are accessing the apps

Get Insights into Threats in Real-Time and Take Action

Which threats
and categories are
most prevalent
in my network?



John Security Admin







C2 Threat Blocked

Take action to block the threat

1

John wants to see which threats are most prevalent and which users are bringing the most threats in his network 2

John navigates to the "Command Center" threat view and sees a high number of C2 threats



John drills down to find the source of the threats and analyzes the guided suggestions on how to block those threats



Take action to block those threats



Understand End-to-end User Experience from a Single Dashboard

Why are so many users experiencing poor internet issues?



Emily NetSec Admin















1

Emily notices that a lot of remote users on her network are having internet issues 2

Emily navigates to the NOC view in Strata Cloud
Manager to get visibility for all her users everywhere



Emily quickly sees that 159 remote and branch site users in California are having a degraded experience



Emily can further drill down to the segment that is causing the issue in the branch site, user, app, and IT infrastructure

Enable Simple and Consistent Network Security Lifecycle Management



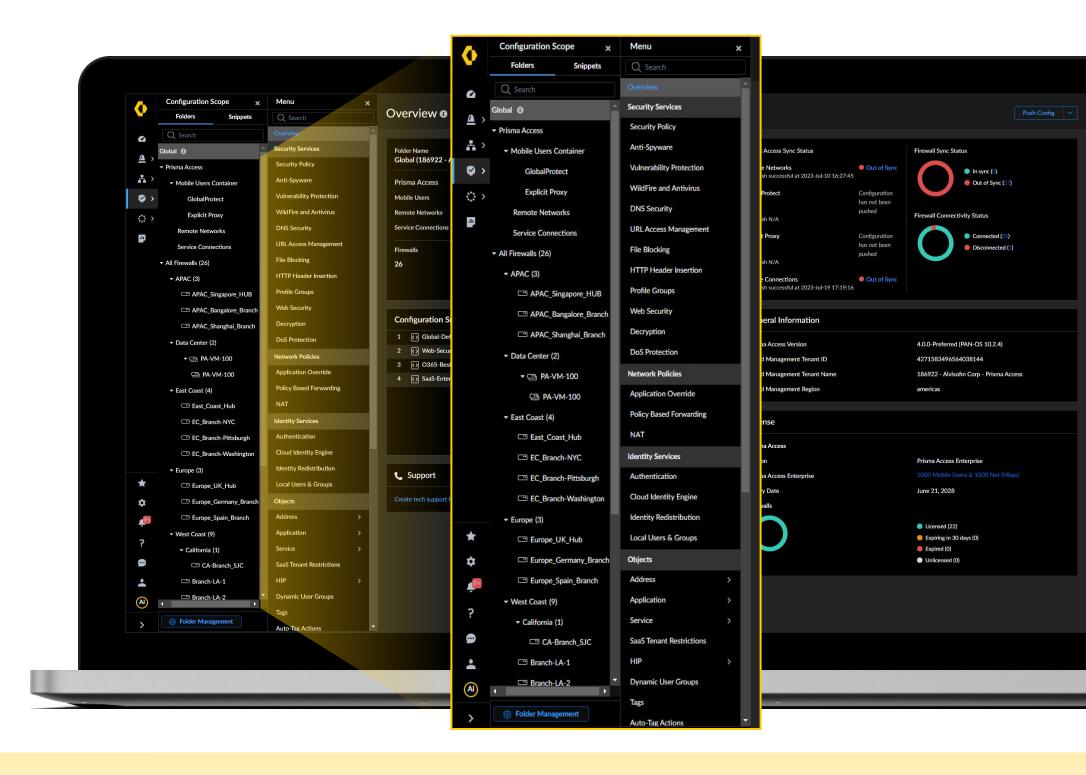
Simplify onboarding (zero touch provisioning), operations (software upgrade and config operations), and device refresh



Achieve consistent security configuration and policies throughout your network estate combined with Palo Alto Networks best practices



Scale efficiently and reduce network configuration complexity with predefined workflows (Auto VPN for hub-and-spoke connectivity), and integrations



72%

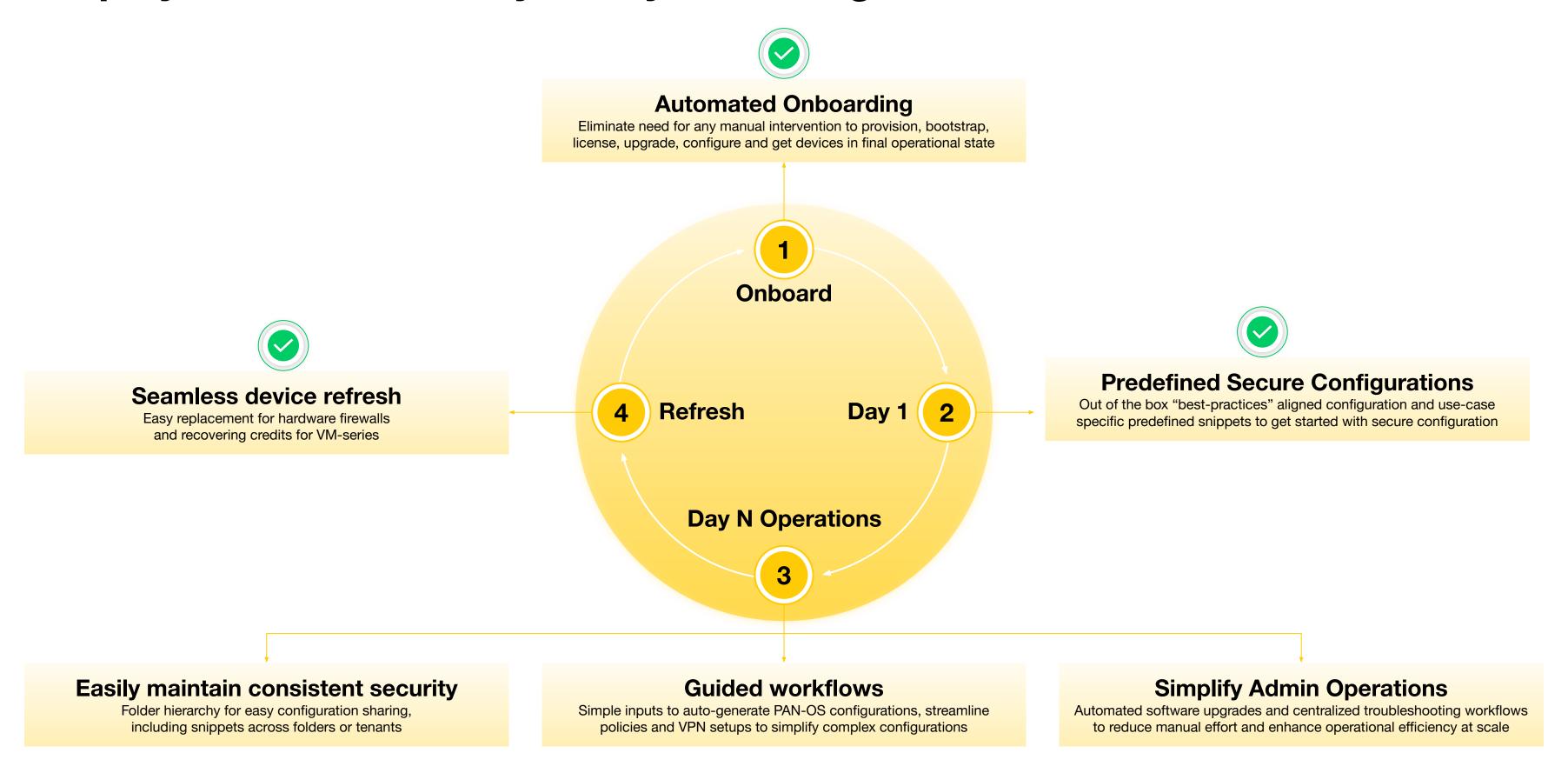


Reduced configuration and deployment time with automation

(as per customer feedback)

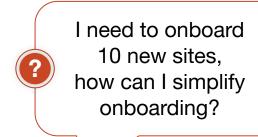


Simplify Network Security Lifecycle Management



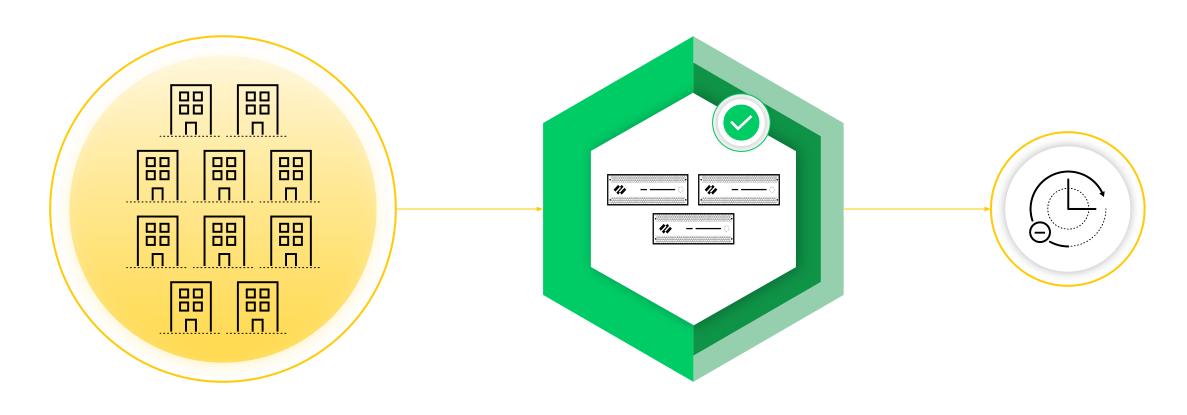
Efficient Onboarding with Zero Touch Provisioning

Automate onboarding and day-0 workflows for increased productivity





EmilyNetSec Admin







10 new branch offices are opening and Emily needs to set up the new deployments



With Strata Cloud Manager, Emily uses zero touch provisioning to get the firewalls configured and automate onboarding and licensing

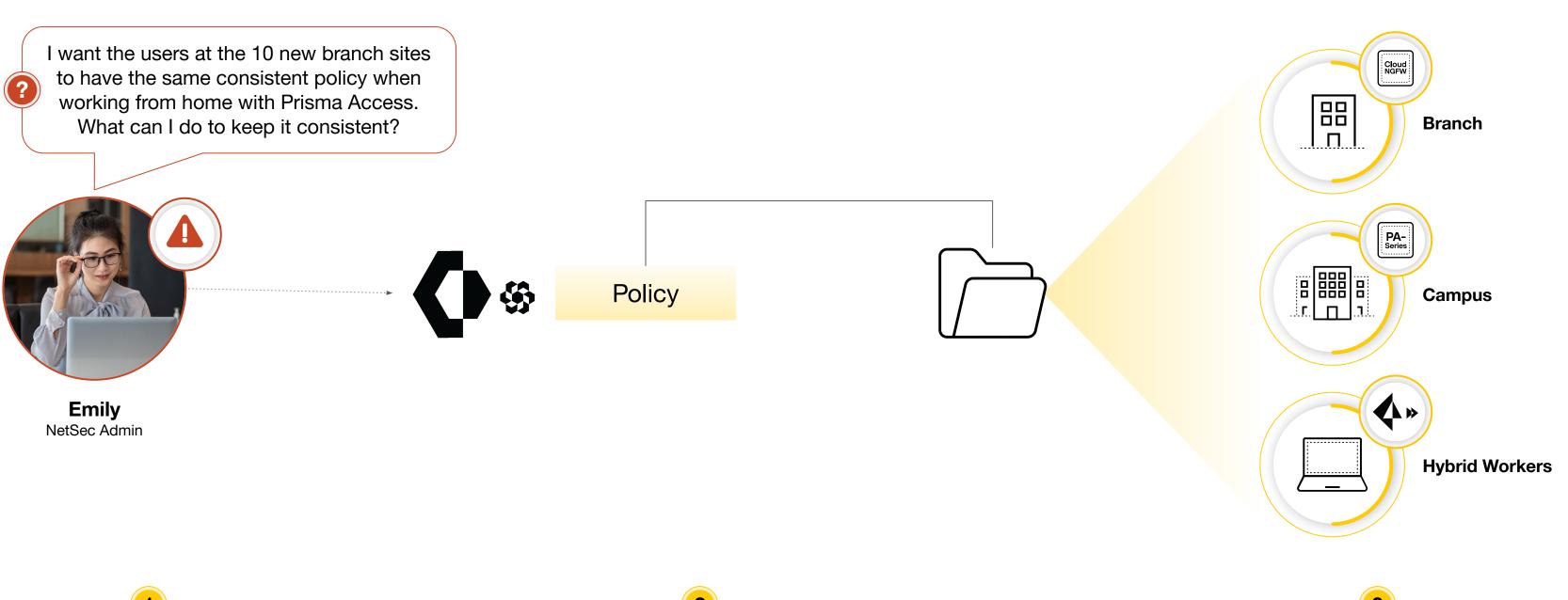


Emily remotely onboards the new sites without IT expertise in the branches while eliminating misconfigurations



Achieve Consistent Security Configuration

Share configuration across your entire network estate



1

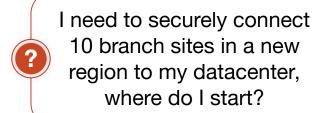
Emily needs to update a policy for users working from the office and working from home

With Strata Cloud Manager, Emily updates a common configuration and shares it across her entire network estate

Emily streamlines security by applying consistent policies across NGFW and SASE, cutting operational costs by up to 50% with an automated, unified management system

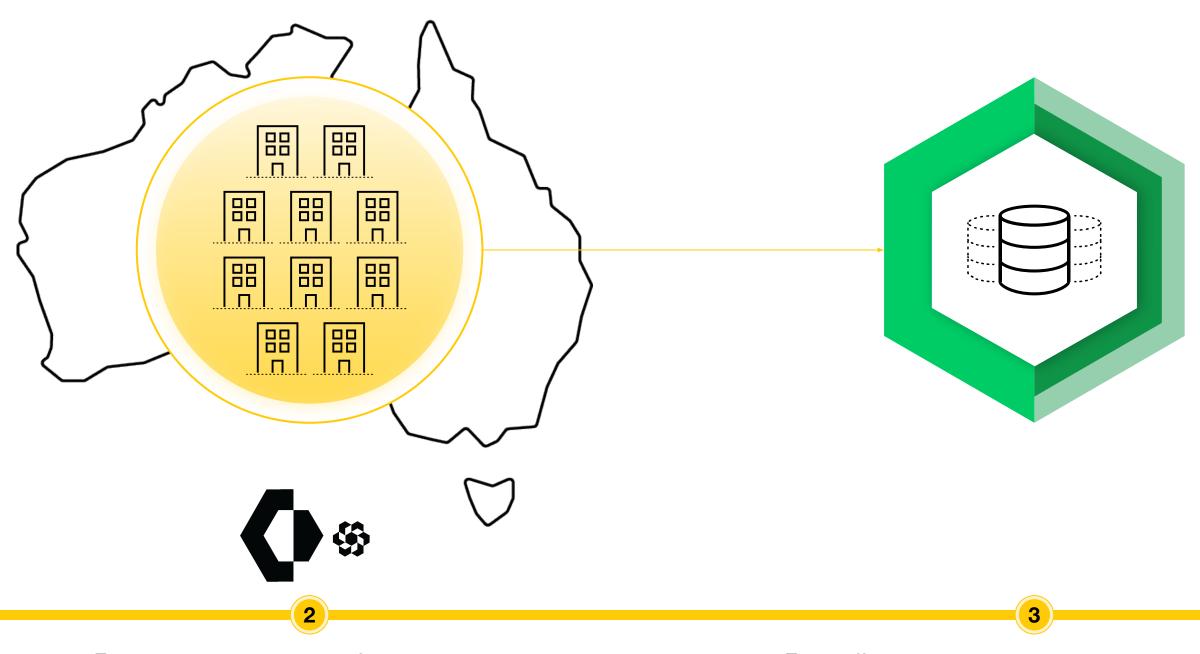


Scale Efficiently and Reduce Network Configuration Complexity





Emily NetSec Admin





Emily needs to securely connect 10 branch sites in Australia to the HQ datacenter

Emily uses the guided workflow and provides simple inputs to generate all configuration workflows required to connect the 10 branch sites

Emily efficiently scales her organization and securely connects the branch sites in **72% less time** compared to traditional configurations methods with automation*

*Based on real customer use case data

Detailed list here

Simplify Network Security Lifecycle Management

Onboarding

Automated Onboarding

Auto provisioning, bootstrap, license, upgrade, configure and get devices in final operational state

Day 1

Minimize Misconfigurations

Out of the box "best-practices", use-case specific predefined snippets

Day N

Easily Maintain Consistent Security

Simple Folder hierarchy with snippets across folders or tenants, variable support for environment differences within a common config

Day N

Guided Workflows

Simple inputs to auto-generate PAN-OS configurations, large-scale VPN deployments

Day N

Simplify Admin Operations

Automated software upgrade orchestration, centralized troubleshooting workflows

Refresh

Seamless Device Refresh

Easy replacement for hardware firewalls and recovering credits for VM-series

Strengthen Security Posture in Real-Time



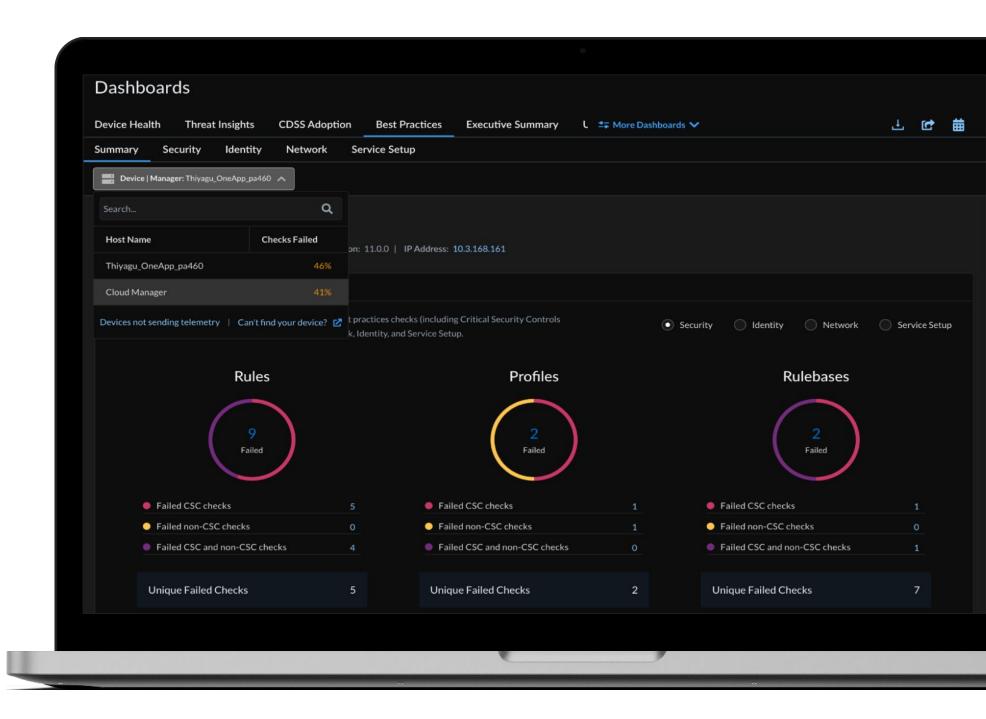
Write new and existing policies that align with enterprise **best practices in real-time**



Continuously **detect and remediate policy anomalies** ensuring zero trust posture



Ensure **continuous compliance** across standard industry frameworks



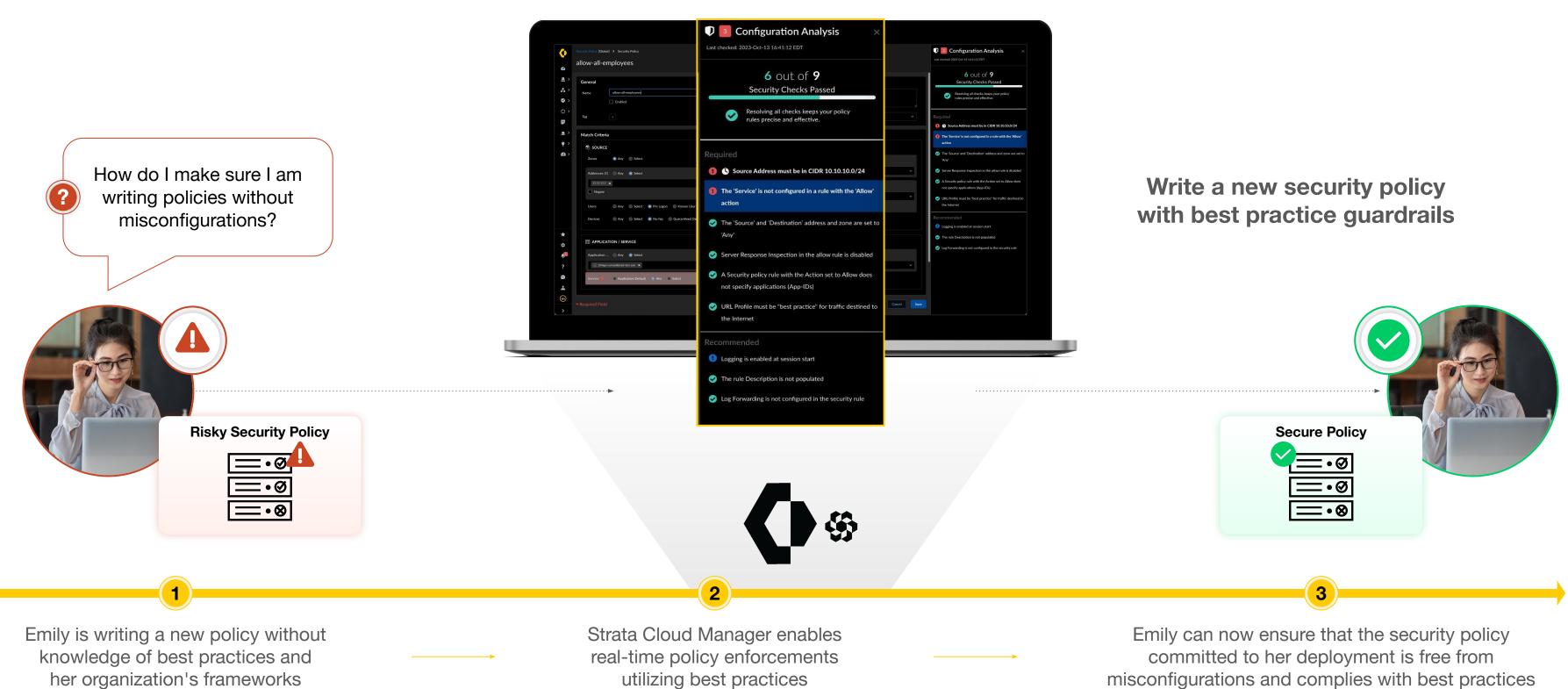
Every Month

1,924,143 Misconfigurations shared for resolution



Write Secure Configuration in Real-Time

Implement security policies that comply with best practices at the time of configuration



Detect and Remediate Shadow Policies in Your Environment

Get rid of risky security policies to reduce your attack surface



Detect and Remediate Policy anomalies

Shadow and redundant policies

Overly permissive rules

Unused rules and objects

Unhit rules



Automatically detect gaps in configuration





1

Emily gets an alert that Joe in Marketing has access to legal apps Emily can easily identify ineffective security policy within the configuration interface

Emily receives safe guaranteed recommendations to remove anomalies

Emily can now ensure that Joe in Marketing does not have access to legal apps





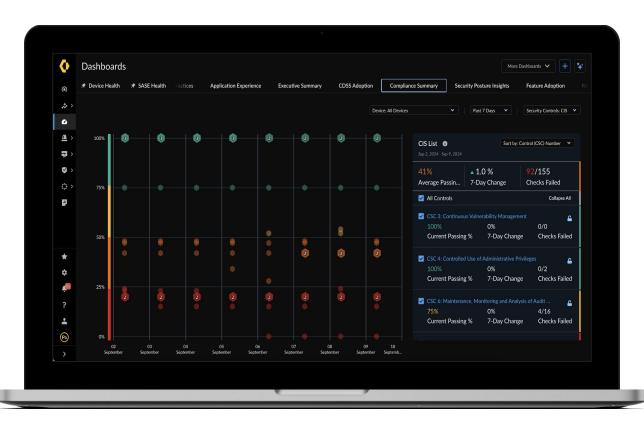
Ensure Continuous Compliance with Industry Frameworks

Check against NIST, CIS, PCI-DSS*





Emily NetSec Admin

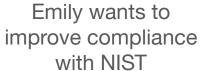


Comprehensive view of your deployment compliance against regulatory compliance frameworks









Emily looks at the Compliance dashboard and notices that a control is not compliant against NIST





She addresses the recommendations, fixing the configuration

*PCI-DSS compliance framework coming soon





Strengthen Security Posture

Key scenarios where alerts are generated

Palo Alto Networks Defined Best Practices

Decryption, continuous app traffic inspection, authentication, etc

Shadows & Redundancies

Prevent unintended allows exposing security risks and unintended denies causing business disruptions

Intent-Based Policy Analysis

Clean up unused objects and security rules to strengthen security posture and firewall performance

Zero Trust Policy

Optimize policies based on actual traffic logs to adhere to zero trust principles of least privileges

Regulatory Compliance

Stay compliant with NIST, PCI DSS, CISv8, CRI, etc. frameworks and build organization specific Infosec compliance frameworks

Optimize Network Operations and User Experience



Proactively predict and prevent network infrastructure health issues



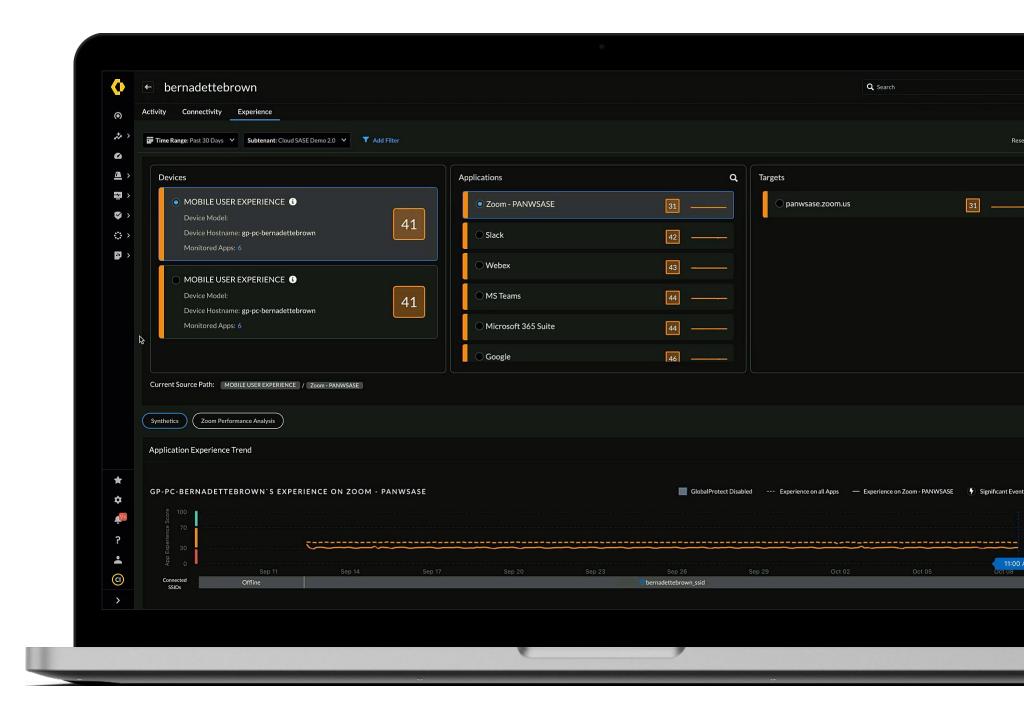
Detect, diagnose and remediate existing operational health issues (authentication issues, CVE vulnerabilities)



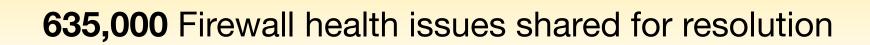
Ensure optimal end-user application experience



One-click centralized troubleshooting to reduce operational burden



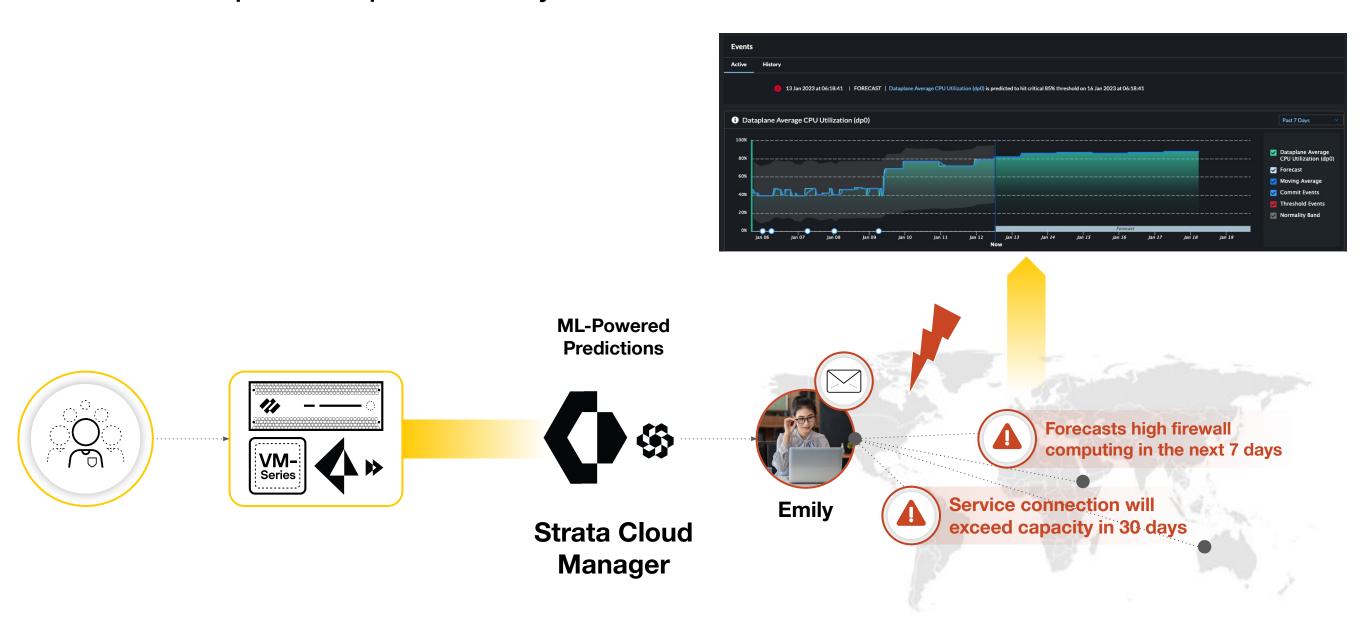
Every Month

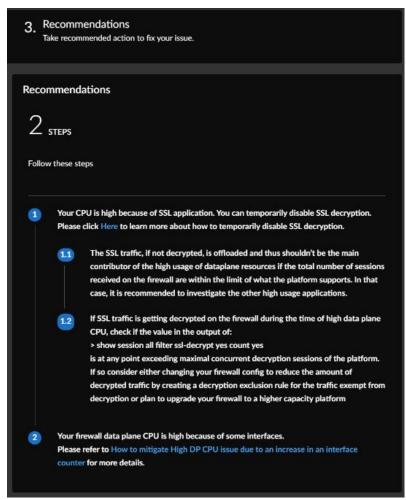




Proactively Prevent Disruptions and Quickly Remediate

Forecast disruptions up to 30 days in advance





(1)

New users added due to company expansion

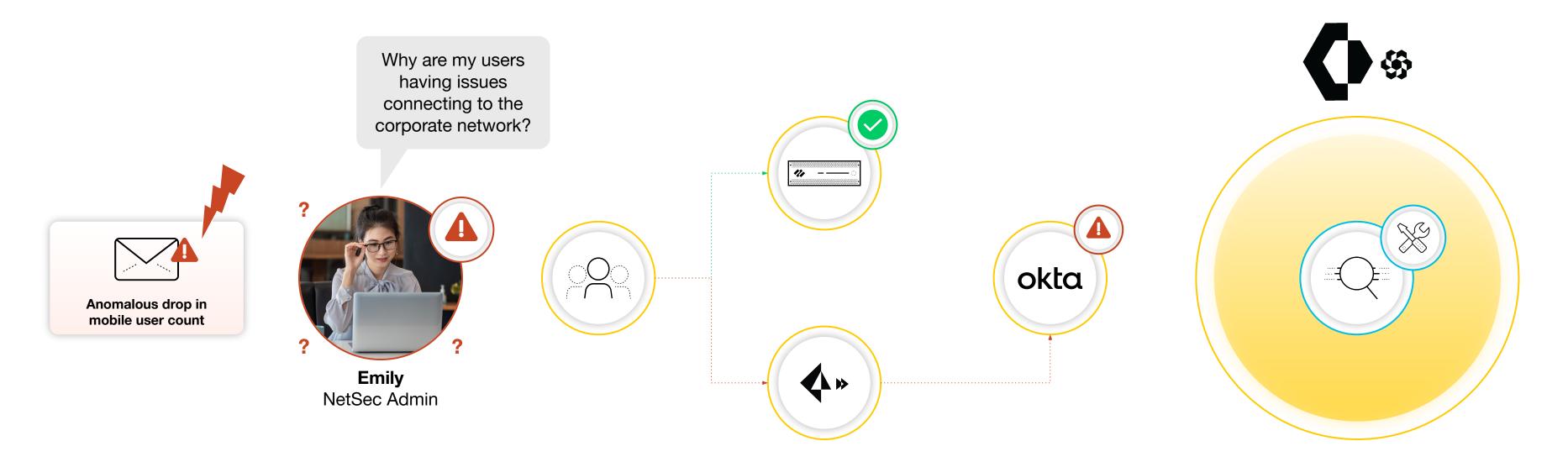
2

Emily gets an alert for projected high processing activity in the next 7 days and for service connection exceeding capacity in the next 30 days.

3

Emily quickly identifies the root cause and takes the appropriate remediation steps

Resolve Authentication Issues for All Users Anywhere within Minutes





Emily is alerted about a large drop in mobile users on her network 2

Emily clicks the alert and see that mobile users are not being able to connect to the corporate network due to authentication issues



Emily can quickly investigate the cause and impact of the issue along with actionable remediation



Emily is able to proactively resolve authentication failures before her users complain



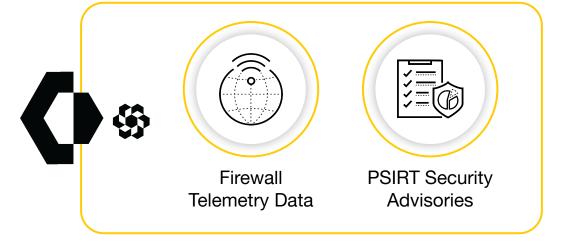


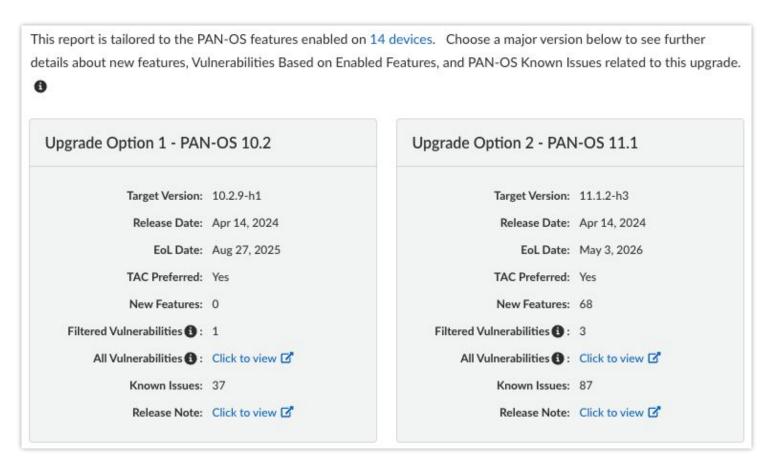
Software Upgrade Recommendations and Orchestration

Am I impacted by this latest CVE (eg Log4j)?
What should I do about it?



EmilyNetSec Admin





Upgrade to Software Version X to mitigate the CVE personalized to your configurations

1

Emily is concerned about which firewalls in her environment are susceptible to log4j

2

Emily wants to make sure she is taking all the precautions and is on the latest software version available to fix the CVE

3

Strata Cloud Manager identifies the best version for Emily to upgrade to based on enabled features

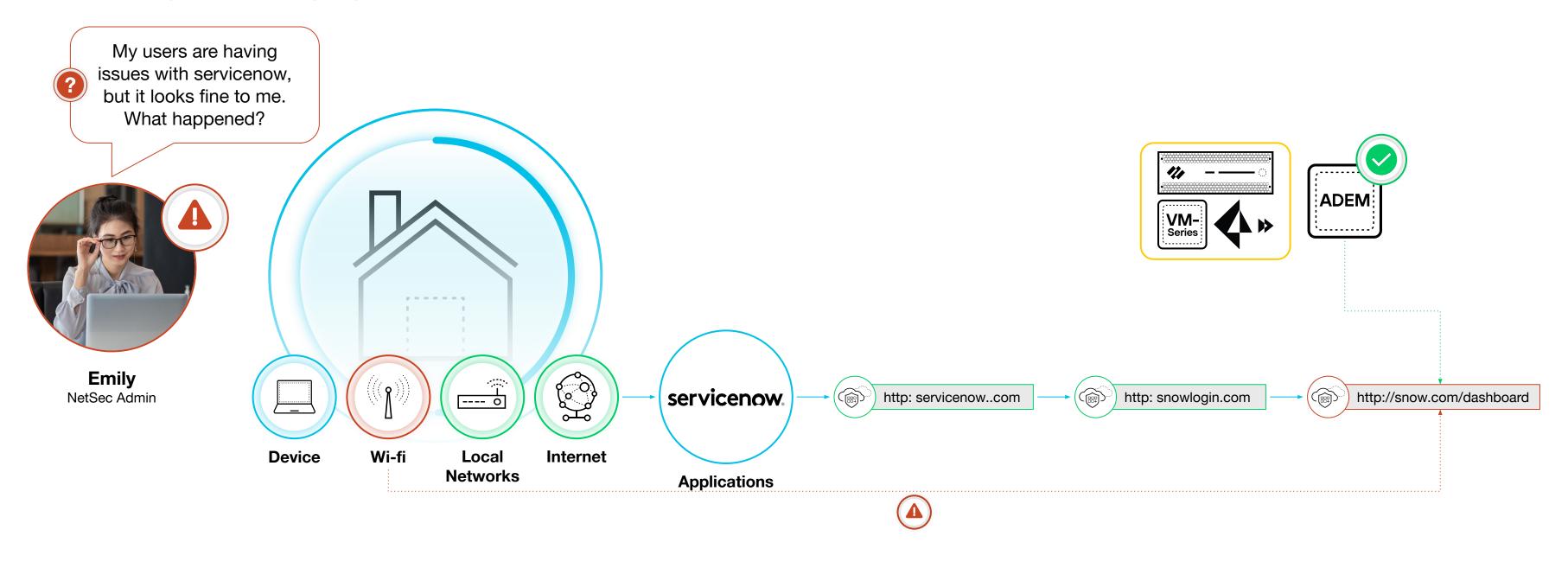


Emily upgrades to PAN-OS 11.1 to remediate the CVE vulnerability



Ensure Optimal End-User Application Experience

Across NGFW and SASE





Emily receives an IT ticket from a user experiencing issues while accessing servicenow from home

2

With ADEM in Strata Cloud Manager, Emily can pinpoint the exact app transaction causing the issue and identify poor WiFi as the root cause. 3

Emily resolves the user issue in

6 playbook steps compared to an average of 26 steps, reducing MTTR by ~77%

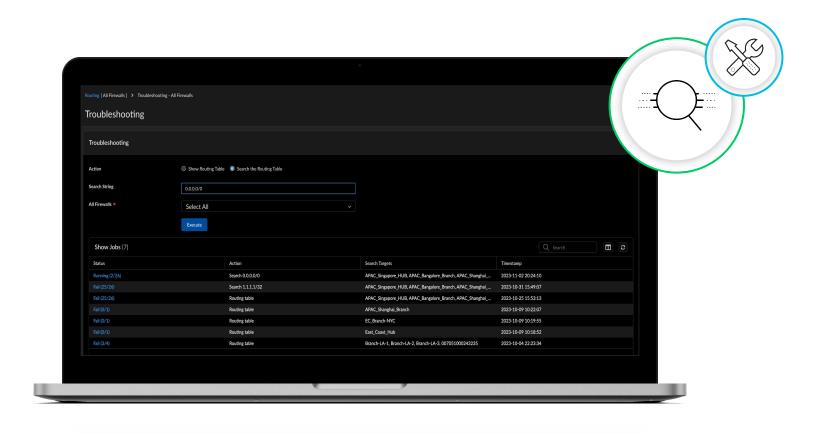
*Availability on NGFW coming soon

One-click centralized troubleshooting to reduce operational burden

I just deployed a new service to the 10 branch sites, did my firewalls receive the new routing update?



Emily NetSec Admin







Emily just deployed a new service and wants to verify whether routing* to that service is available on all branch sites

Using Strata Cloud Manager, Emily leverages the troubleshooting workflow to perform a one-click check on the routing tables across all firewalls

Emily saves time and effort troubleshooting in one single interface for the entire deployment

*See here for all troubleshooting workflows



Detailed List here

Proactively Resolve Network Disruptions

Key categories where alerts are generated

Device

System resources (CPU, memory, disk), hardware, management (license, certificates)

Network & Traffic

IPSec VPN, Routing, tunnel/interface performance (latency), bandwidth utilization, ISP degradation

Software Issues

End-of-life, end-of-sale, CVEs, known vulnerabilities

Security & Cloud Services Health

Strata Logging Service, Cloud Identity Engine, Cloud Delivered Security Services

Application

Poor application experience, layer-7 services

Endpoint Agent

GlobalProtect client health, endpoint performance

Instant Knowledge at Your Fingertips with Strata Copilot

The ultimate AI assistant for network security augmented with ML, workflows, and automation



Gain broad and deep **product knowledge** with Copilot, a natural language Al assistant, trained on ~50,000+ sources from technical documentation to LIVEcommunity blogs



Get curated questions that are contextually relevant to the content of the page in focus along with relevant suggestions



Fast remediation with intelligent guidance and support case creation



Beta results



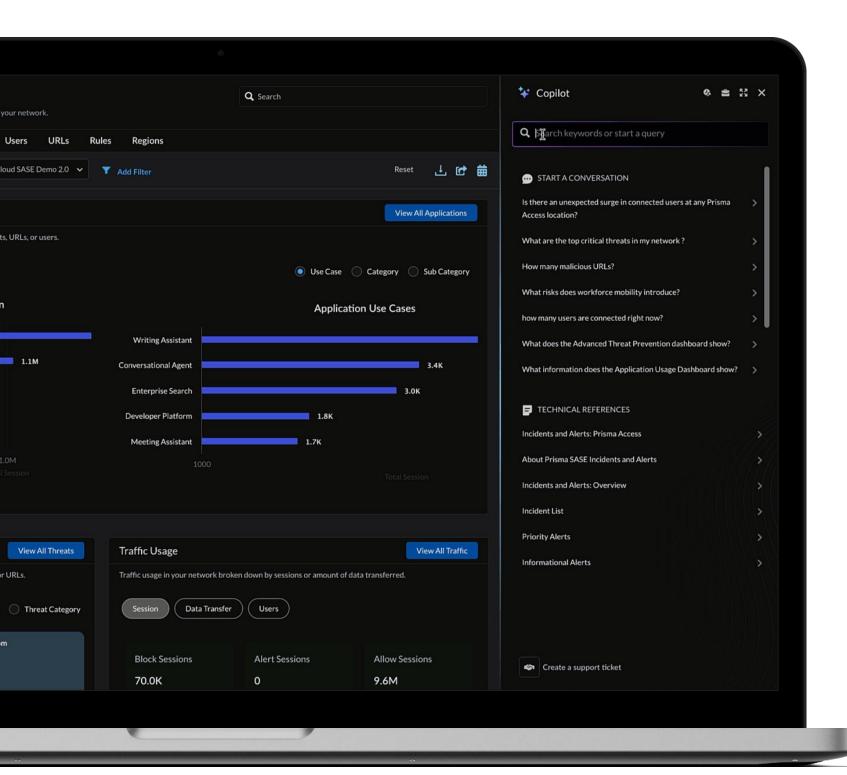
500+ users engaged with Strata Copilot, submitting over 2,400 queries in the US, ranging from basic troubleshooting to advanced data analysis.





Comprehensive Product Knowledge

Instantly access all Strata Network Security Platform documentation in one place



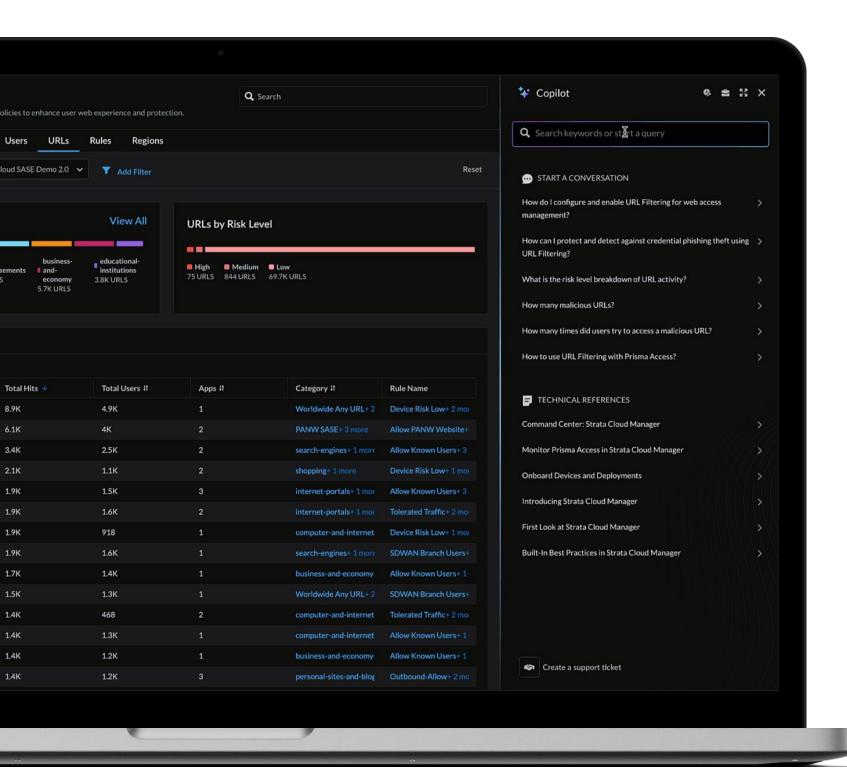
How can I investigate activity on my network related to incidents and alerts?

How do I check FIPS Compliance?

How can I see if my users are having performance issues?

Intelligent and Relevant Suggestions

Al-Driven curated questions that are contextually relevant for securing and optimizing your network



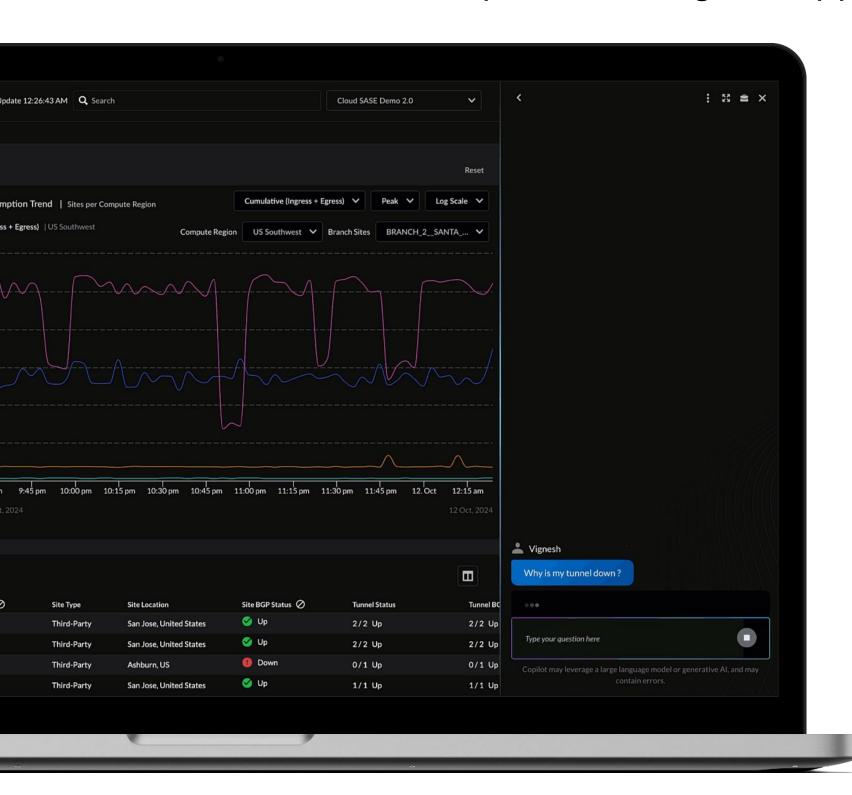
Who are the 5 users exposed to the highest number of threats?

What are the most vulnerable devices on my network?

What is the total number of users browsing to a URL categorized as artificial-intelligence within the last 7 days, grouped by application name?

Intelligent Guidance

Recommended next steps and intelligent support case creation for faster remediation



Raise support tickets in a matter of seconds

Include historical information and evidence

Get suggested remediations to accelerate MTTR