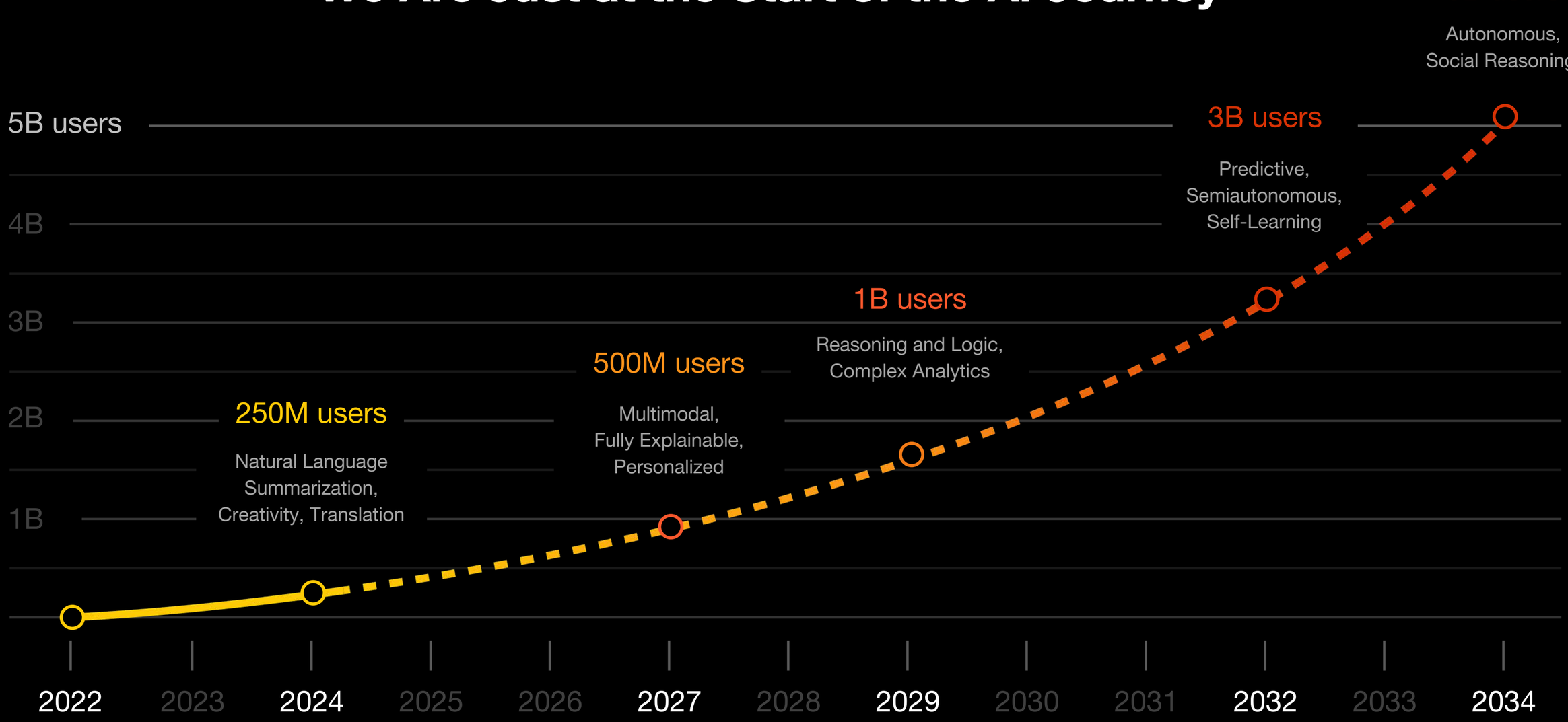
Future of AI and Cyber Security

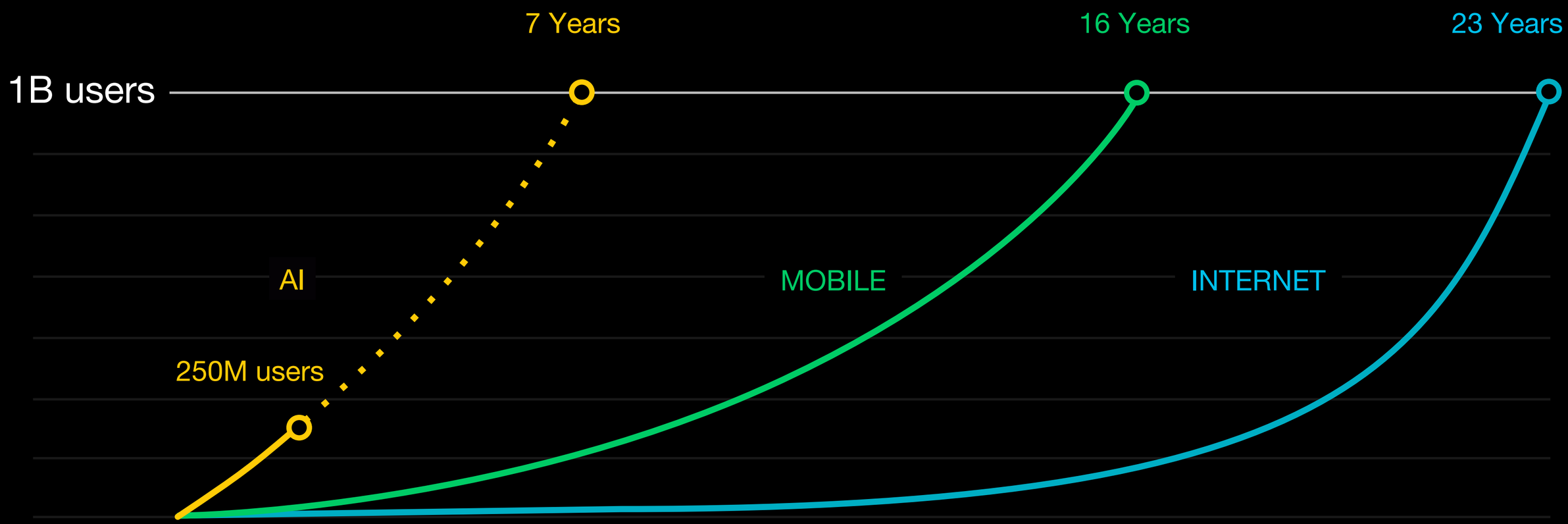
Luboš Klokner

Systems Engineer | Palo Alto Networks

We Are Just at the Start of the AI Journey



AI Is Already the Fastest-Growing Technology in Our History



Source: Internet World Stats, assumed internet inception in 1982 after US DoD standardized TCP/IP protocol

Cybersecurity Has Seen Progress Toward Autonomous Security

Signature-Based Attack Prevention

IDS → IPS

ML-Based Prevention

AV → EDR

Preprogrammed Workflow Automation

RPA → SOAR

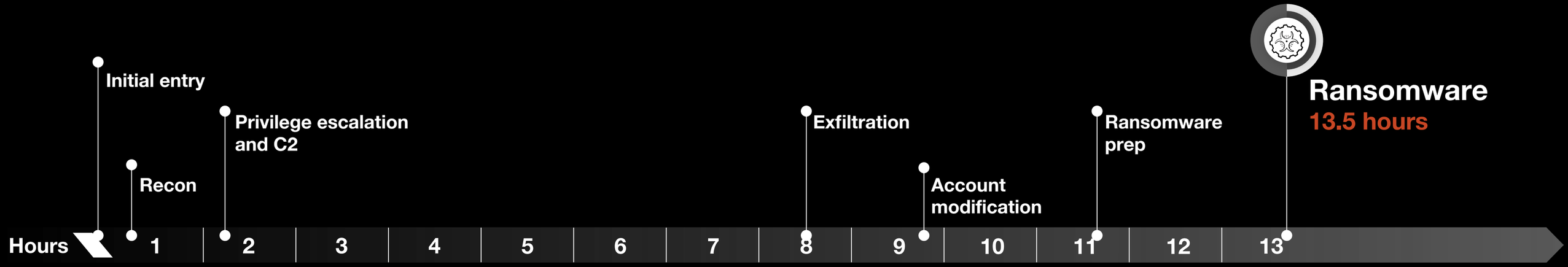
Automated Analytics

Dashboards → AIOps

Yet Being a Security Practitioner Is Still Too Complicated

AI Will Significantly Accelerate and Scale Ransomware Attacks

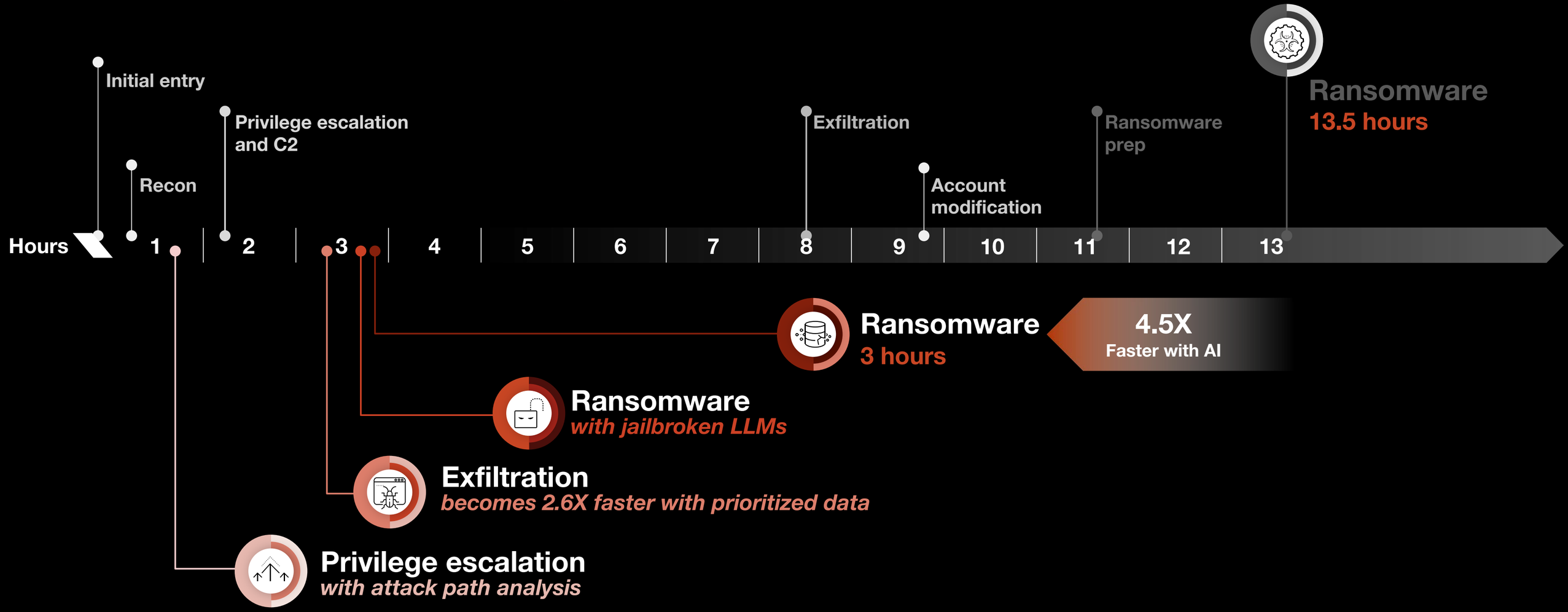
Unit 42 Casefile: What if Black Basta Attack Leveraged AI?



https://www.paloaltonetworks.com/content/dam/pan/en_US/assets/pdf/reports/2024-unit42-incident-response-report.pdf

AI Will Significantly Accelerate and Scale Ransomware Attacks

Unit 42 Casefile: What if Black Basta Attack Leveraged AI?

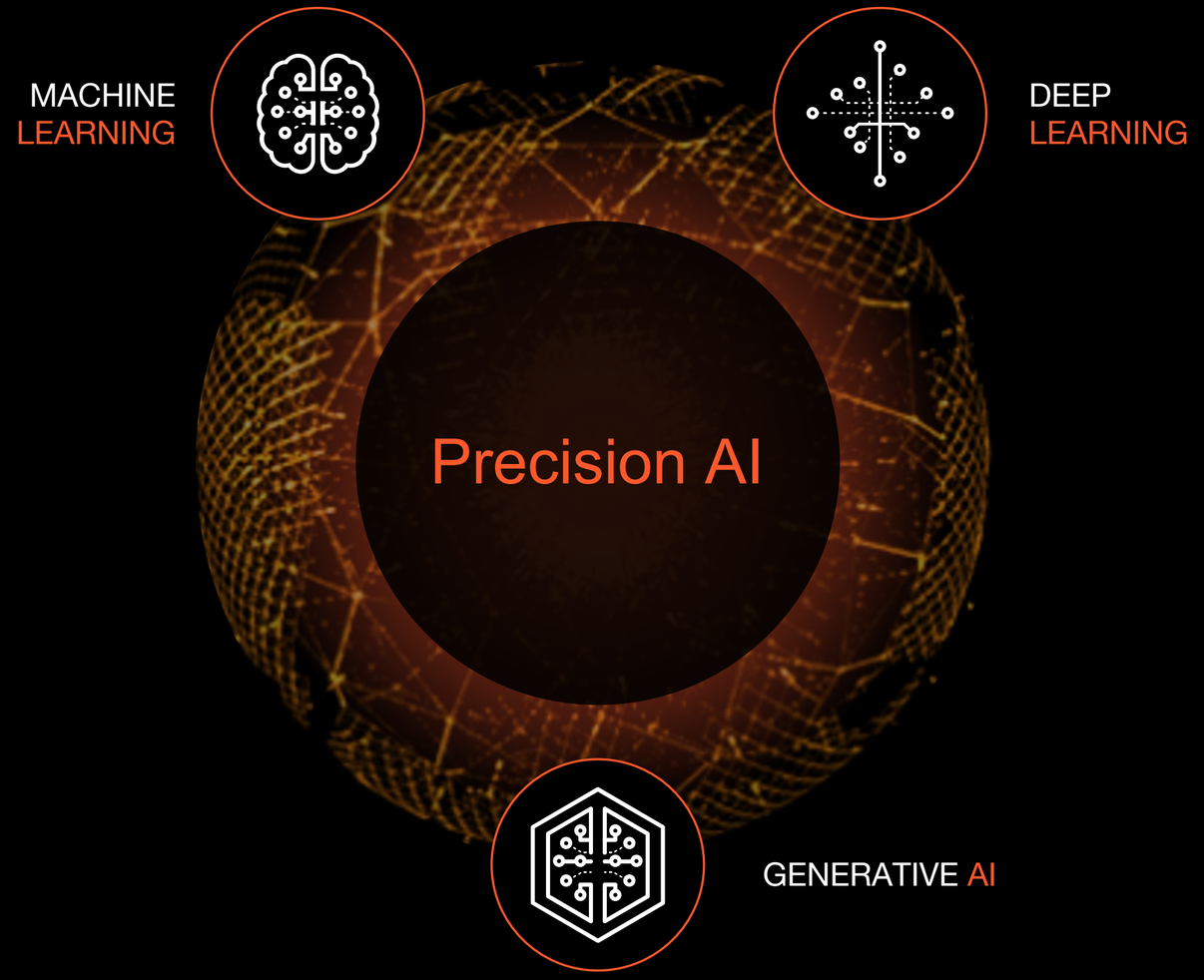


https://www.paloaltonetworks.com/content/dam/pan/en_US/assets/pdf/reports/2024-unit42-incident-response-report.pdf

Precision AI™

Is How We Counter Adversarial AI

Leveraging the best of AI; avoiding the limitations



Precision AI | We're Ready for the AI Fight

STRATA™

ZERO TRUST PLATFORM

Inspect connections and block attacks with Precision AI

- ADV TP
- ADV URL
- ADV WF
- ADV DNS
- DLP
- GP
- NG CASB
- IoT

PRISMA® CLOUD

CODE TO CLOUD PLATFORM

Identify and remediate cloud security issues at scale with Precision AI

- CSPM
- CIEM
- VM-Series
- DPSM
- CWP
- WAAS

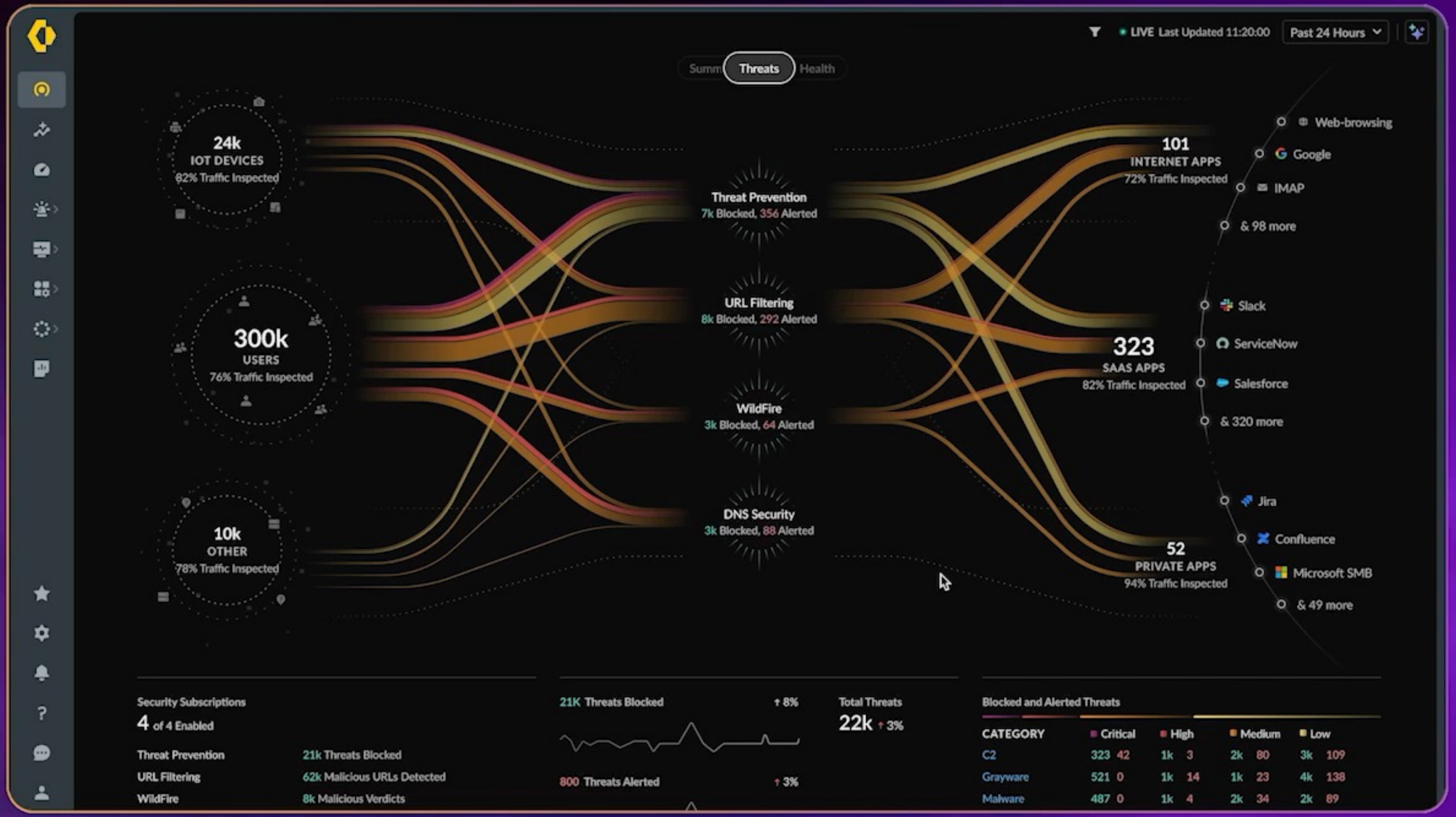
CORTEX®

AI-DRIVEN SOC PLATFORM

Real-time detection, investigation, and remediation with Precision AI

- SIEM
- EDR
- SOAR
- NTA
- ASM
- ITDR
- TIM
- CDR

paloalto NETWORKS


LIVE Last Updated 11:20:00
Past 24 Hours
Summ
Threats
Health
24k
IOT DEVICES
82% Traffic Inspected
300k
USERS
76% Traffic Inspected
10k
OTHER
78% Traffic Inspected
Threat Prevention
7k Blocked, 356 Alerted
URL Filtering
8k Blocked, 292 Alerted
WildFire
3k Blocked, 64 Alerted
DNS Security
3k Blocked, 88 Alerted
101
INTERNET APPS
72% Traffic Inspected
323
SAAS APPS
82% Traffic Inspected
52
PRIVATE APPS
94% Traffic Inspected
Web-browsing
Google
IMAP
& 98 more
Slack
ServiceNow
Salesforce
& 320 more
Jira
Confluence
Microsoft SMB
& 49 more
Security Subscriptions
4 of 4 Enabled
Threat Prevention
21k Threats Blocked
URL Filtering
62k Malicious URLs Detected
WildFire
8k Malicious Verdicts
21K Threats Blocked
↑ 8%
800 Threats Alerted
↑ 3%
Total Threats
22k ↑ 3%
Blocked and Alerted Threats
CATEGORY
Critical
High
Medium
Low
C2
323 42
1k 3
2k 80
3k 109
Grayware
521 0
1k 14
1k 23
4k 138
Malware
487 0
1k 4
2k 34
2k 89

Precision AI | We're Ready for the AI Fight

STRATA™

ZERO TRUST PLATFORM

Inspect connections and block attacks with Precision AI

- ADV TP
- ADV URL
- ADV WF
- ADV DNS
- DLP
- GP
- NG CASB
- IoT

PRISMA® CLOUD

CODE TO CLOUD PLATFORM

Identify and remediate cloud security issues at scale with Precision AI

- CSPM
- CIEM
- VM-Series
- DPSM
- CWP
- WAAS

CORTEX®

AI-DRIVEN SOC PLATFORM

Real-time detection, investigation, and remediation with Precision AI

- SIEM
- EDR
- SOAR
- NTA
- ASM
- ITDR
- TIM
- CDR

paloalto® NETWORKS

Thank You

paloaltonetworks.com