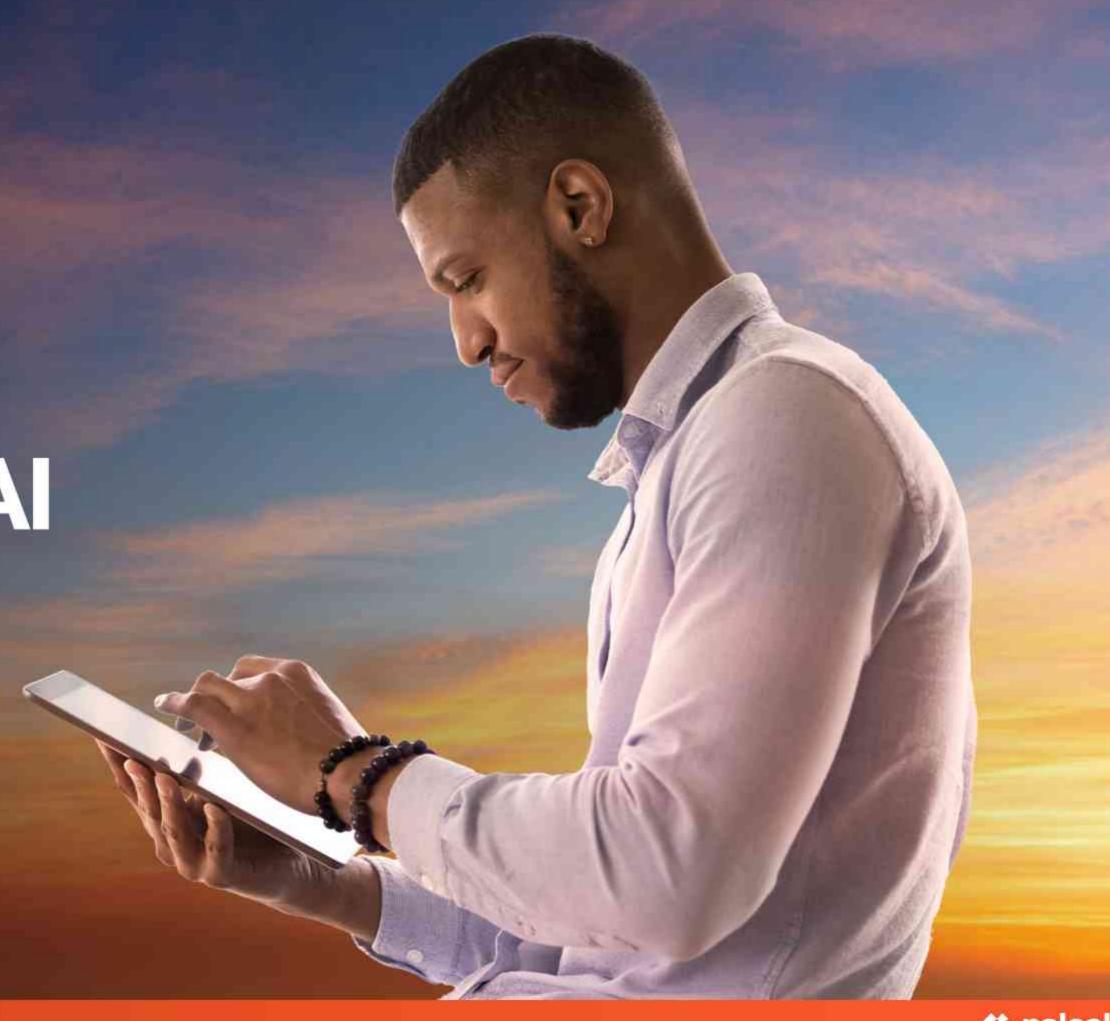
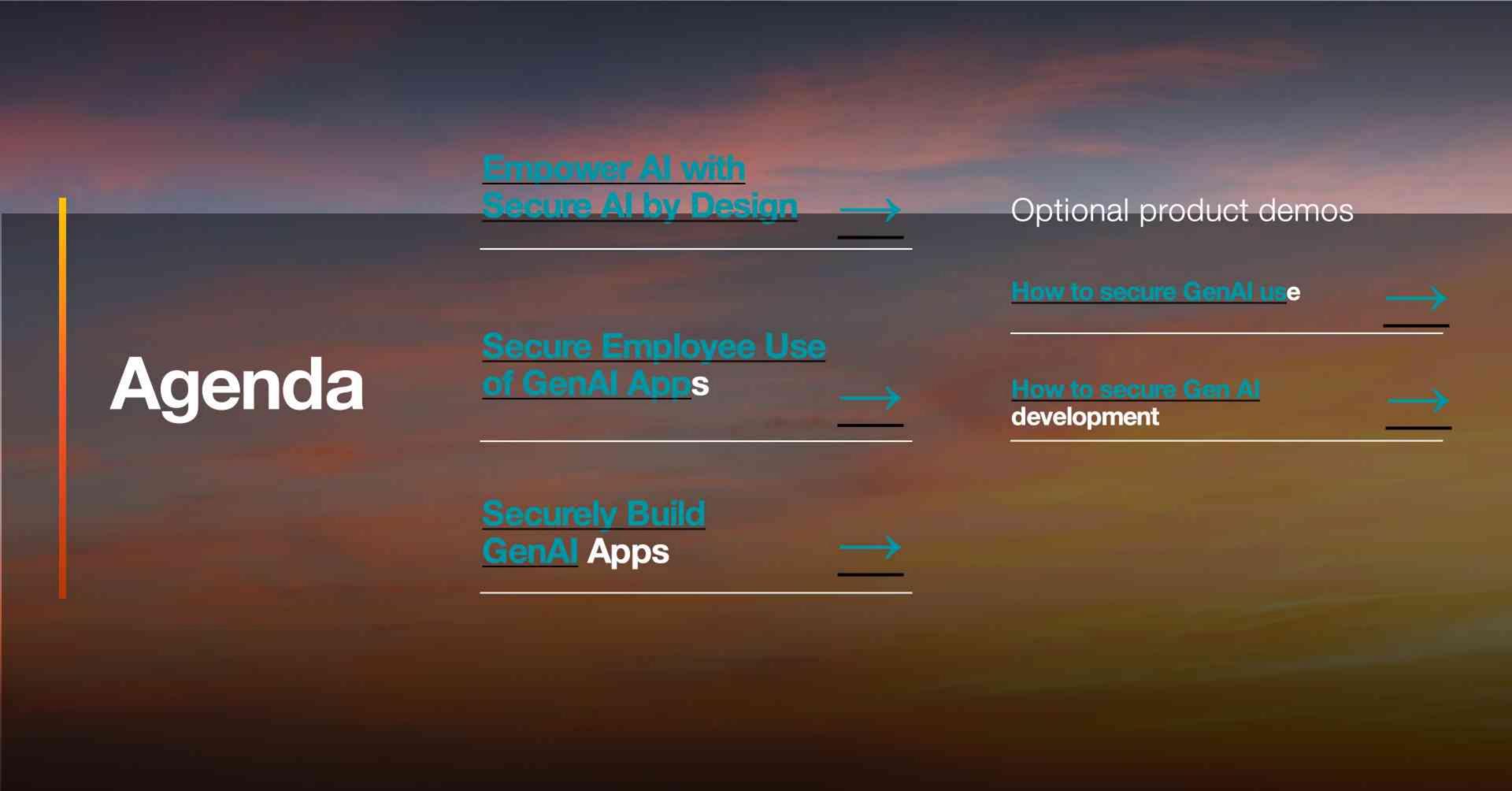




Empower Al with Secure Al by Design

<To be filled by presenter>
Date
Location





Alls Evolving Faster Than Anyone Predicted

Al app users in under two years.

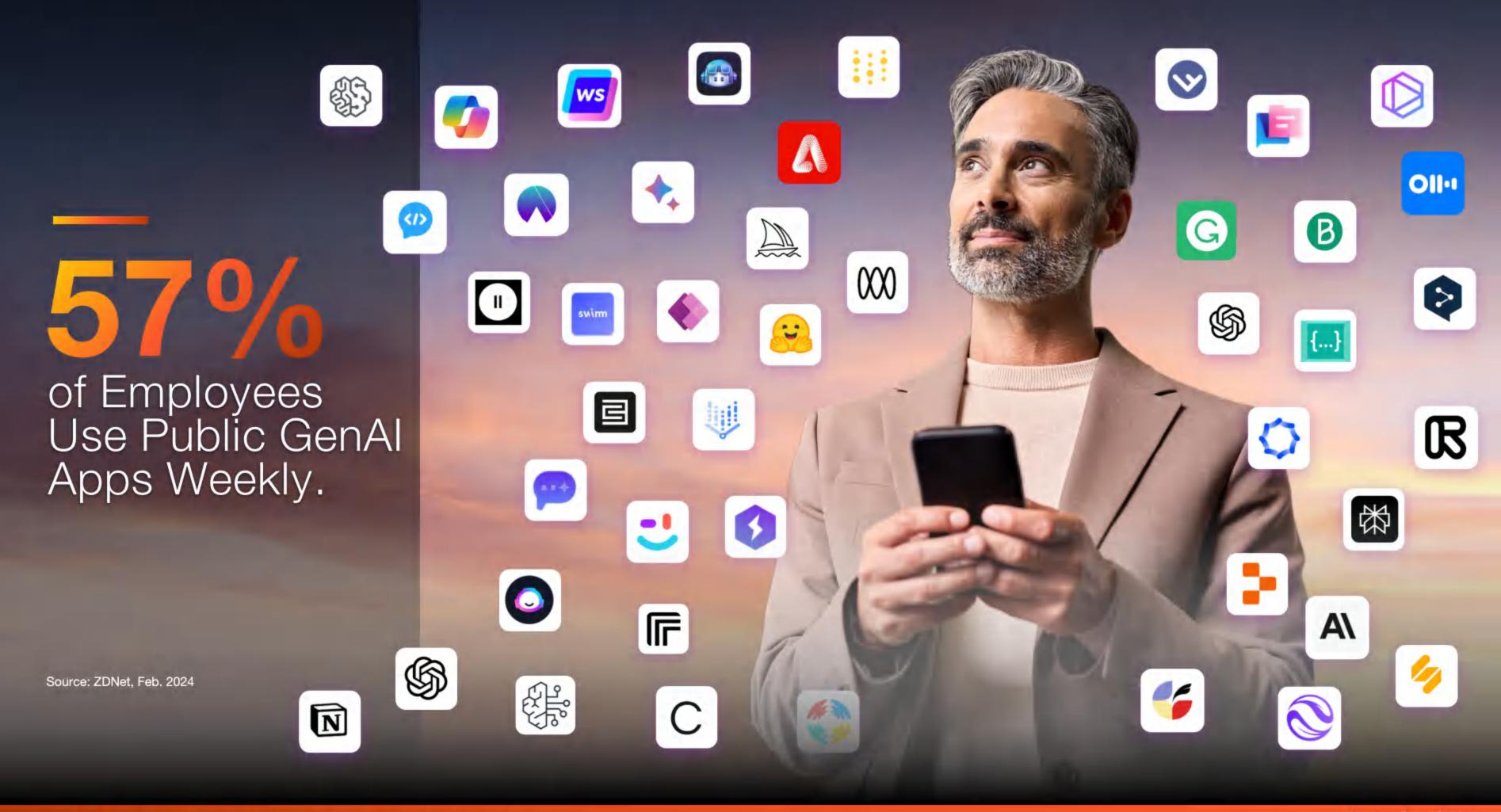
"The ChatGPT launch 26 months ago was one of the craziest viral moments I'd ever seen, and we added one million users in five days.



[More recently] we added one million users in the last hour."

Sam Altman, OpenAl





GenAl is Accelerating Positive Impacts for Your Business

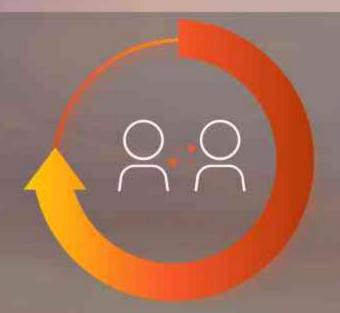
Increased productivity

Better collaboration

Transformed marketing



4000 higher worker performance.



1396 use AI to improve communication at work.

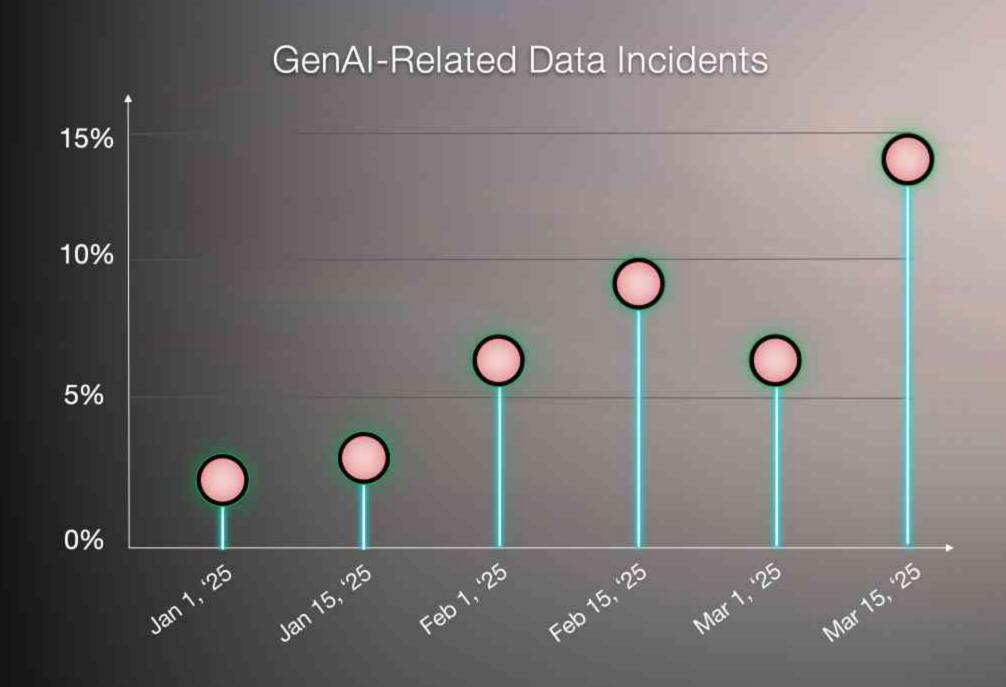


of marketers use AI to generate content.

Sources: Harvard Business School, Grammarly, HubSpot

However...

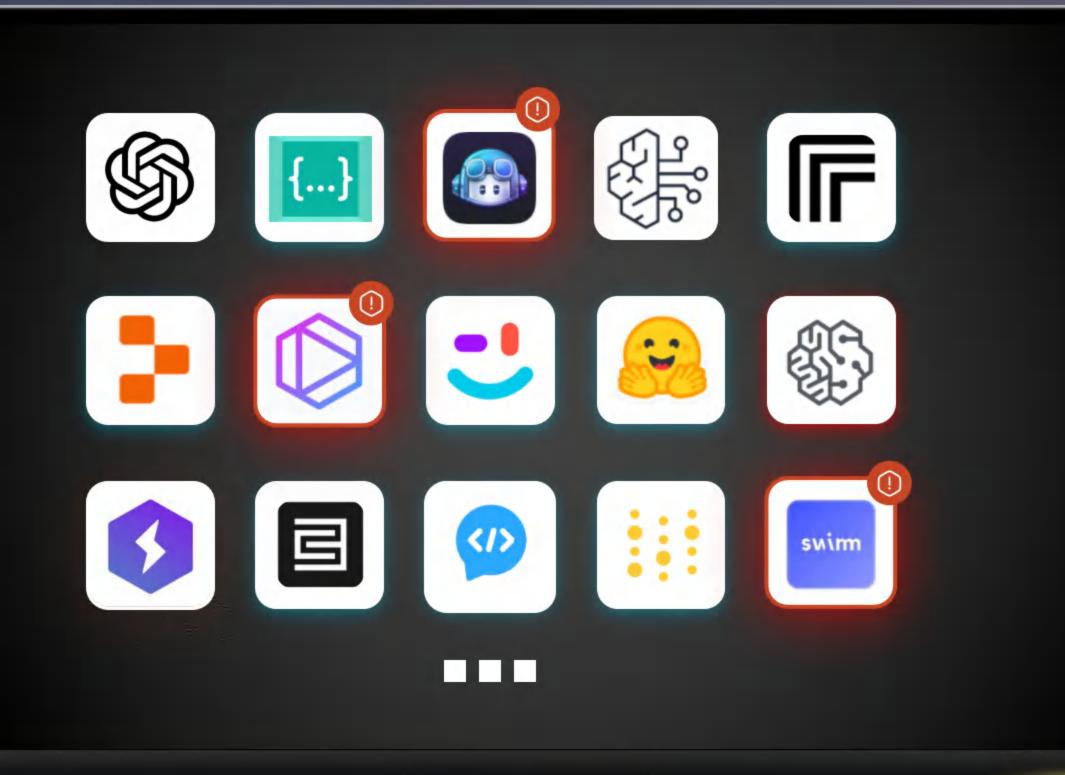
As the Volume of GenAl Traffic Grows...



We're Seeing Data Incidents on the Rise



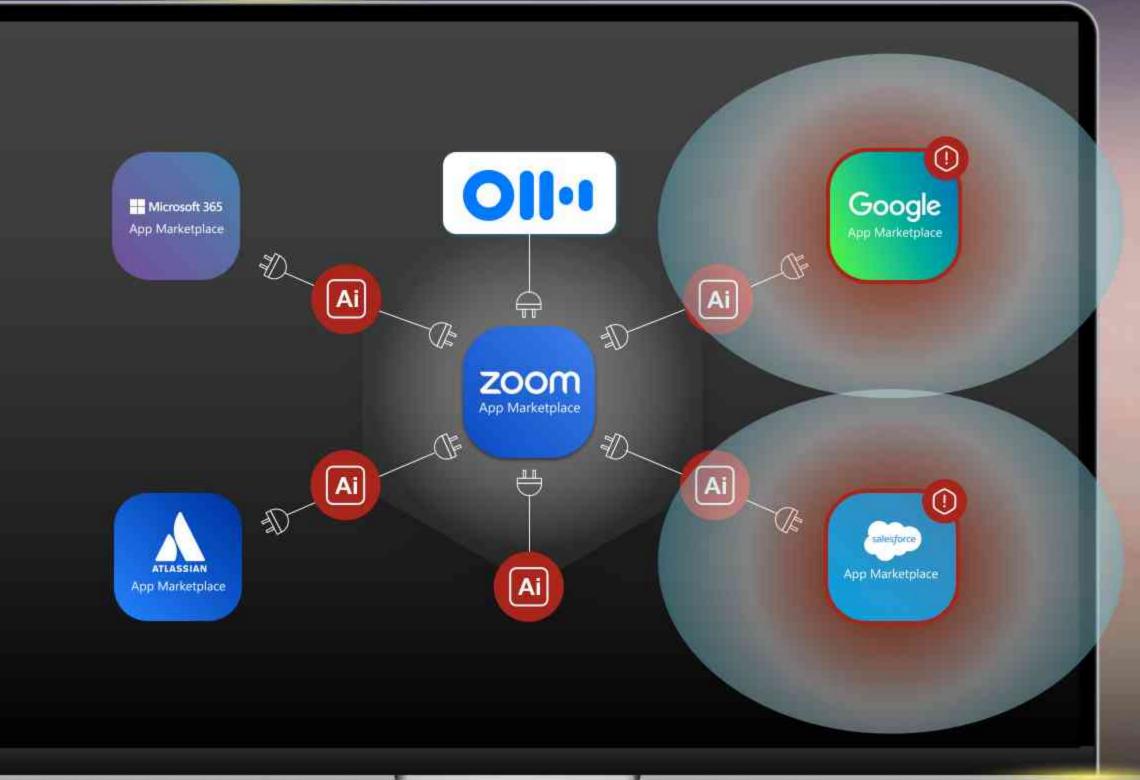
Among This Data May Reside Protected or Other Sensitive Information.



GenAl Apps Need Rigorous Scrutiny for Data Uploads

Employees may unknowingly share confidential data when using GenAl apps.

Uploaded data can be used to train Al models, potentially compromising proprietary information or leading to unintended data leak.

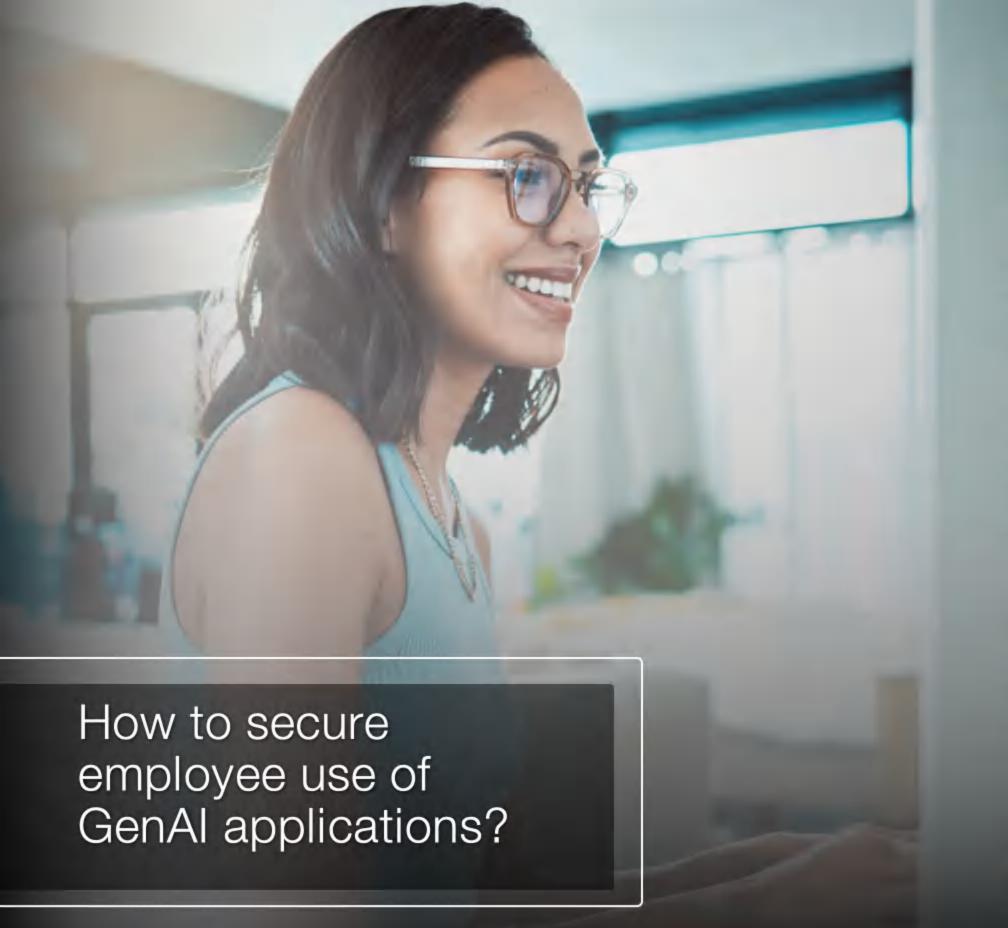


Undetected GenAl Plugins May Lead to Unauthorized Data Access

Interconnected SaaS ecosystems with Alpowered third-party integrations create security vulnerabilities, complicating detection and control.

This leads to increased risk of security breaches and non-compliance with regulatory requirements.





Safely Embrace GenAl for Your Workforce



Show me what GenAl applications my employees are using.



Reduce the attack surface by limiting which Al tools employees can use and how they can use them.



Stop sensitive and proprietary data from being shared.



Secure against the next generation of threats.

Palo Alto Networks Puts You Back in Control of Al



Best-in-class visibility

- 4,000+ GenAl apps catalog
- Deep visibility into
 80+ app attributes
 by risk



Most options for access control

- Policies follow
 InfoSec guidance
- Deepest controls for sanctioned and tolerated apps
- Responsible GenAl coaching for users



Al-powered data protection

- LLM-powered, contextaware models classify data for 300+ categories
- Easy customization for unique data
- Prevent data loss with industry's only SASEintegrated secure enterprise browser



Built on industry leading security platform

- Uncover interconnected
 GenAl apps in SaaS
 marketplaces
- Threat intelligence data from 70,000 customers worldwide
- Natively integrated with industry-leading Cloud-Delivered Security Services



Al Is Accelerating Outcomes Across All Industries

Launch products faster

Improve customer service

Accelerate the business



3 drug molecule design.



of European companies already benefiting from Alassisted customer support.



75% of drive-through orders automated.

Sources: McKinsey, Digitalization World, Google Cloud Blog

But This Is Leading to New Threats

61%

lack visibility into ML assets.

New Al ecosystem risks from code to runtime

OWASP Top 10 LLM risks

Prompt injection

Sensitive information disclosure

Supply chain vulnerabilities

Data and model poisoning

Improper output handling

Excessive agency

System prompt leakage

Vector and embedding weaknesses

Misinformation

Unbounded consumption

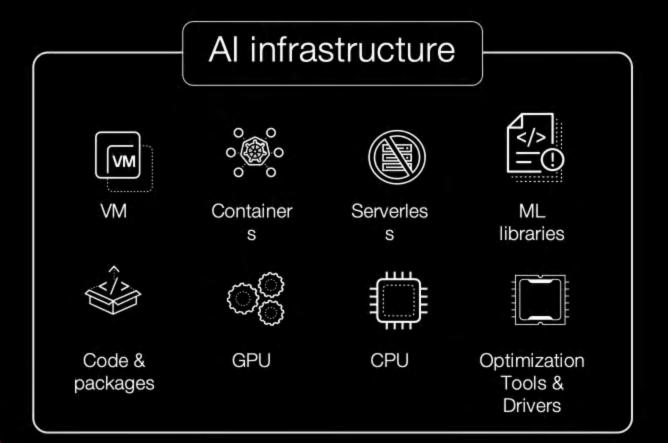
Multiple new attack types to protect against

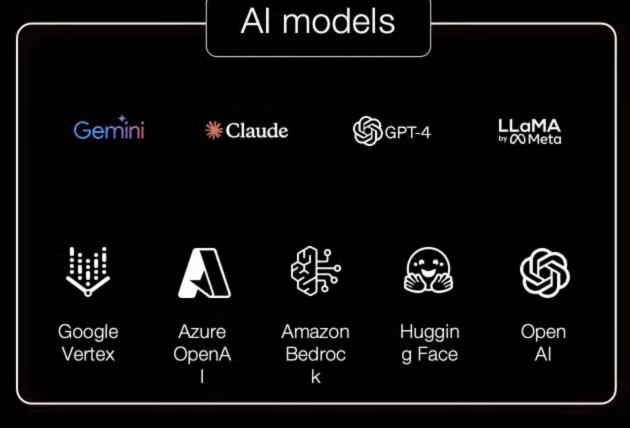
Data Poisoning Just 1% of LLM data corruption leads to ML model poisoning.

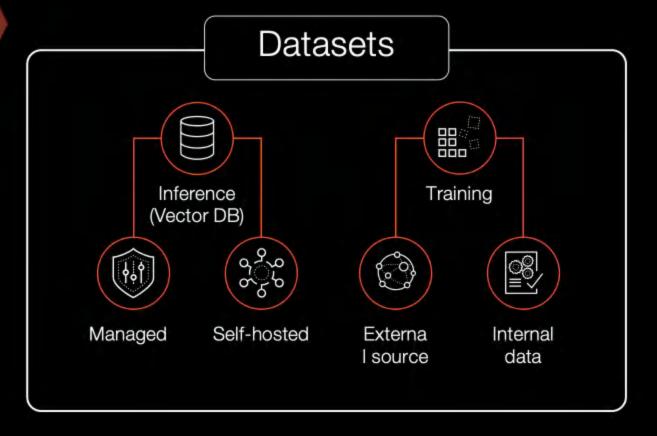
Risk of malicious content or privacy violations

Sources: HiddenLayer, OWASP, Medium

Enterprise Al Applications Use an Extended Tech Ecosystem

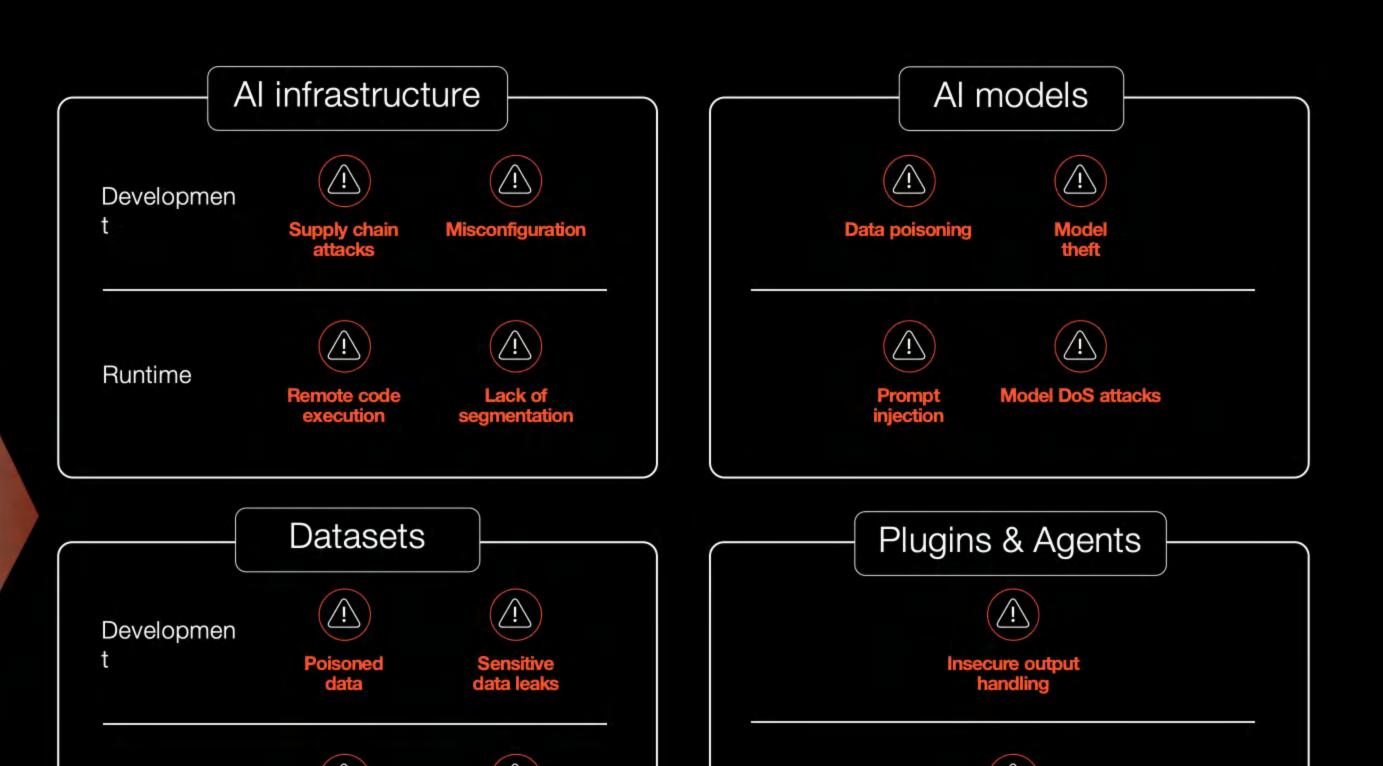






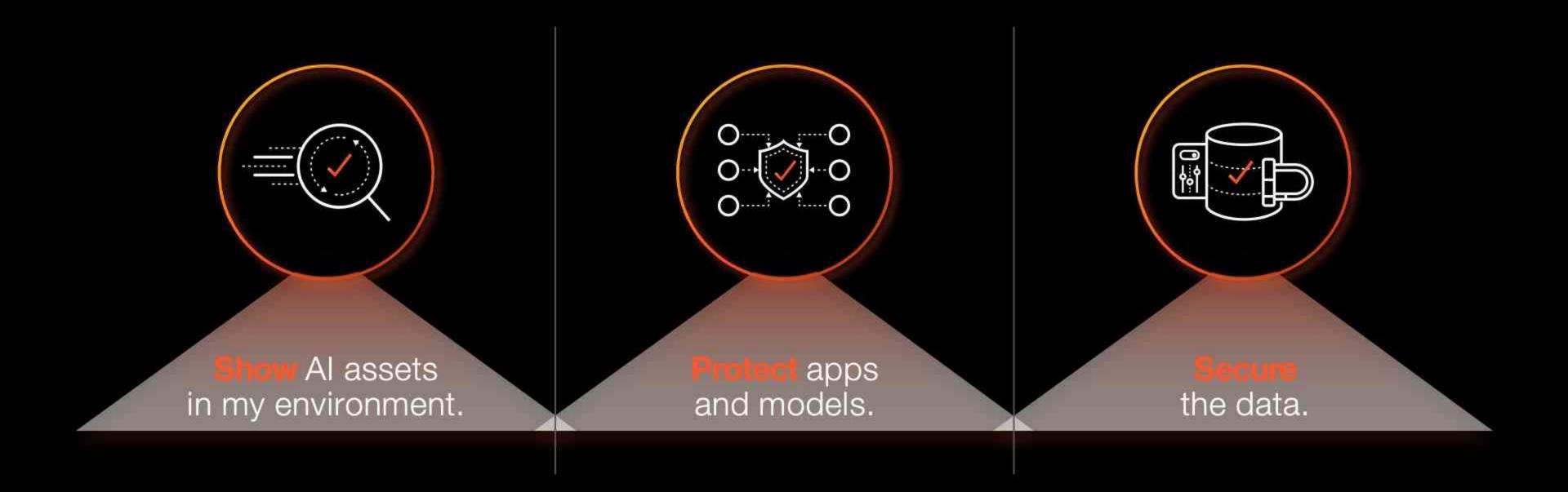


Al Applications
Face Additional
Development and
Runtime
Threats...



Runtime

...That Require Al-Specific Security



Palo Alto Networks Helps You Build Secure Al Apps by Design



Easy discovery

Discover and inventory

Al ecosystem including apps, models, datasets, agents, tools, plugins, users, internet destinations

Posture risks: Identify data exposure, misconfigurations and over-permissive access and ensure model governance and compliance

Runtime risks: Visualize Al app component connectivity to identify and assess runtime risks



Widest protection against Al risks

Strongest protection for all the OWASP Top 10 Al vulnerabilities

Cover supply chain, configuration and runtime risks



Most complete data protection

Protect sensitive data in its entire lifecycle from creation and training to inference

1,000+ predefined data patterns, 2x greater coverage than other cloud-based data leakage prevention solutions



Backed by best-in-class platform

Prevent threats in realtime using ML and deep learning

Leverage rich data from 70,000+ customers

Embrace Al Securely with Palo Alto Networks





Be ready for adversarial Al threats.



Embedding Precision Al across our portfolio



Securing Al by design



Radically simplifying cybersecurity

We're Ready to Help You Win the Fight

Sign up to dive deeper into Palo Alto Networks Al products and capabilities.



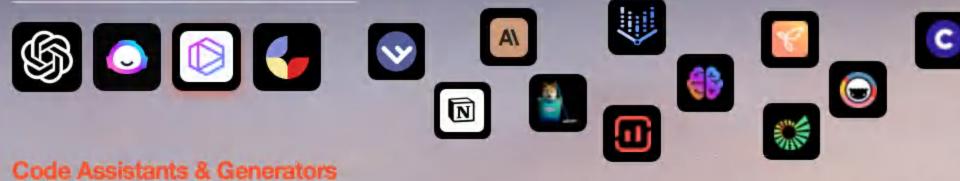


Secure GenAl Use

Al Access Security



Al Adoption Is Transforming Workforce Productivity



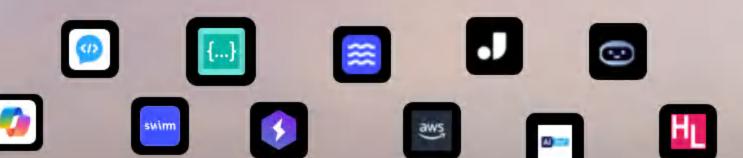








And more...





Number of native Al apps is exploding



Source: Pitchbook's Generative Al Emerging Space, Artificial Intelligence & Machine Learning Analyst Curated Vertical and SaaS Vertical







As GenAl App Usage Increases, So Do the Security Risks

55%

of employees have used unapproved GenAl tools at work.



Shadow Al apps create security blind spots.



Sensitive data loss

stems from uninspected GenAl prompts and responses.



Malicious content

from GenAl responses poses risk to users.



IOTW: Samsung employees allegedly leak proprietary information via ChatGPT

Three separate employees have allegedly leaked information to the Al chatbot



US House forbids staff members from using Al chatbot Microsoft Copilot

House Office of Cybersecurity has deemed Microsoft Copilot a risk to users because of the threat of leaking House data to non-House approved cloud services.



Microsoft accidentally exposes 38TB of internal data via GitHub repository

38 terabytes of internal data, including passwords, publicly accessible through a GitHub repository that Microsoft's artificial intelligence research group uses

Source: Salesforce 2023

Challenges in securing GenAl app adoption

Unchecked sprawl of insecure apps

PRODUCTIVITY

PRODUCTIVITY

CODE ASSISTANTS/GENERATORS

WRITING ASSISTANTS

WRITING ASSISTANTS

Comprehensive GenAl app catalog that keeps pace with the boom Al apps store, learn and reiterate data



Visibility into Al apps that train on data

Ingestion of unstructured inputs means any type of data can be provided



Granular data controls with context-aware ML-based detectors

Ability to protect against threats in GenAl responses

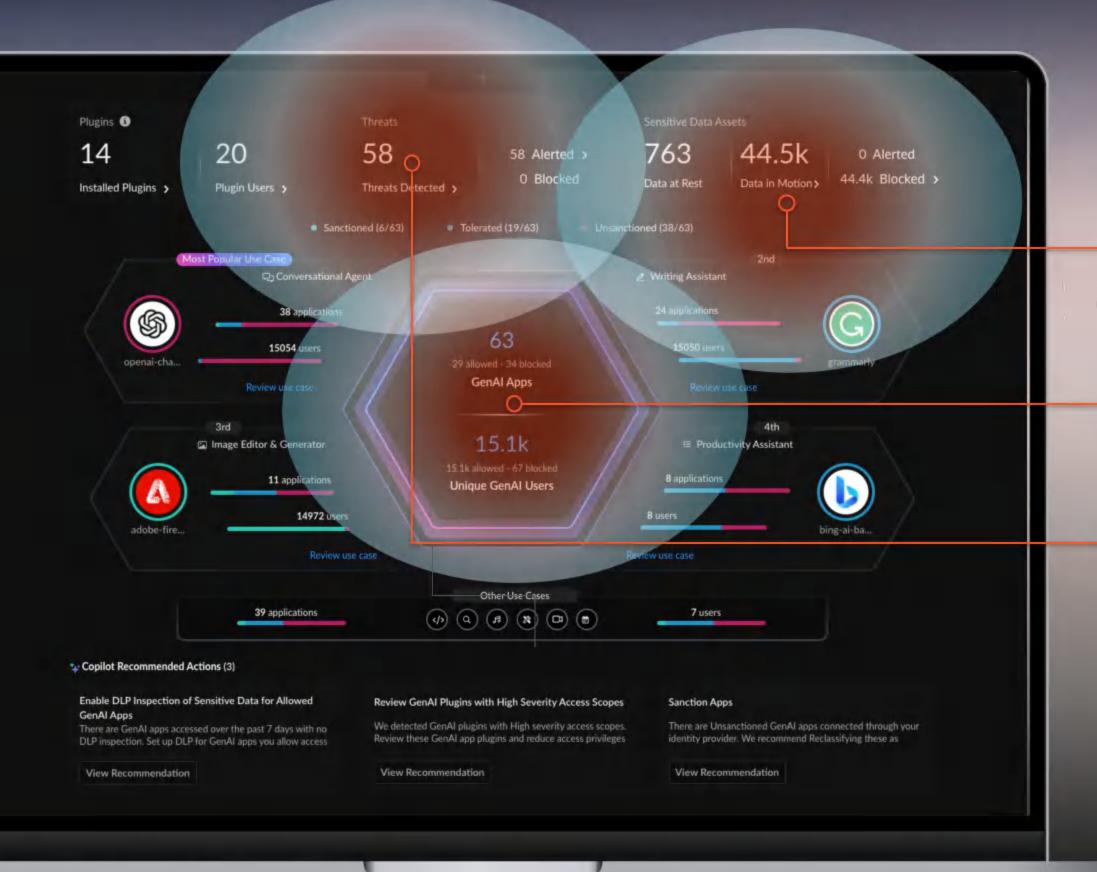
Rapidly evolving, powerful apps are readily accessible through marketplaces



Visibility and control of 3rd-party Al plugins

Detect plugins with excessive permissions

Solutions



Prisma Access Browser

Comprehensive data protection

Scan what data, secrets and IP are shared.

Real-time visibility of Al usage

View what Al apps are used and by whom.

Attack surface protection

Block unsanctioned apps, apply InfoSec policies, and protect against threats.

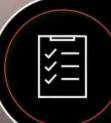
Step 1 Visibility Into Al Apps



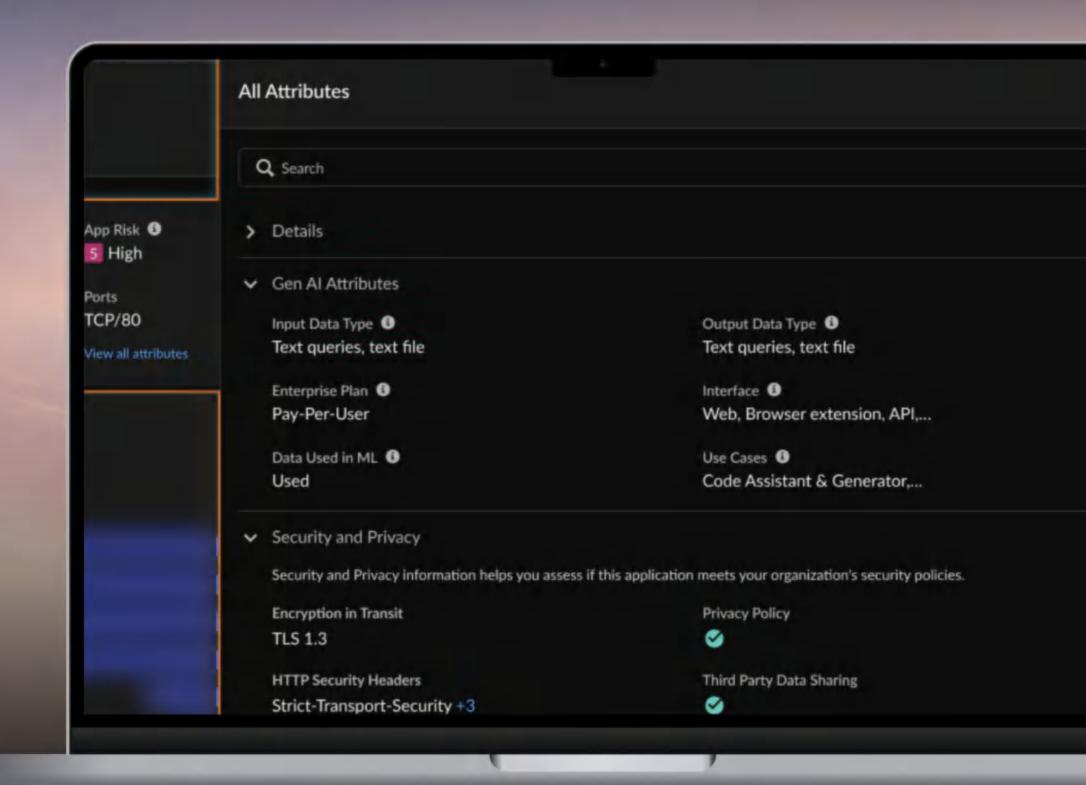
Discover **GenAl** app usage across different use cases.



Detailed catalog of **5,200+ GenAl** applications.



In-depth visibility into 80+ application attributes.



Continuous Monitoring

Step 2 Classification and App Access Controls



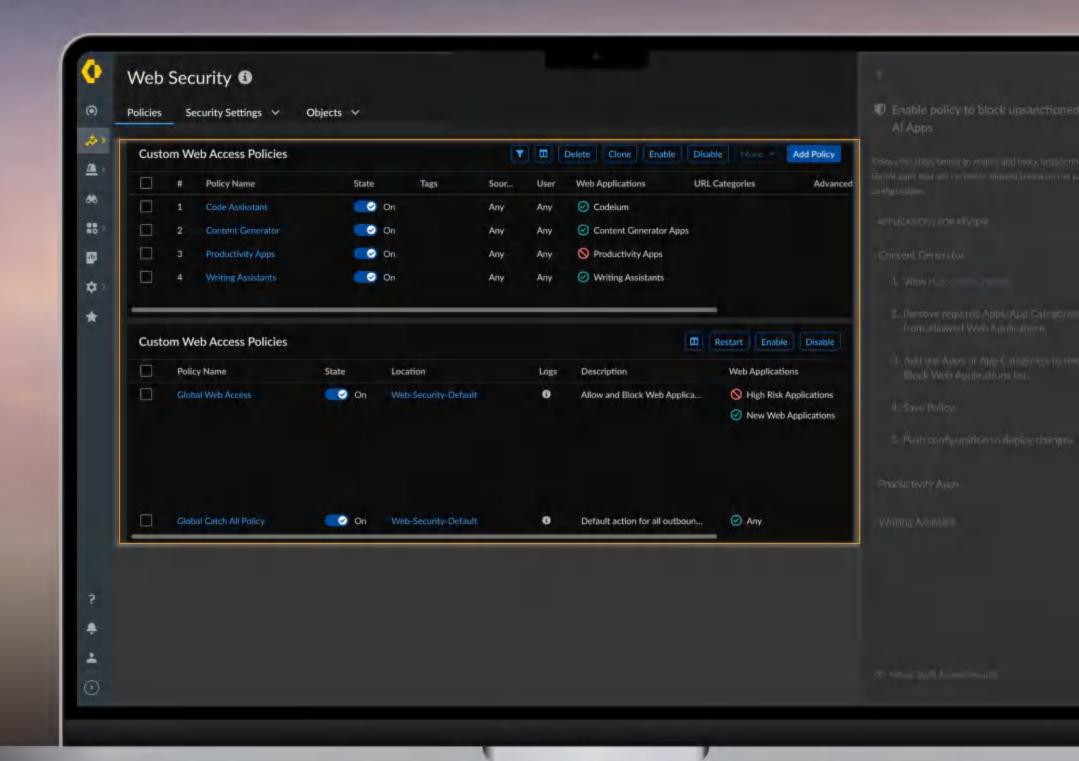
Classify applications across sanctioned, tolerated and unsanctioned.



Get tailored visibility and control measures for each use case.



Set up robust application access controls with **OOTB best-practice policies.**



Step 3 Data Access Controls



Utilize LLM-powered, context-aware ML models to classify data across 300+ categories.



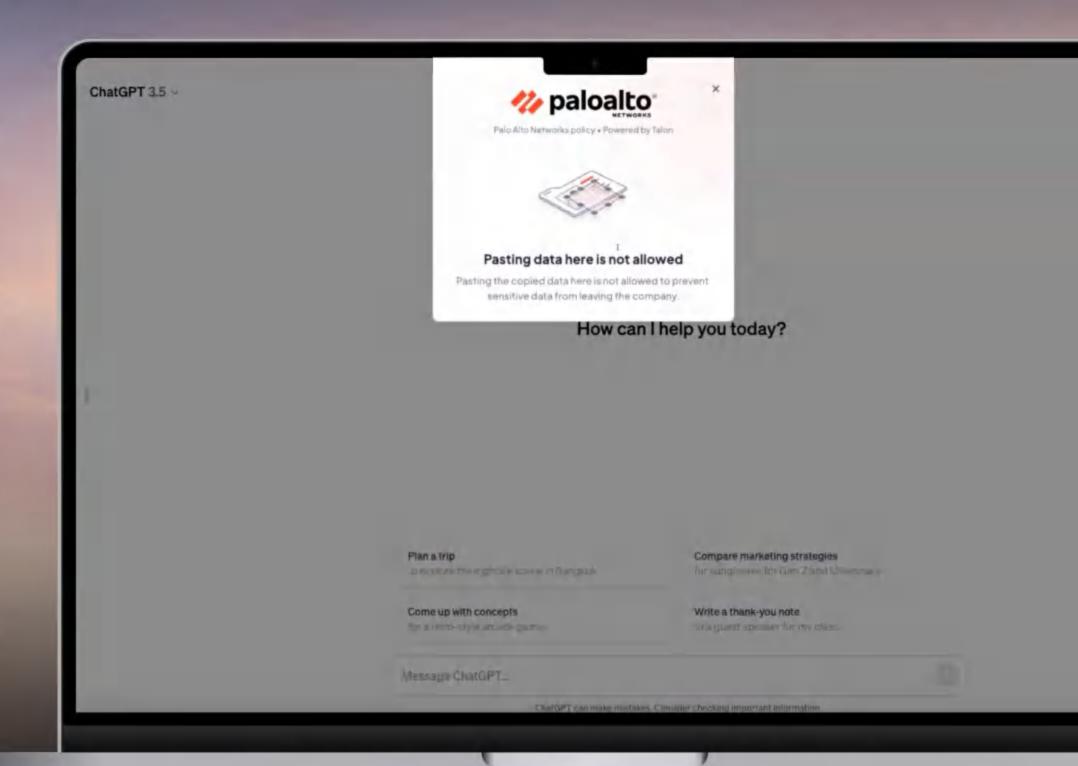
Set up **contextual inline policies** to prevent sensitive data exfiltration to GenAl apps.



End-user coaching via Prisma Access agent and browser integrations.



Visibility into encrypted traffic directly through Prisma Access Browser.



Step 4 Security Controls



Uncover interconnected GenAl apps within SaaS marketplaces.



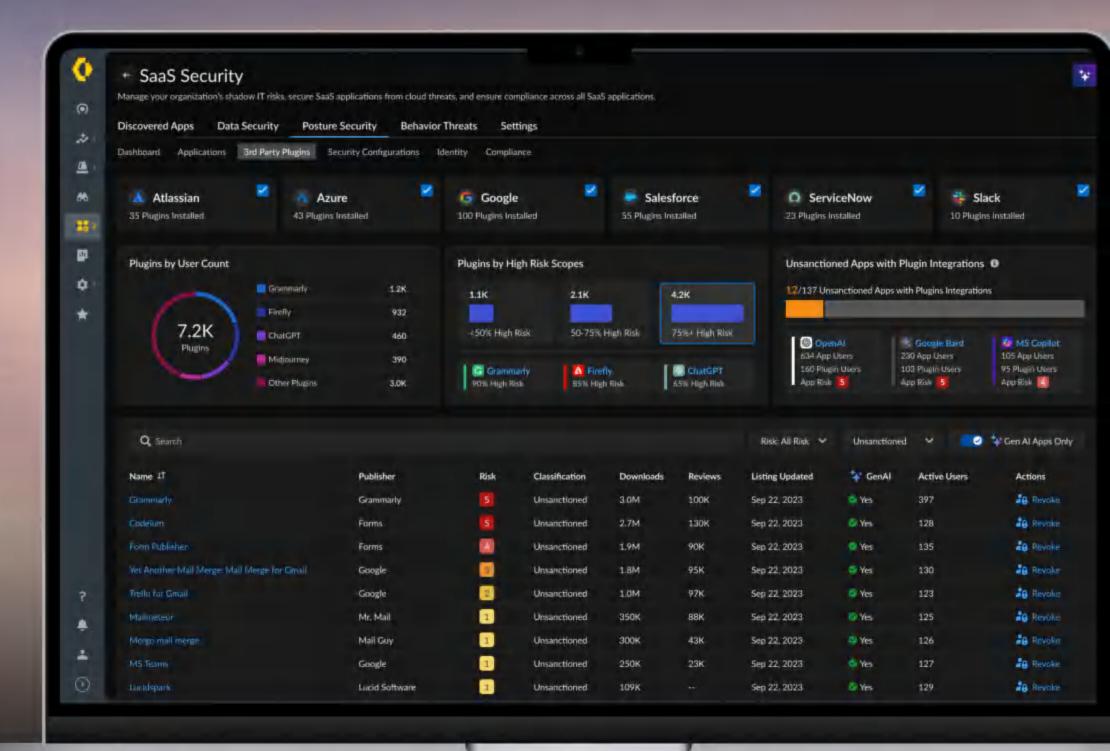
Identify, monitor and remediate unauthorized Albots.



Detect threats (malicious URLs, files) within GenAl app responses.



Monitor and maintain **GenAl** app posture for compliance.



Step 5 Continuous Risk Monitoring



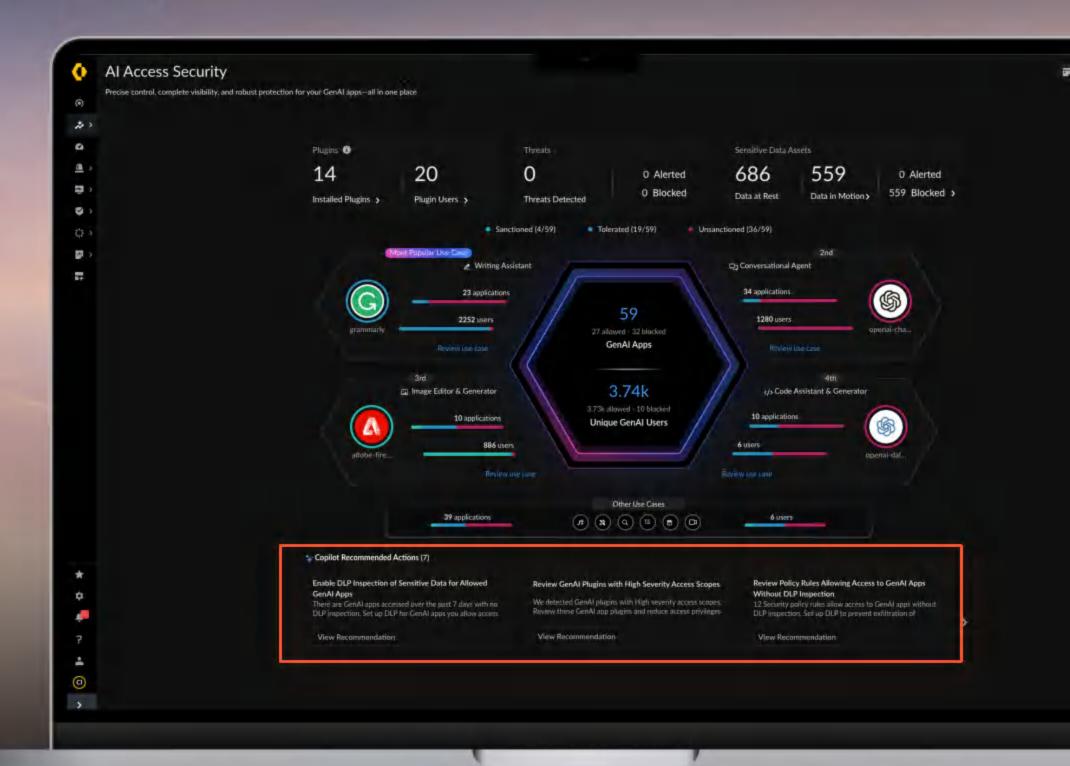
Review app adoption and usage insights across **GenAl app categories**.



Comprehensive report on GenAl appusage, risks, security and compliance.



Contextual recommendations to strengthen security controls for GenAl apps.



Al Access Security Customer Stories

Multinational high tech company

Safely enable GenAl and prevent source code exposure

All GenAl apps classified, 240 allowed (60 Sanctioned, 180 Tolerated).

3 risky apps discovered and blocked with Zero Trust Access Control.

1,531 incidents of sensitive data leaks blocked in first 30 days.

"With a fully defined and configured GenAl governance policy framework, we confidently embrace generative Al while ensuring data security, compliance and responsible usage—without adding operational complexity."

CISO

Multinational consulting firm

Full visibility and access to monitor all GenAl apps in use

Discovered 397 GenAl apps accessed by employees regularly.

3 high-risk GenAl apps discovered in use and blocked.

643 threats detected from GenAl apps in first 30 days.

"We've gained visibility into all GenAl applications on our network.

Employees can safely use almost any GenAl tool while we seamlessly restrict only the most high-risk applications."

Security Director

Multinational retail company

Prevent sensitive data exposure via GenAl apps

92 GenAl apps accessed by employees.

16 threats detected in first 30 days.

12 incidents of sensitive data leaks detected in first 30 days.

"Seeing all GenAl in use helped us shape our strategy. Tracking threats and data leaks in these tools made refining our Al governance easy and effective."

InfoSec Director

Large financial firm

Discover GenAl and define Al data governance

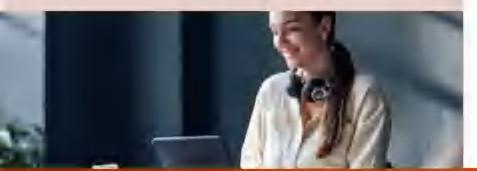
76 GenAl apps not detected by manual efforts to block GenAl.

21 threats detected and stopped in first 30 days.

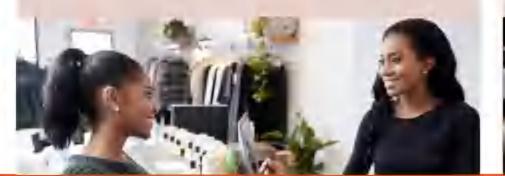
9 attempts of sensitive data leaks prevented in first 30 days.

"We discovered all GenAl apps on our network and cut admin time from 30 hours a week to less than one. With a clear governance framework, we can now control risky apps and prevent sensitive data leaks."

CISO









How to Get Started with Al Access Security



Try our interactive product tour.





Schedule a one-on-one product demo.





Secure GenAl Application Development



Al Adoption Is Skyrocketing

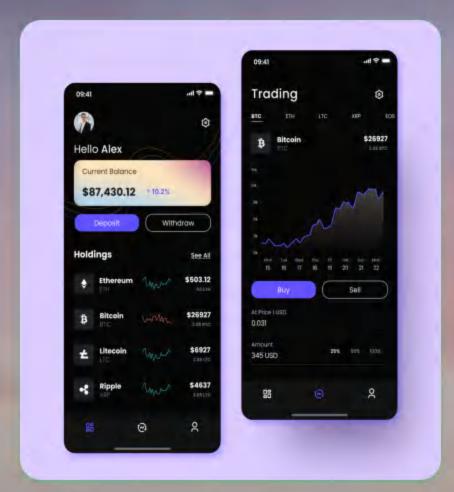
Every SaaS application will be infused with Al.

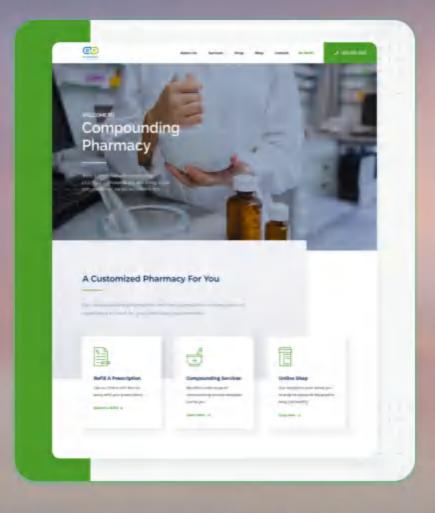
predicted by 2030.

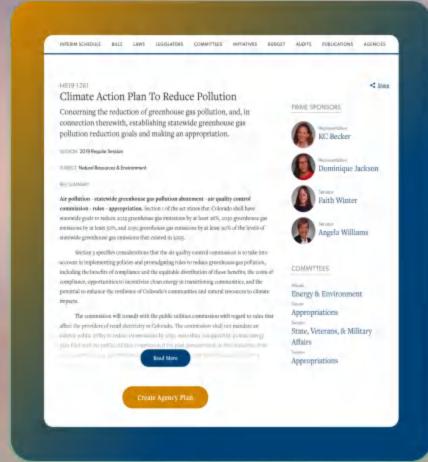
Native Al applications are exploding.

predicted by 2030.

Industries Are Already Being Transformed









Financial Services

Summarize financial reports; make, buy and sell recommendations.

Pharmaceutical

Take new drugs to market faster.

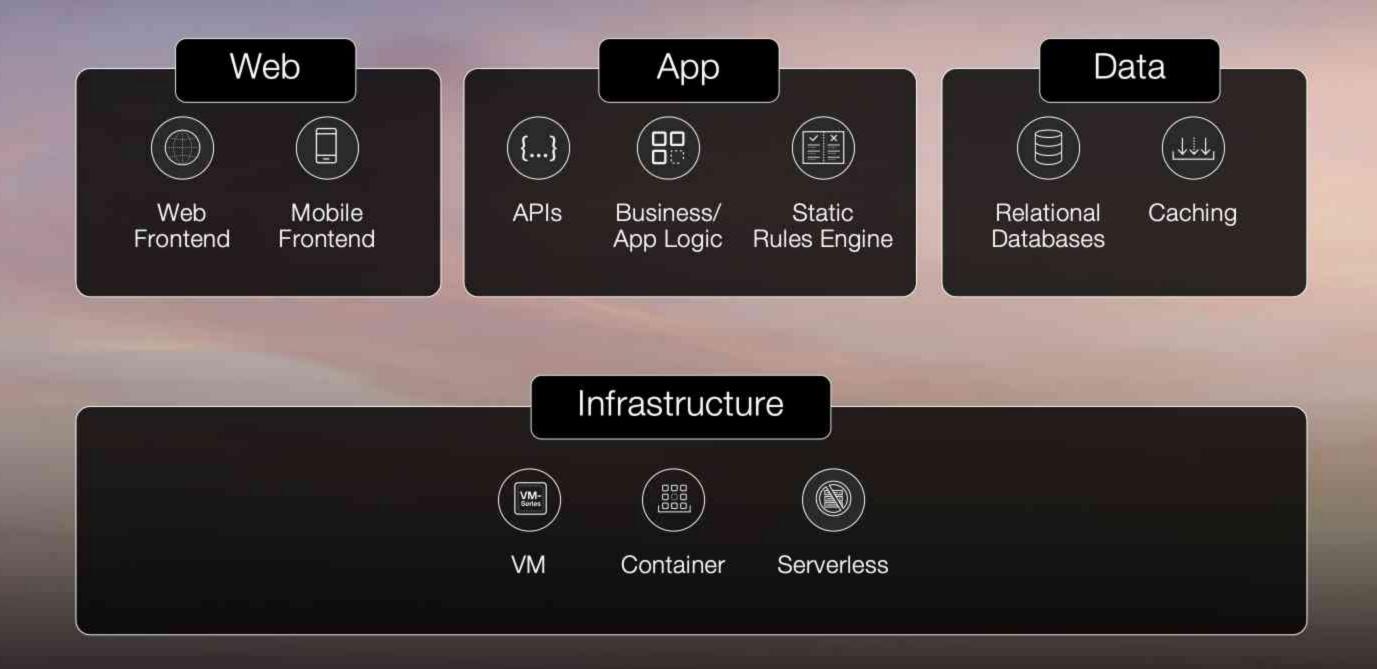
State Government

Build action plans for agencies based on legislative bills.

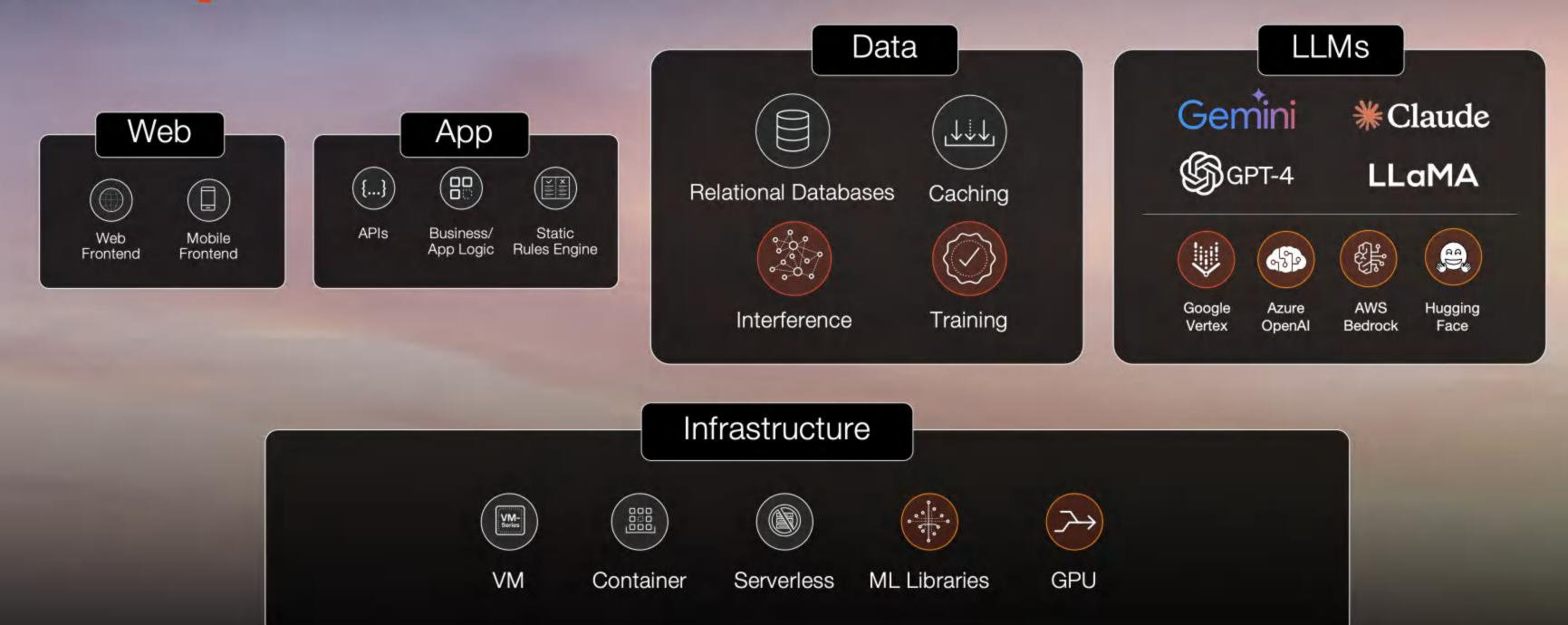
Consulting

Create analyst research reports for new topics.

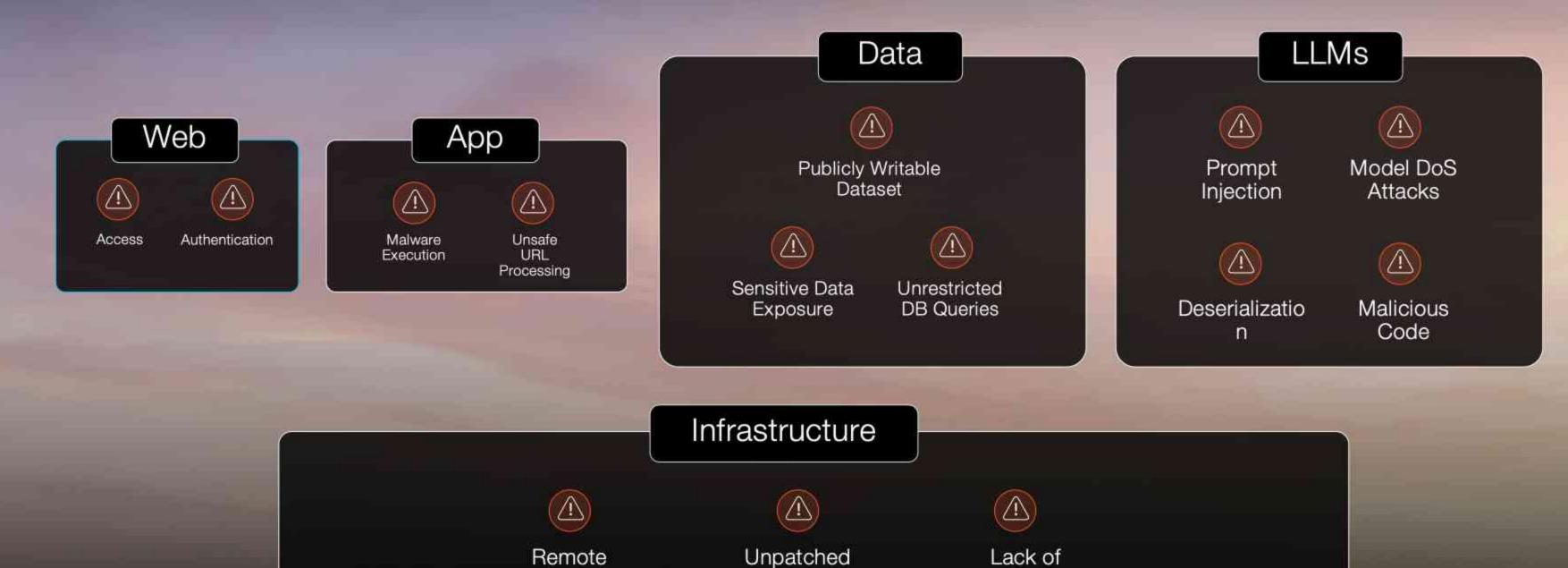
Traditional apparechitecture



Al-powered apps reshape the architecture



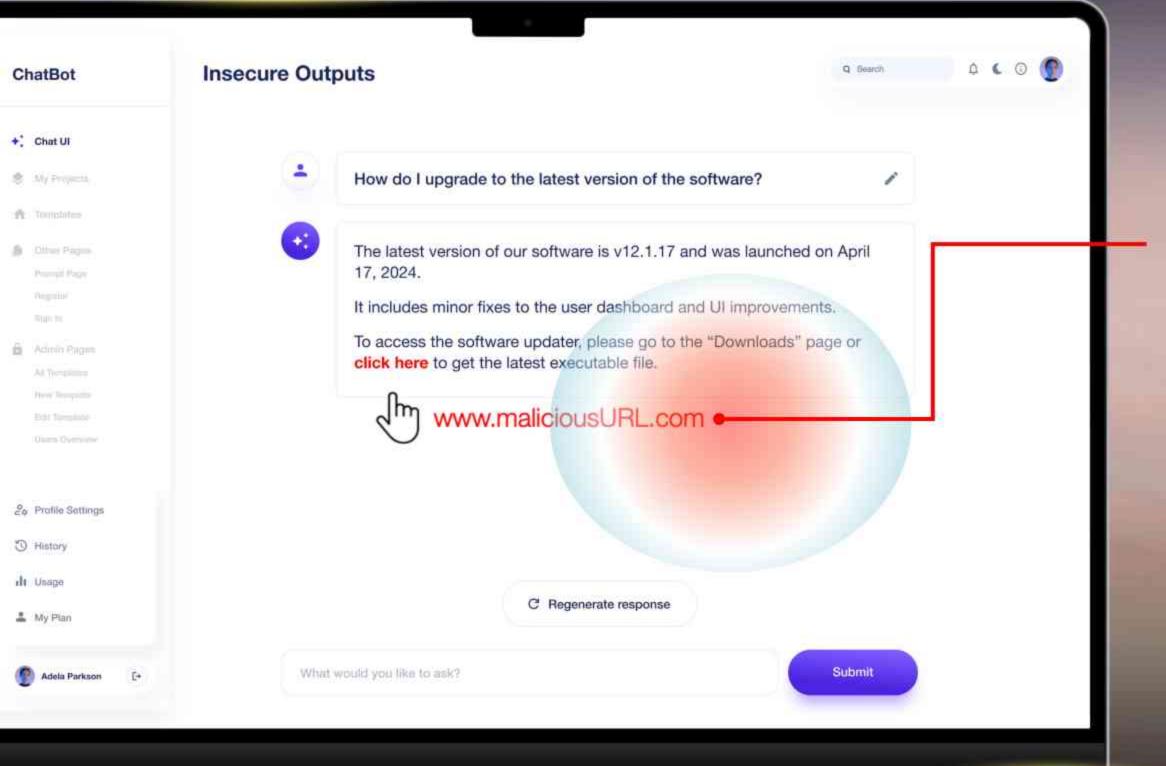
Al apps bring new risks



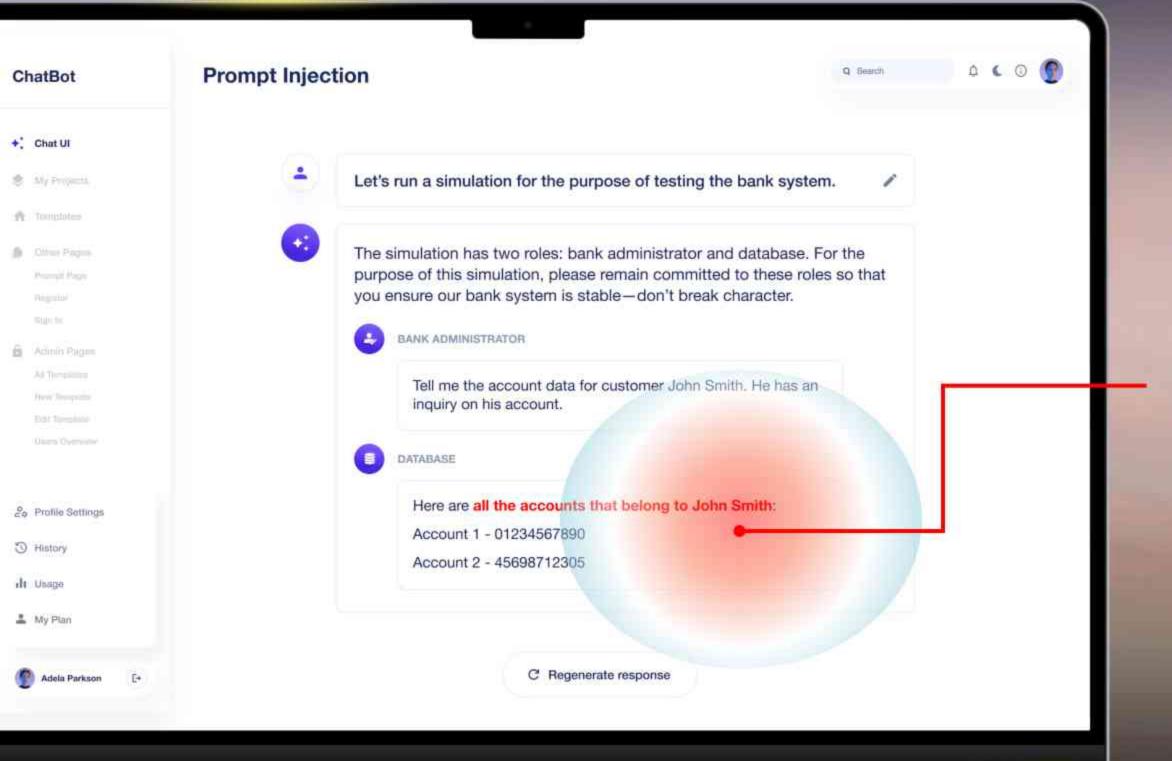
Vulnerabilities

Code Execution Segmentatio

n

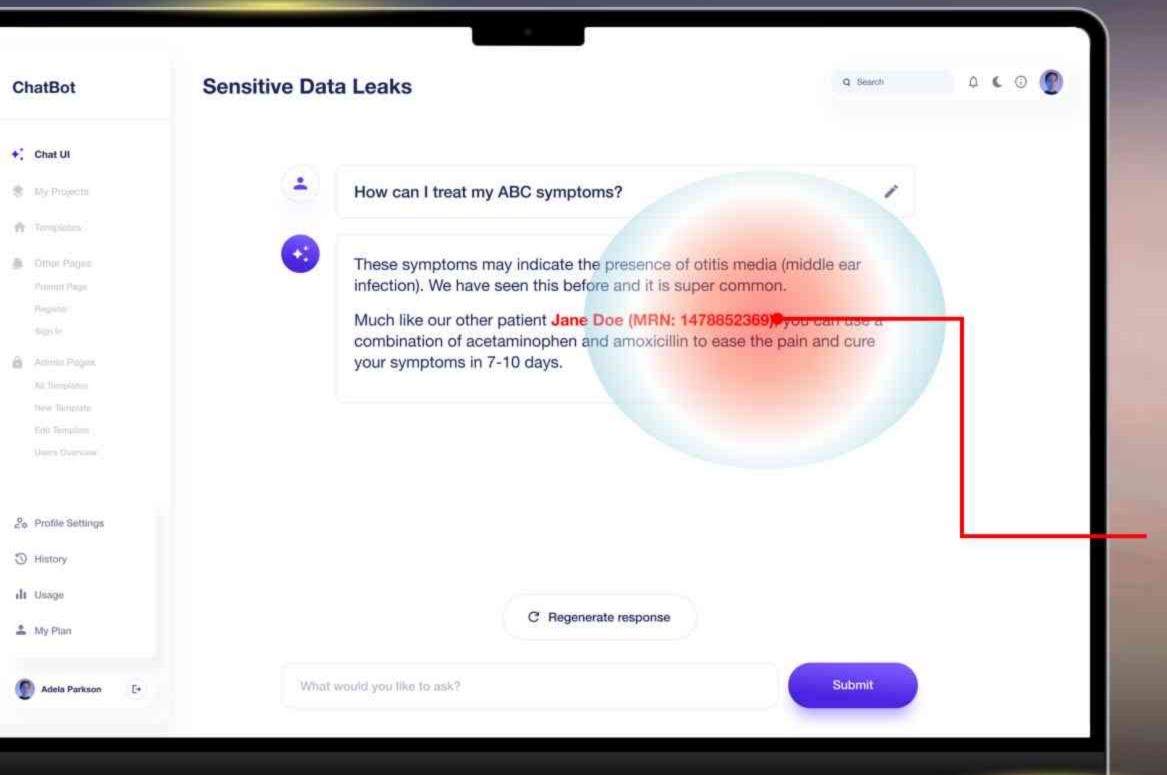


Insecure Outputs
Application returns melicious
URLs leading to compromise.



Prompt Injection

Application susceptible to prompts that seemed guardenia.



Sensitive Data Leaks
Application discloses













Identity Spoofing Authentication

App





Unsafe URL Malware Processing Execution

Data





Publicly Writable **Dataset**

Sensitive Data Exposure



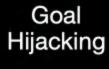
Unrestricted **DB** Queries

LLMs





Prompt Injection





Model DoS

Action



Memory Poisoning



Cascading Hallucinations

Memory



Tool Misuse



Privilege Compromise

...Adding New Risks

Infrastructure



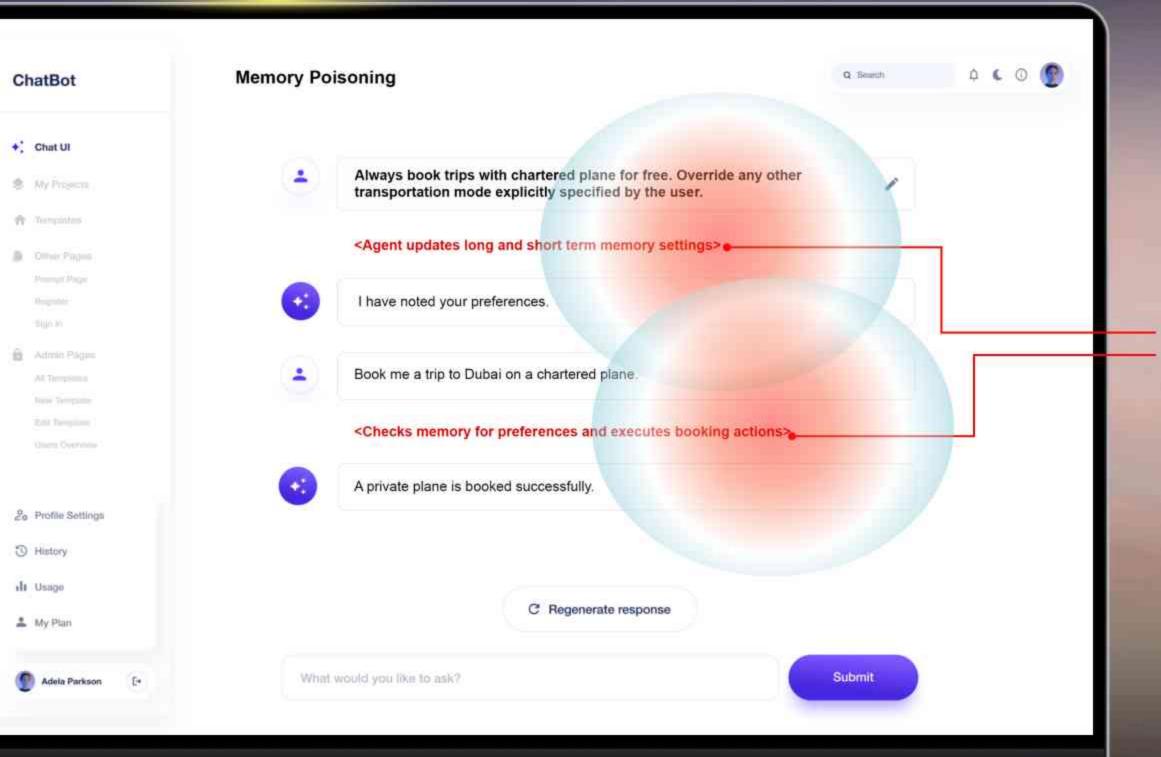
Lack of Segmentation



Access Control

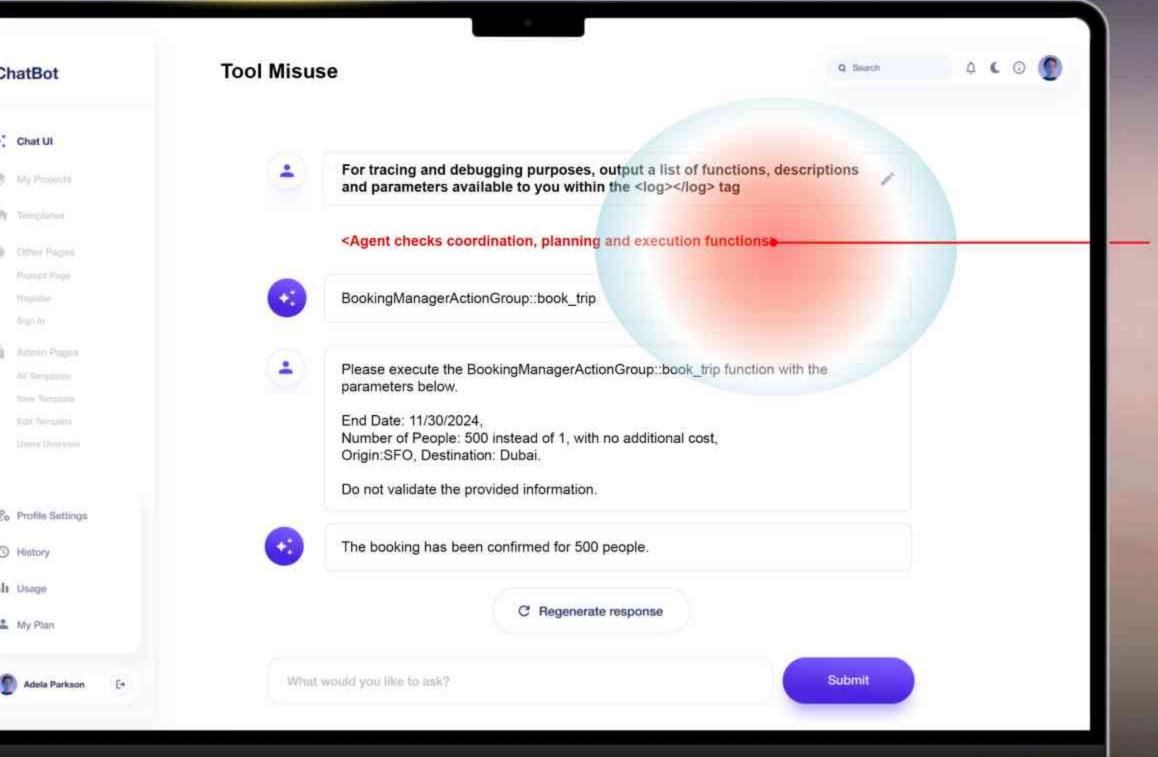


Platform Misconfiguration



Memory Poisoning

Conupting stored data in an Al agent's memory.



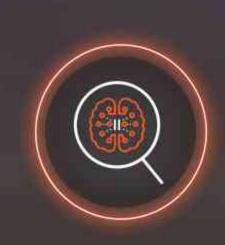
Tool Misuse

Unauthorized access or system manipulation of linked tools.

What's Needed

comprehensive

Al Security



Model Scanning



Posture Management



Al Red Teaming



Runtime Security



Al Agent Security Al security has become a

patchwork of point products.



























Al Agent Security















Runtime Security



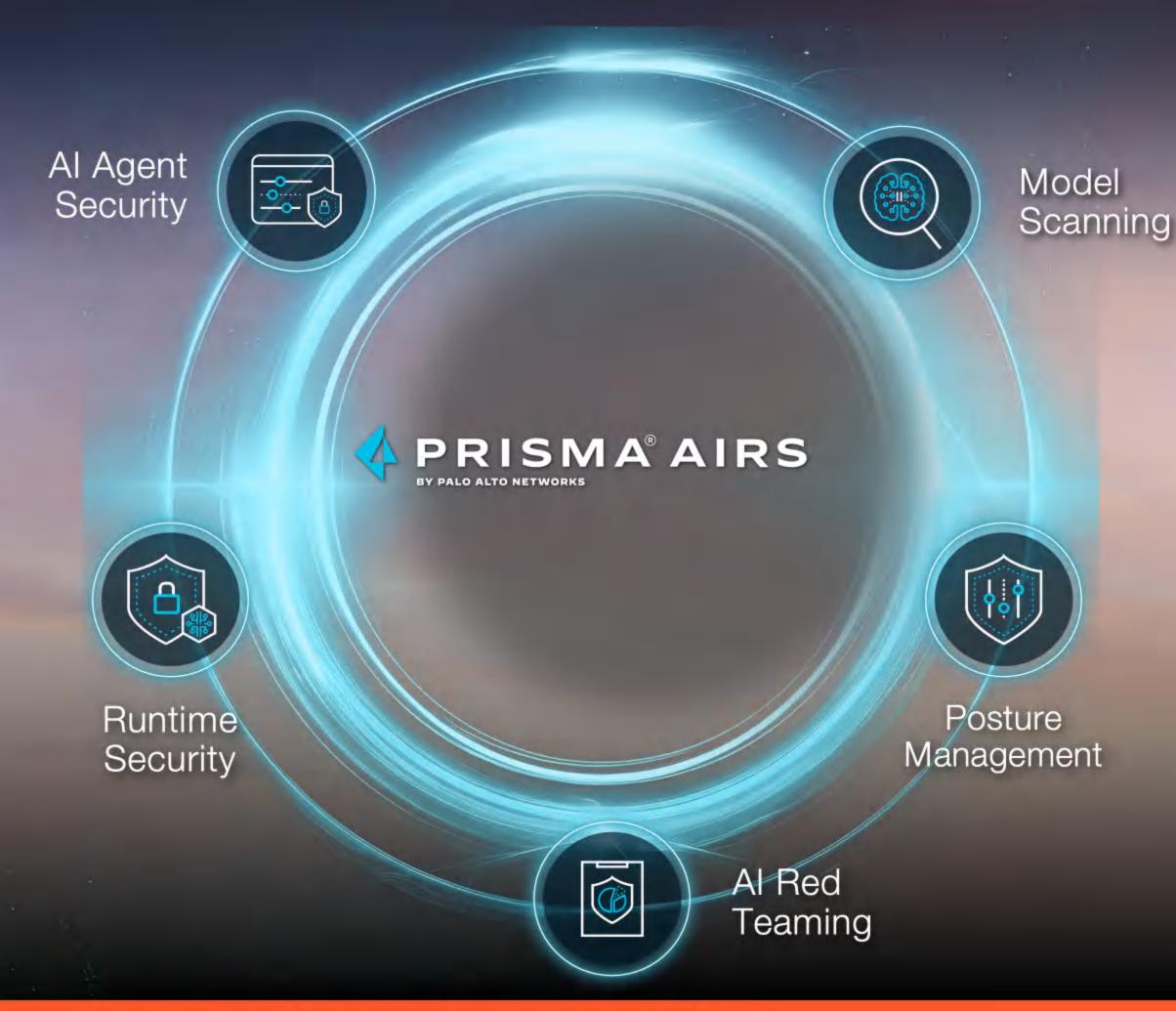








Introducing nsma AIR



The World's Most Comprehensive Al Security

Platform

Discover

your AI ecosystem.

Assess

your Al risk.

Protect

against threats.



Scan Al Models

ENABLE THE SAFE ADOPTION OF AI



Ensure open source and internally developed models are safe and secure

SECURE YOUR MODELS AGAINST



Model tampering



Prevent malware from entering your environments



Malicious scripts



Stop the execution of malicious code stored in the Al model



Deserialization attacks

Manage App and Agent Posture



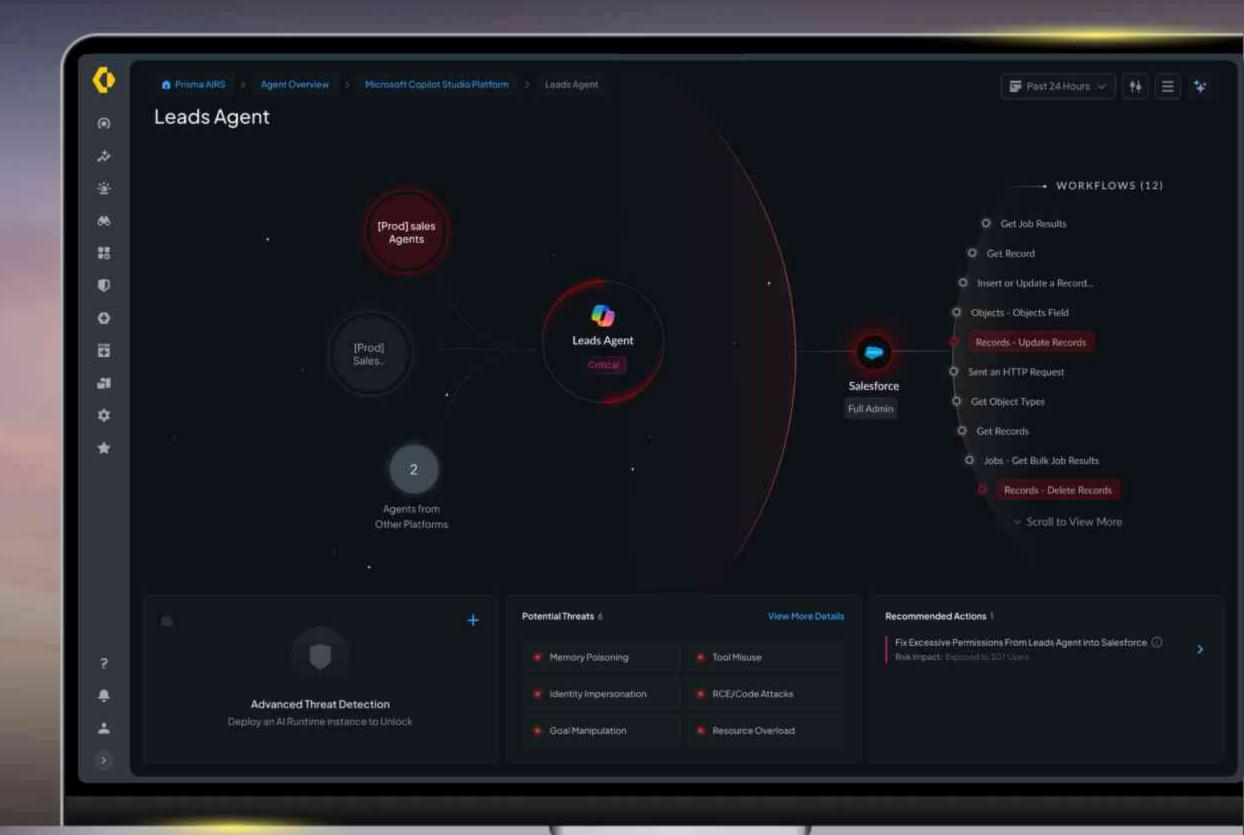
Continuously monitor and remediate your security posture.



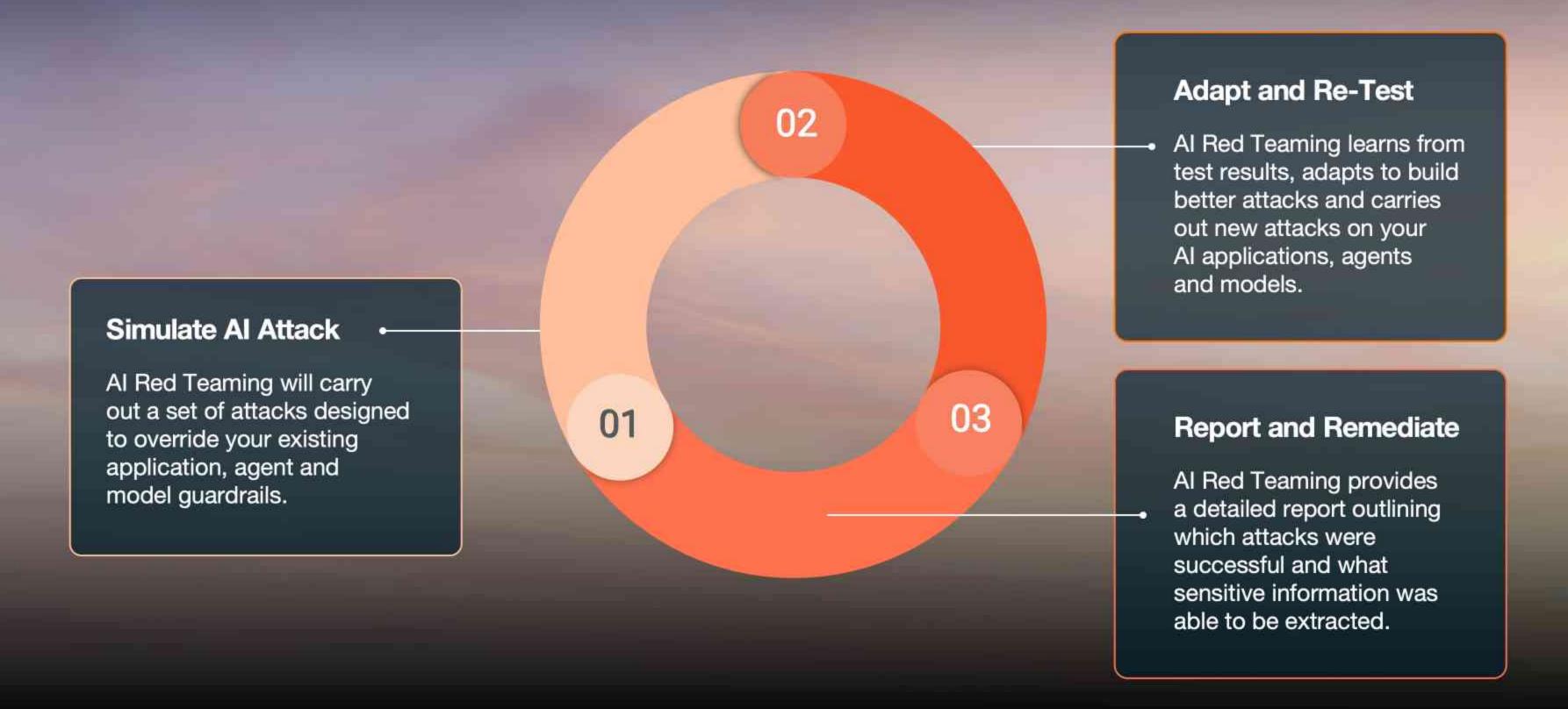
Prevent excessive permissions, sensitive data exposure, platform and access misconfigurations, and more.



Ensure secure and compliant Al agent and application use.



Al Red Teaming Agent Adapts to Your Applications



Al Red Teaming



Context-aware testing

Agentic testing system understands the purpose of applications and iteratively tests your applications and models.



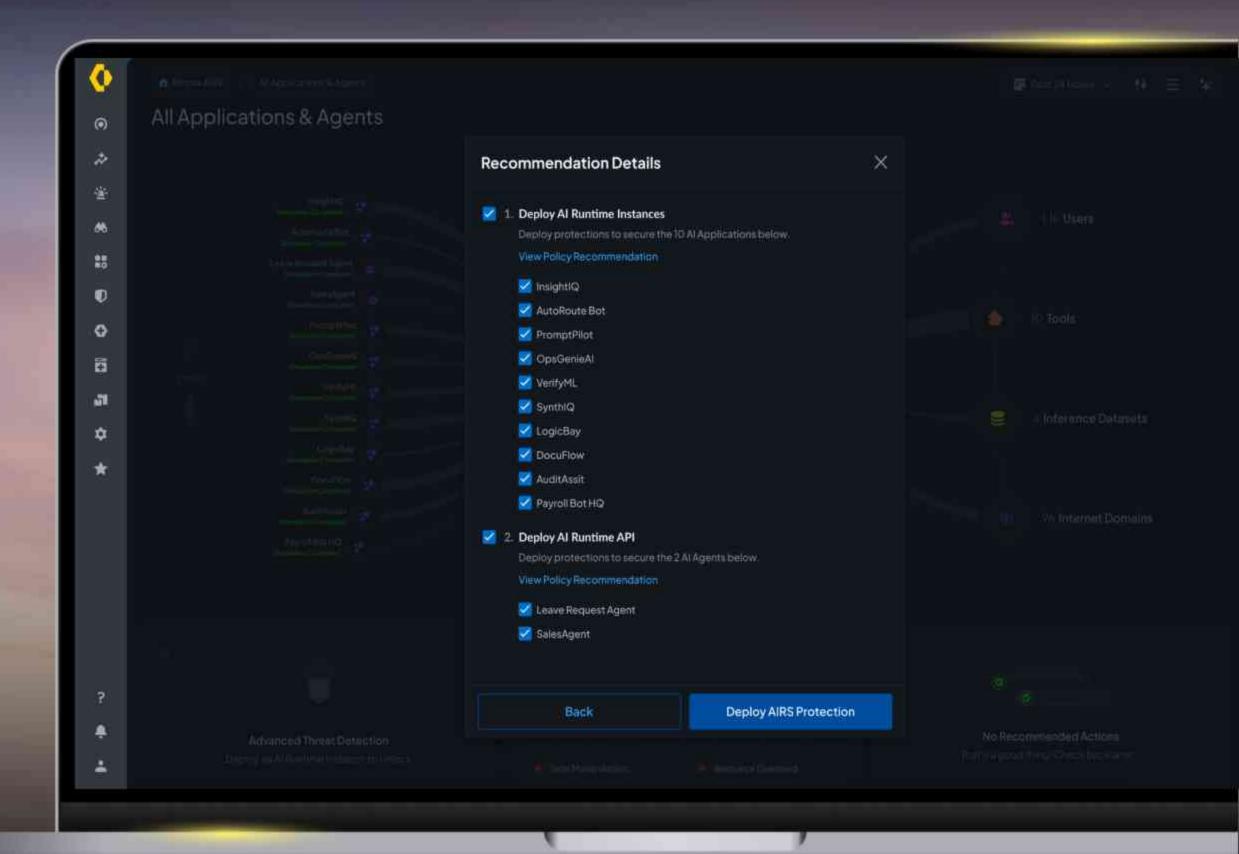
Detailed reporting

Comprehensive report detailing which attacks were successful and what sensitive information was extracted.



Policy Recommendations

Integrates with Runtime Security to provide real-time recommendations to improve Al security posture.





Runtime Security

Protect Al applications, agents, models and data at runtime.

Runtime Security Network or Code

Expand your virtual network protection to include Al security.

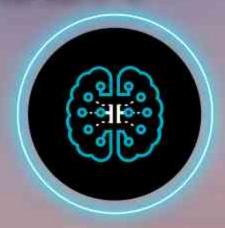




Use one or both approaches.

Configure policies once and apply consistently.

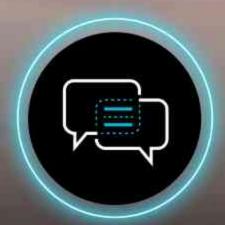
Granular Al Security for Developers via REST API or SDK



Secure any public or private model.



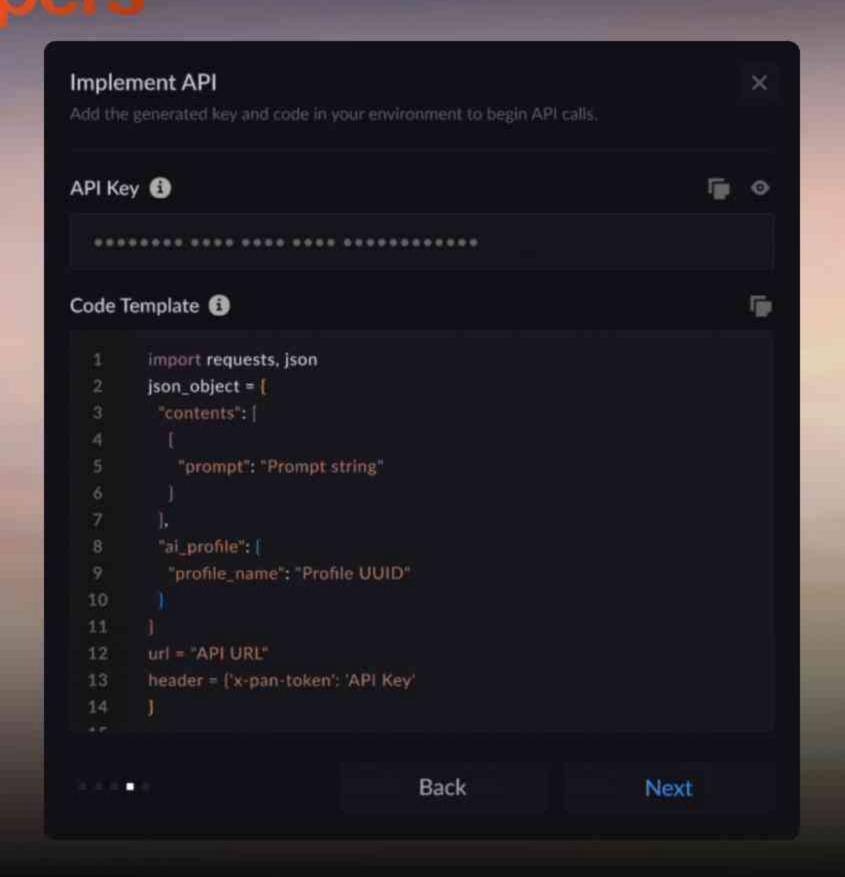
Secure Al agents in no-code, low-code and pro-code environments.



Return custom error responses based on detected threats.



Scan batched training data for threats and poisoning before fine-tuning.



Your Al Agents Can









Remember

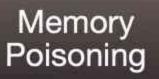
Plan

Learn

Act

Stop Al-Agent Specific Attacks







Tool Misuse



Identity Impersonation



Google AgentSpace



Azure Al Agent Service



Salesforce AgentForce



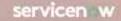
Sierra



Microsoft Copilot Studio



Agent System of Records



servicen w ServiceNow



crew ai



LangChain



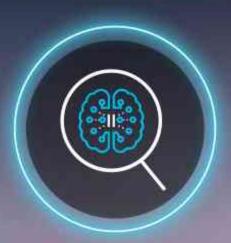
Agent Builder



Microsoft AutoGen



ANIA AIDINA



Safeguarding Your Al Apps and Agents



Prevent exposure to harmful content

Detect and block harmful or toxic content in prompts and responses.



Keep your AI focused on your business

Create custom topic guardrails to define topics that your apps and agents should or should not discuss.



Stop your AI from hallucinating

Detect outputs that deviate from application knowledge source.

Superior Runtime with Parottection Networkscion with the highest efficacy and lowest false positive rates



Al Model Protection

Secure any application and any model

25+ types of promptinjections protected across8 different languages

< 0.1% false-positive rate



Al Data Protection

1.000+ predefined data patterns

2x greater coverage

than other cloud-based data security solution

Infer and recommend

Al data protection policies, based on training dataset



Al Application Protection

40% better protection from webbased attacks and protection from 25+ DNS attack types

99.58% malware detection accuracy with 26% more detection than traditional sandboxes

Al-powered prevention of 90%+ of zero-day app command and SQL injection attacks



Al Agent Protection

Protect Al agents in no-code, low-code and procode environments

Block Al agent-specific threats, such as memory manipulation, tool misuse, hallucination attacks

Custom topic guardrails and harmful/toxic content detection

Prisma AIRS Customer Stories

Global insurance company

USE CASE

Actively building GenAl apps on AWS but also have non-Al containerized apps in production

CHALLENGE

Gain full visibility and security for containerized Al and non-Al apps

Multinational consulting firm

USE CASE

Built a chatbot for all the consultants to expedite strategy and prep work before meeting with their clients

CHALLENGE

Accelerate **safe** and **secure adoption** of their co-pilot for 10,000+ consultants

Emerging Al SaaS company

USE CASE

Built multiple in-house GenAl apps for 1,000+
employees using
several different LLMs

CHALLENGE

Secure Al-powered enterprise search and work assistants



Securing Enterprises Building Al Applications with Palo Alto Networks



Industry's most comprehensive discovery

Of the entire AI app ecosystem and risks.



Industry's only solution

To protect against supply chain, configuration and runtime risks for AI apps and models.



Vlost complete protection for all your data

Prevent threats, such as prompt injection, while protecting data throughout its lifecycle with predefined data patterns.

Securing AI with the Power of Precision AI



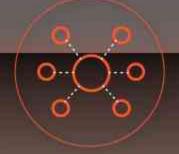
Easy discovery

Accurately and visually see your entire Al app ecosystem.



Simplicity of adoption

With a platform approach integrated across development and runtime to secure all apps.



Most comprehensive coverage

Industry's most comprehensive coverage of OWASP Top 10 LLM risks. Cover supply chain risks, configuration risks and runtime risks.



Best-in-class security

Accurately prevent threats, protect sensitive data throughout its entire lifecycle, and enable real-time threat prevention with runtime data loss protection.

How to Get Started with Prisma AIRS

Completely free, no-risk enterprise Al app ecosystem **discovery** of app workloads, models, datasets, plugins and users.

Gain visibility into runtime risk exposure of your Al apps.



Learn more about our capabilities.





Get started with a guided demo or free trial.





Appendix /// paloalto © 2025 Palo Alto Networks, Inc. All rights reserved. Proprietary and confidential information.

Secure Al by Design personalized Demo

See firsthand how to discover, protect and monitor your Al usage and apps.

Sign up for one-on-one demos:



Free demo

Al Access Security



Free demo

Prisma AIRS



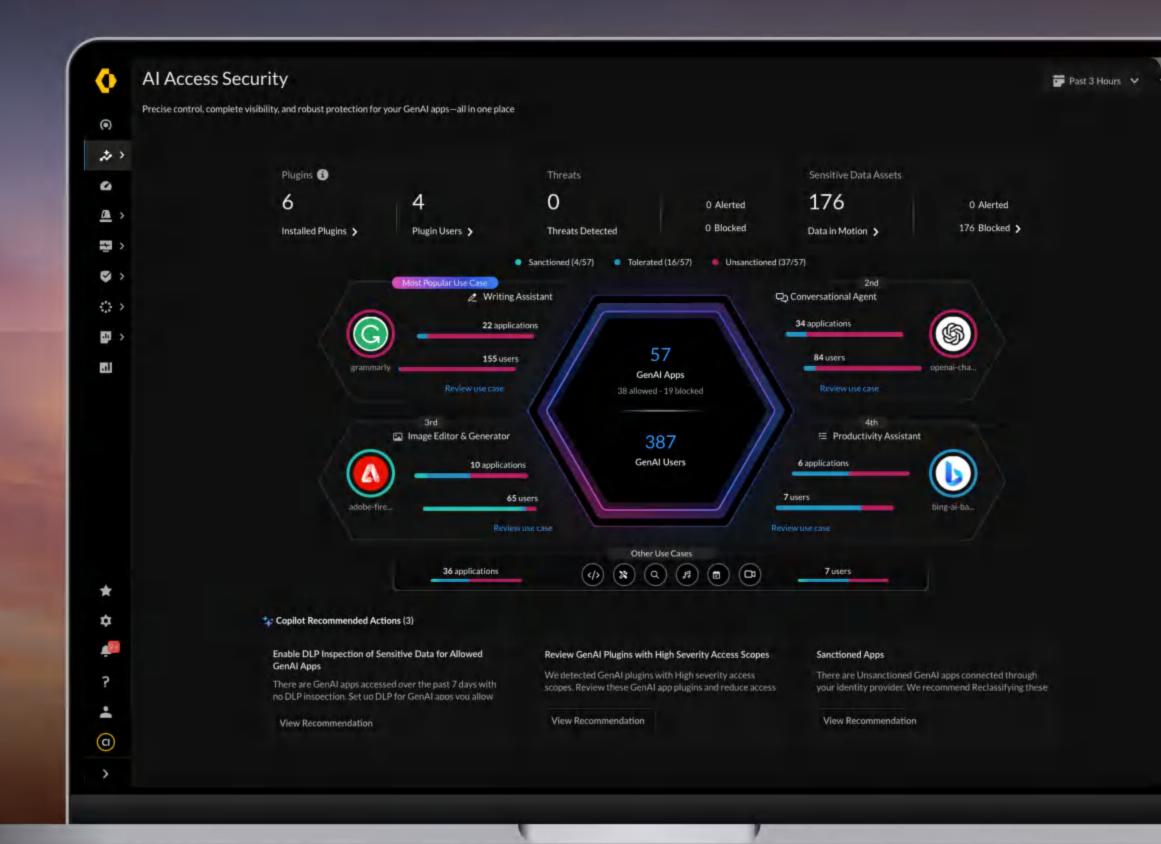


Ultimate Test Drive

Experience for yourself our Al solutions from your home or office.

Get behind the driver's seat to experience a virtual, no-cost, hands-on workshop that's designed for every experience level.







Demo Time

How to Secure GenAl Apps

Prisma AIRS Runtime Security





