

SUMMIT

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SEC208-S

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Securing applications from code to cloud with Prisma Cloud

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Palo Alto Networks

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WWPS Partner Solutions Architect
AWS

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Agenda

Understanding challenges in cloud security

Application protection from code to cloud

Leadership in cloud and application security

Application protection platform and AWS

Customer transformations and use cases

Resources to learn more

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Palo Alto Networks next-gen platforms

TRUSTED AWS PARTNER ENABLING SAFE BUSINESS TRANSFORMATIONS

Network security

STRATA | PRISMA SASE

Best-in-class security delivered across hardware, software, and SASE

Cloud security

PRISMA CLOUD

Comprehensive platform to secure virtually everything in the cloud

Security operations

CORTEX

New approach to SOC with fully integrated data, analytics, and automation

Threat intelligence and advisory services

UNIT 42

World-renowned threat intelligence, cyber risk management, and advisory services

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Understanding challenges in cloud security

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Challenges when securing cloud-native applications

KEEPING PACE WITH RAPIDLY ACCELERATING CLOUD INNOVATION



Emerging innovative architectures

Cloud services are driving **app modernization** & new architectures



DevOps driving constant change

Cloud services are **dynamic**, often quickly ramped up & down by business owners



Security may be forgotten

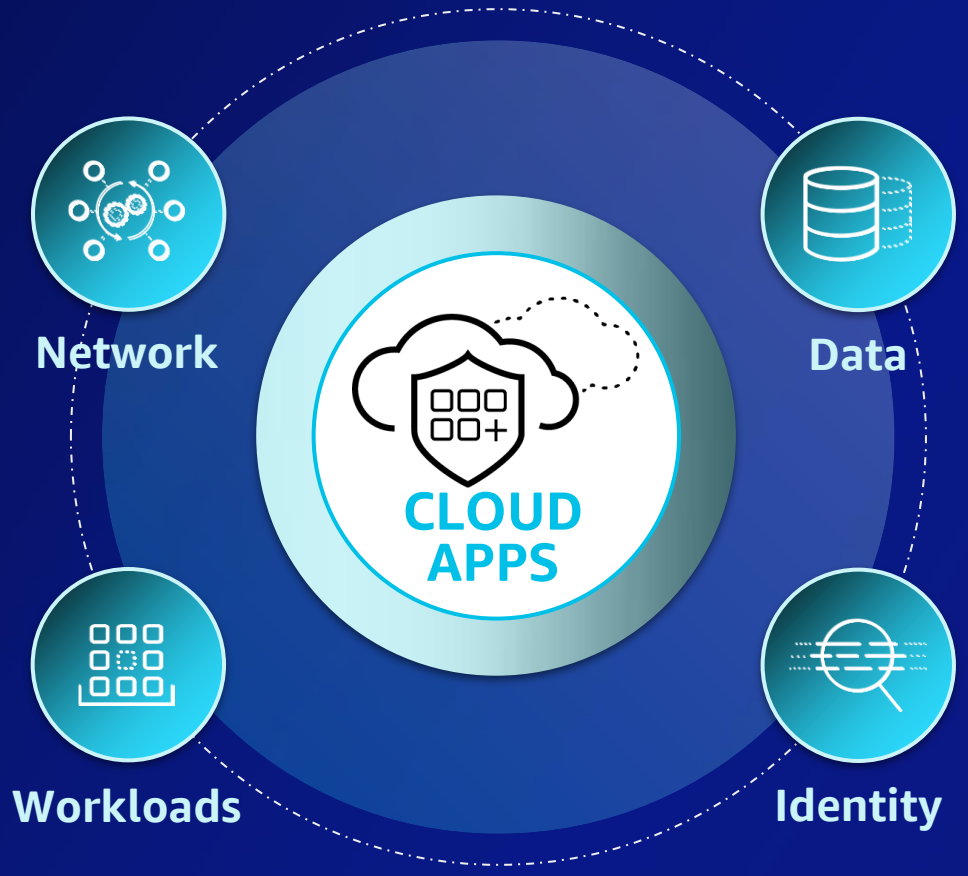
Security may become an **afterthought** in the rapid pace of cloud innovation

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Applications drive business transformation

ACCELERATE CLOUD WITH SHIFT-LEFT APPLICATION PROTECTION



- DevOps outnumber security teams by a 10:1 margin
- Shift-left prevention creates outsized security & operations improvements
- Effectively prioritize runtime risk with earlier lifecycle context

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Modernize to secure your cloud applications

FROM POINT PRODUCTS TO CONSOLIDATED CODE-TO-CLOUD CNAPP

POINT PRODUCTS	CLOUD-NATIVE APPLICATION PROTECTION PLATFORM (CNAPP)
Runtime security focus	**Comprehensive security from code to cloud**
Infrequent scans	**Continuous, real-time visibility**
Visibility (but no prevention)	**Prevention-first approach**
Tool proliferation complexity	**Platform with choice for every journey**
Secure cloud scale issues	**Secure cloud scale**

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Application protection from code to cloud

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PRISMA CLOUD



CODE TO CLOUD



CONTINUOUS VISIBILITY



PREVENTION FIRST



SECURITY CHOICE



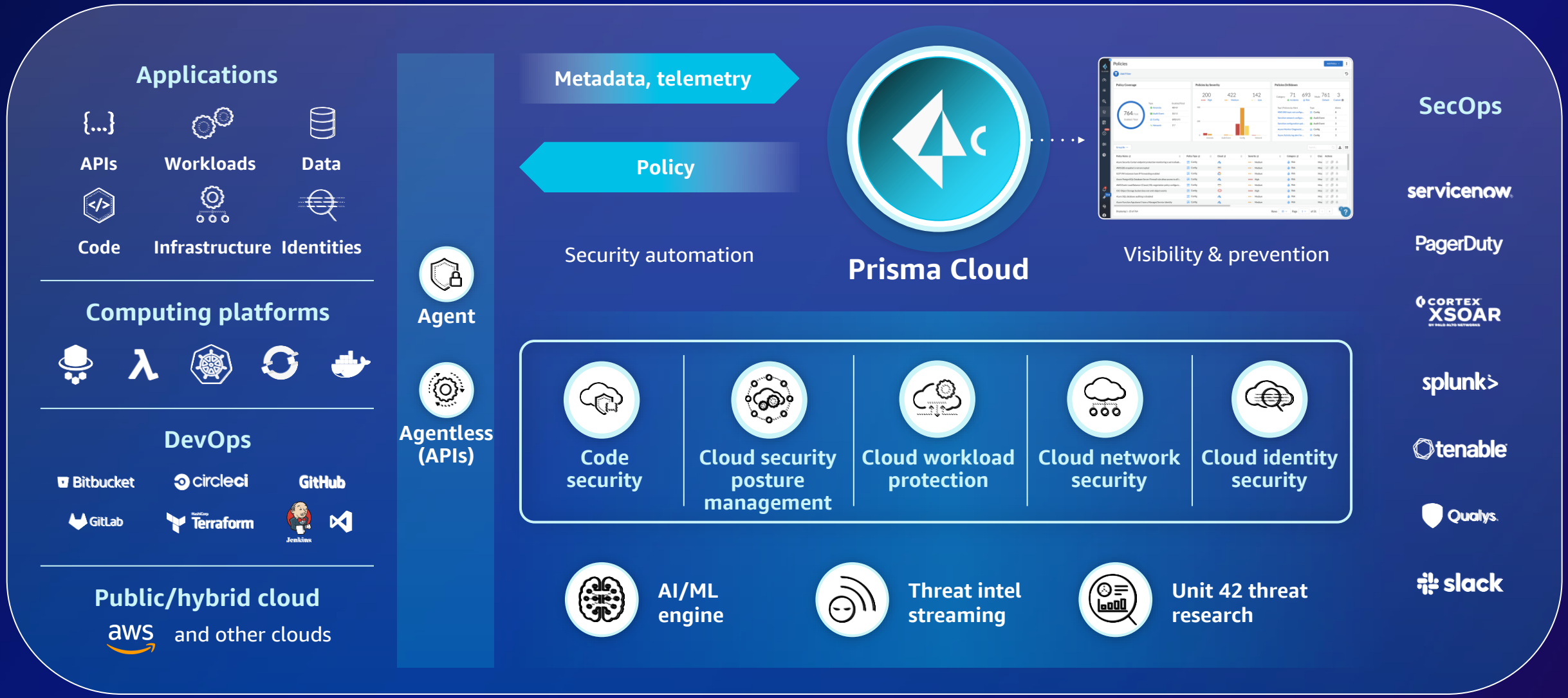
SECURITY AT SCALE

Cloud-native application protection platform (CNAPP)

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Prisma Cloud architecture



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Prisma Cloud secures your code and applications

CODE-TO-CLOUD CONSOLIDATION, PREVENTION & PROTECTION

CODE & APPLICATION RISK	PRISMA® CLOUD BY PALO ALTO NETWORKS
Vulnerable code, dependencies, licensing	**Software composition analysis + software bill of materials**
Manual infrastructure provisioning & drift	**Infrastructure as code + drift detection**
Poisoned supply chains	**Supply chain + CI/CD security**
Publicly accessible code repositories	**Hardened code repository configurations**
Exposed secrets	**Secrets scanning**

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Prisma Cloud secures your deployments

CODE-TO-CLOUD CONSOLIDATION, PREVENTION & PROTECTION

DEPLOYMENT RISK	PRISMA® CLOUD BY PALO ALTO NETWORKS
Insecure CI/CD workflows	**Cloud workload protection + hardened CI/CD workflows**
Privileged containers	**Container access control**
Vulnerabilities & compliance violations	**Sandbox analysis + registry scanning + trusted images**

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Prisma Cloud secures your cloud

CODE-TO-CLOUD CONSOLIDATION, PREVENTION & PROTECTION

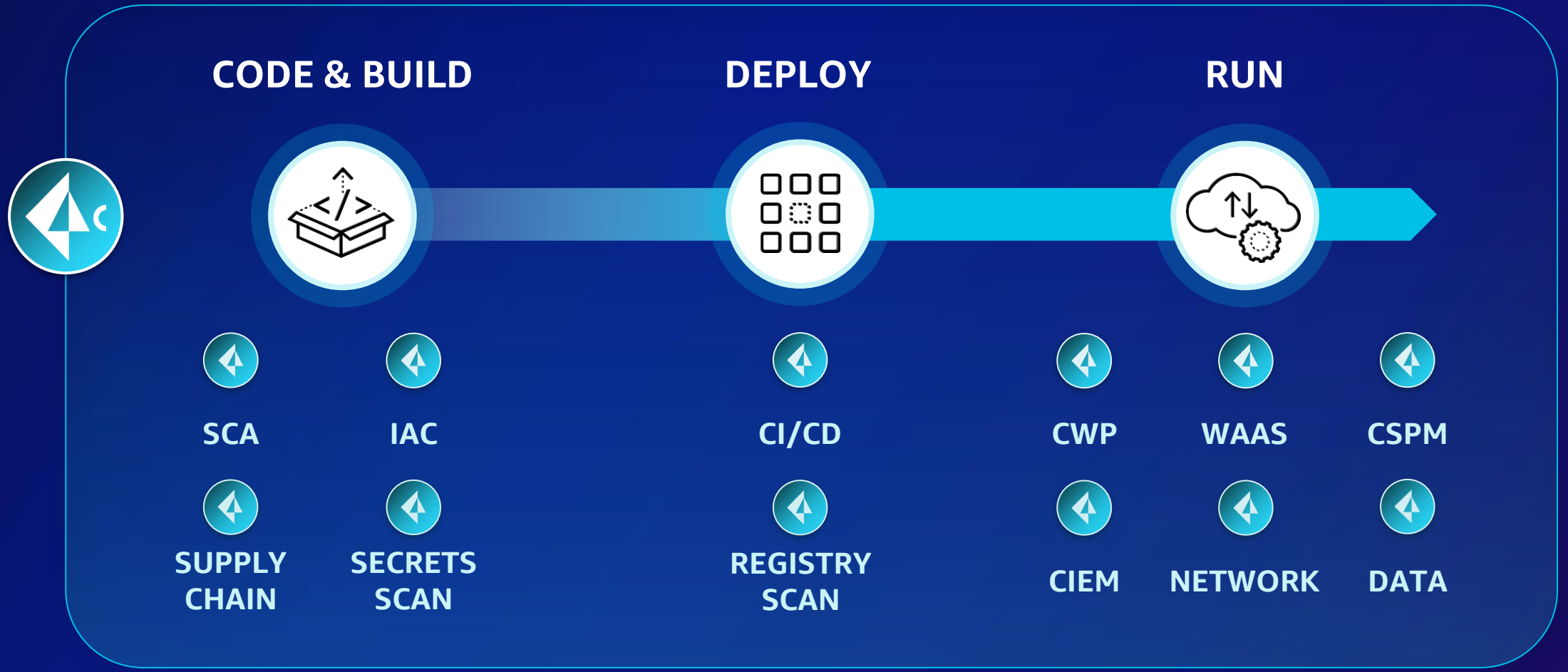
CLOUD RUNTIME RISK	PRISMA® CLOUD BY PALO ALTO NETWORKS
Misconfigurations & compliance violations	**Cloud security posture management**
Web events & vulnerabilities	**Web application & API security + runtime defense**
Malware & suspicious behavior	**Threat & anomaly detection**
Overly permissive access	**Identity access management + cloud infrastructure entitlement management**
Data & network exposure, lateral movement	**Data & network security + network microsegmentation**

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Prisma Cloud secures from code to cloud

FULL LIFECYCLE CONSOLIDATION, PREVENTION & PROTECTION



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Leadership in cloud and application security

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Prisma Cloud has benefits, leadership, and scale

CUSTOMER BENEFITS*

Simpler

60% reduction in DevOps effort to fix vulnerabilities and misconfigurations

Safer

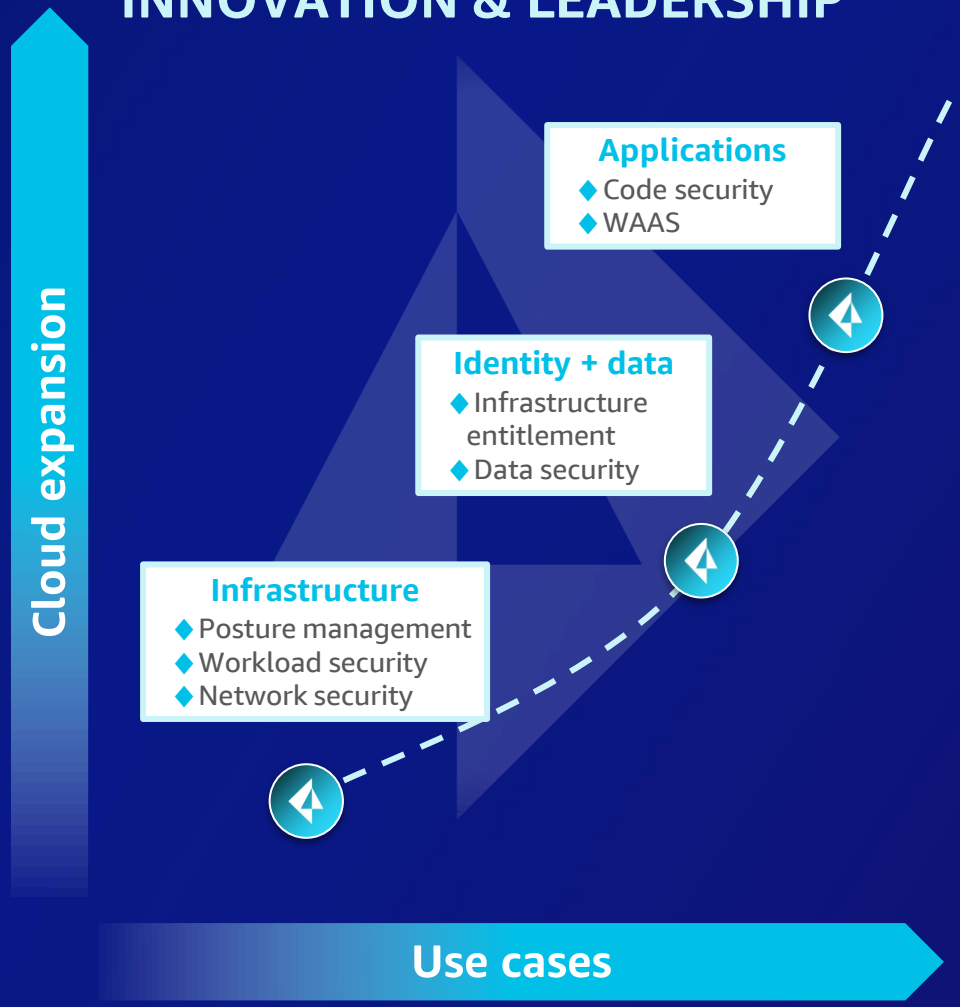
27% reduction in likelihood of material data breaches

Faster

90% reduction in time to create, review, and consume compliance reporting

*Forrester: The Total Economic Impact of Palo Alto Networks Prisma Cloud

INNOVATION & LEADERSHIP



ENTERPRISE SCALE

22K+ secrets detected in code repositories monthly

1.5M container images scanned monthly

7B+ assets protected

- **200+** customers **>1M** assets
- **30** customers **>10M**
- **2** customers **>50M**

~1T events processed daily for threat detection

1,900+ customers protected globally

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Prisma Cloud is a leader in cloud security

RECOGNITION THAT VALIDATES OUR LEADER POSITION

CWP
LEADER
Cloud Workload Security Wave
FORRESTER

CNAPP
LEADER
Global CNAPP Radar
FROST & SULLIVAN

DevSecOps
LEADER
Developer Security Tools Radar
GIGAOM

Code security
LEADER
Policy as Code Radar
GIGAOM

Vulnerability management
LEADER
Vulnerability Management Radar
GIGAOM

CSPM
LEADER
CSPM Radar
GIGAOM

"Best tool in the market."

★★★★★ **5 stars out of 5** Full review

"**Seamless integration with AWS, super easy setup**, ability to enforce policies both on block and detection, easy to integrate with ticketing systems (SNOW, JIRA, etc.)."

– Director, Cyber Security And Compliance

"Mind blowing capabilities."

★★★★★ **5 stars out of 5** Full review

"From deployment to customer support and service, we have been delighted. **Feature set is endless**. By far one of the best tools."

– Analyst, IT Security and Risk Management

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Application protection platform and AWS

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Public Cloud security is a shared responsibility

PRISMA CLOUD & PALO ALTO NETWORKS ARE HERE TO SUPPORT YOU

Cloud customer



Responsible for security **in** the cloud

- PLATFORM & APPLICATIONS
- CUSTOMER DATA
- HOSTS, CONTAINERS, FUNCTIONS
- IDENTITY & ACCESS MGMT
- NETWORK TRAFFIC PROTECTION
- CONFIGURATIONS

PRISMA™ CLOUD
BY PALO ALTO NETWORKS

Cloud service provider



Responsible for security **of** the cloud

- SOFTWARE
- COMPUTE | STORAGE | DATABASE | NETWORK
- HARDWARE/GLOBAL INFRASTRUCTURE
- REGIONS | ZONES | EDGE

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Prisma Cloud and AWS build security together

SO OUR CUSTOMERS CAN GAIN RAPID AWS SERVICE AVAILABILITY

2017		AWS Fargate **launch partner**
2017		Amazon GuardDuty **launch partner**
2018		AWS Security Hub **launch partner**
2018		AWS Lambda layers **launch partner**
2021		AWS Control Tower **launch partner**
2021		Amazon Inspector **launch partner**
2022		Amazon GuardDuty Malware Protection **launch partner**
2022		Amazon Security Lake **launch partner**



Committed launch partner for AWS security offerings



Seamless integration & adoption readiness

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Cloud-native integration value with AWS

Collect, aggregate, normalize, correlate & prioritize
AWS findings & data



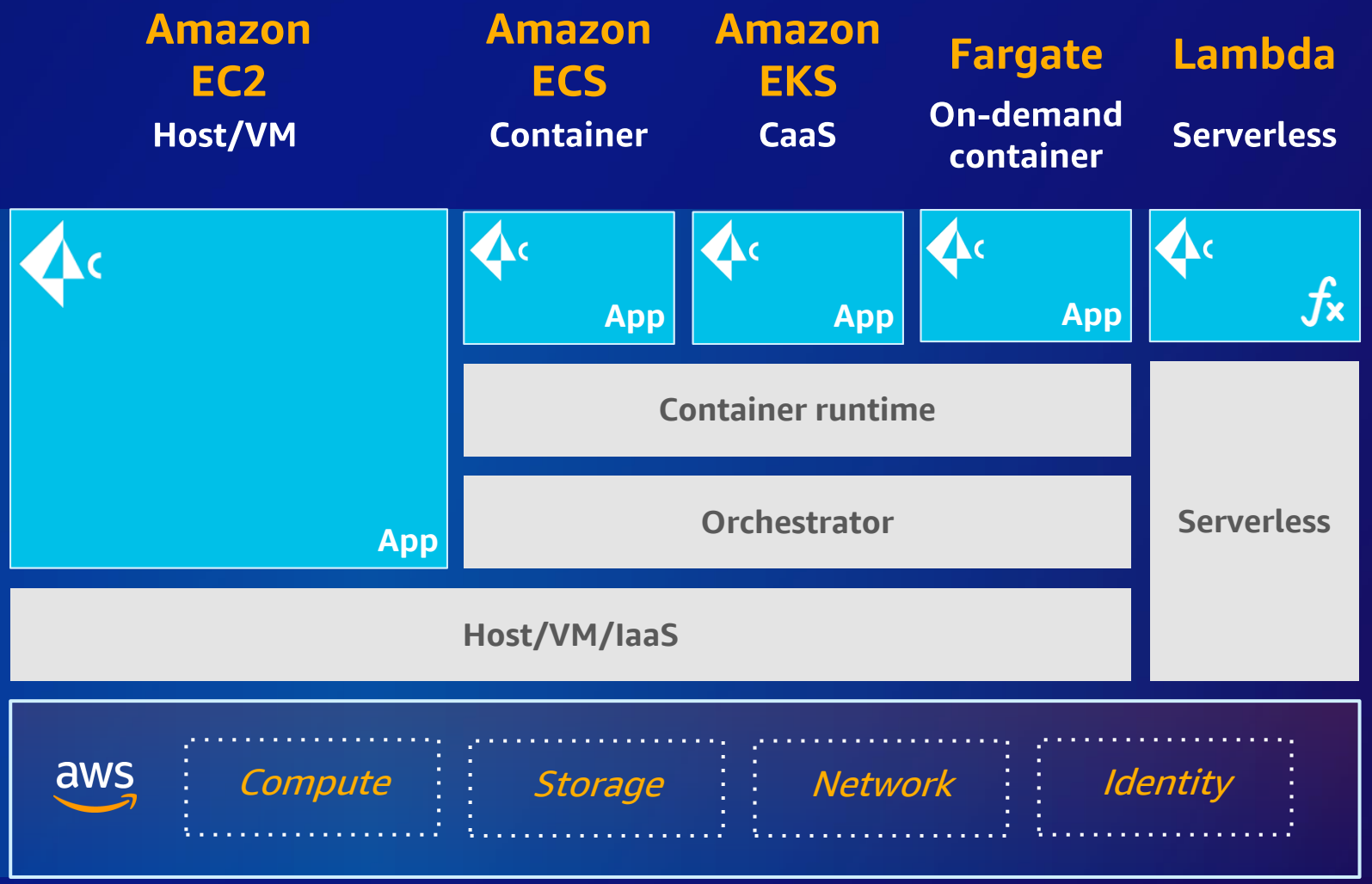
- Amazon API Gateway
- Amazon Athena
- AWS Auto Scaling
- AWS Certificate Manager (ACM)
- AWS CloudFormation
- Amazon CloudFront
- AWS CloudTrail
- Amazon CloudWatch
- AWS CodeBuild
- AWS CodePipeline
- Amazon Cognito
- AWS Config
- AWS DMS
- AWS Direct Connect
- AWS Directory Service
- Amazon DynamoDB
- Amazon EC2
- Amazon ECR
- Amazon ECS
- Amazon EKS
- Amazon EFS
- Amazon ElastiCache
- AWS Elastic Beanstalk
- Elastic Load Balancing
- Amazon EMR
- Amazon EventBridge
- FireLens for Amazon ECS
- AWS Glue
- Amazon GuardDuty
- IAM Access Analyzer
- IAM
- Amazon Inspector
- AWS KMS
- Amazon Kinesis
- AWS Lambda
- AWS Organizations
- Amazon Redshift
- Amazon RDS
- AWS RAM
- Amazon Route 53
- Amazon S3
- Amazon S3 Glacier
- AWS Security Hub
- Amazon SageMaker
- AWS Secrets Manager
- AWS Shield
- Amazon SNS
- Amazon SQS
- AWS Systems Manager
- AWS Transfer Family
- Amazon VPC
- AWS WAF
- Amazon WorkSpaces

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Full-stack workload protection

FOR COMPLETE SECURITY COVERAGE ACROSS AWS COMPUTE

- **Full-stack** compute coverage
- **Agentless** flexibility & ease
- **Agent** defense in depth



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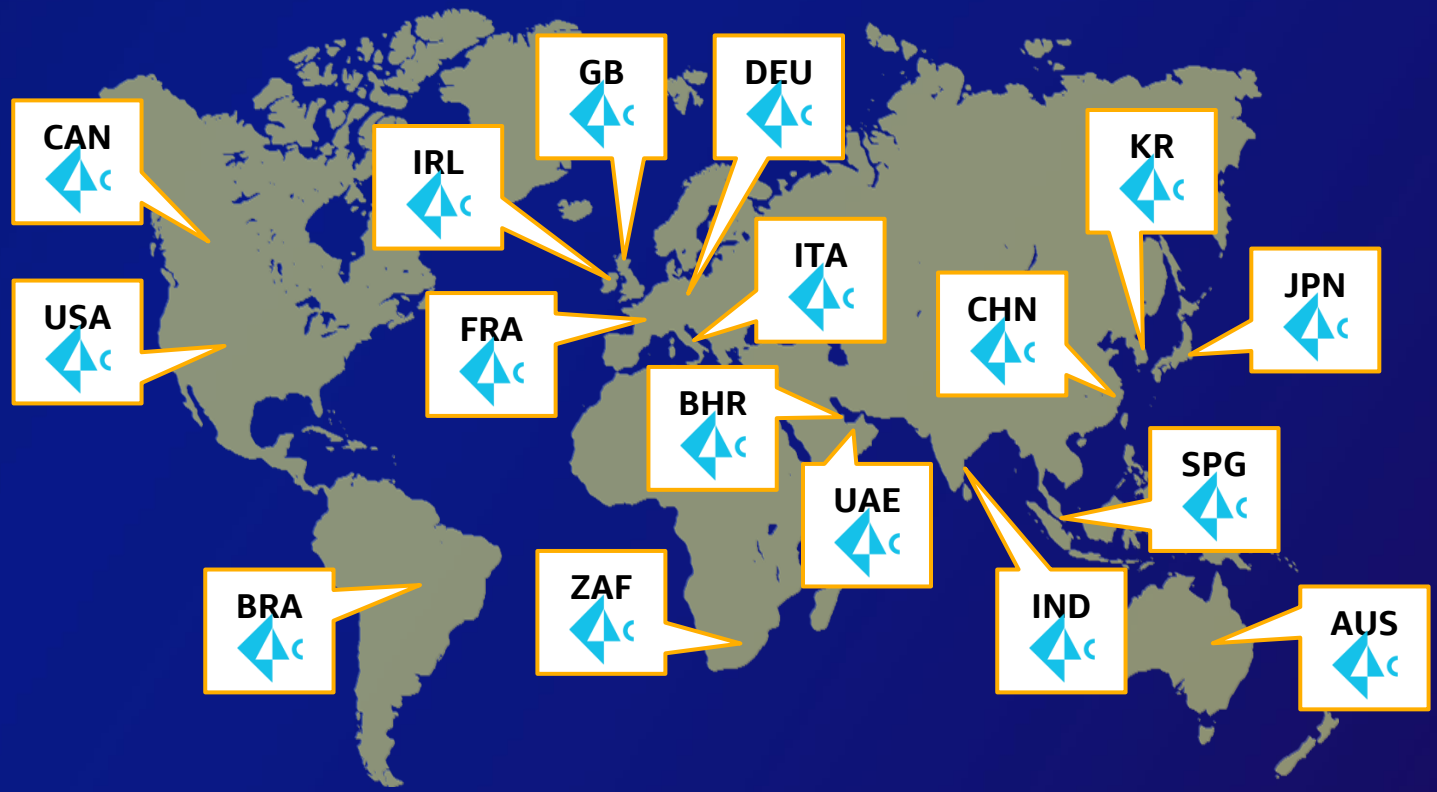
Prisma Cloud global region availability

AWS global

- US East (Ohio) – us-east-2
- US East (N. Virginia) – us-east-1
- US West (N. California) – us-west-1
- US West (Oregon) us-west-2
- Africa (Cape Town) – af-south-1
- Asia Pacific (Hong Kong) – ap-east-1
- Asia Pacific (Mumbai) – ap-south-1
- Asia Pacific (Osaka) – ap-northeast-3
- Asia Pacific (Seoul) – ap-northeast-2
- Asia Pacific (Singapore) – ap-southeast-1
- Asia Pacific (Sydney) – ap-southeast-2
- Asia Pacific (Tokyo) – ap-northeast-1
- Canada (Central) – ca-central-1
- China (Beijing) – cn-north-1
- China (Ningxia) – cn-northwest-1
- Europe (Frankfurt) – eu-central-1
- Europe (Ireland) – eu-west-1
- Europe (London) – eu-west-2
- Europe (Milan) – eu-south-1
- Europe (Paris) – eu-west-3
- Europe (Stockholm) – eu-north-1
- Middle East (Bahrain) – me-south-1
- South America (São Paulo) – sa-east-1

AWS GovCloud

- AWS GovCloud (US-East) – us-gov-east-1
- AWS GovCloud (US-West) – us-gov-west-1



Learn more

docs.paloaltonetworks.com

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Customer transformations and use cases

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Beneficial outcomes across the enterprise

SUPPORTING THE AWS CLOUD ADOPTION FRAMEWORK (AWS CAF)

Security (CISO, AppSec, IT security)

27% reduced likelihood of significant breach

- Protect cloud infrastructure, apps & workloads, networks & data

Governance (CIO, PM, business analyst)

80% reduced time configuring policies

- More than 900 pre-built policies for AWS

People (HR, people manager)

90% reduced time for compliance reporting

- Single-click auditing & compliance reporting with real time data

Platform (CTO, IT, solutions architect)

60% reduced DevOps time for vulnerabilities

- Accelerate DevSecOps continuous prevention & protection, code-to-cloud

Operations (IT operations, IT support)

44% reduced time to investigate incidents

- Automated security remediations & best-in-class threat detection

Business (business, finance, budget, strategy)

Proven 276% ROI (3 years)

- USD $5.81 million net present value & 6-month payback

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Source: Forrester Total Economic Impact of Prisma Cloud

Prisma Cloud DoD use case examples



U.S. Air Force Platform One

- **Prisma Cloud is a prominent security component** in DoD Enterprise DevSecOps (DSOP) Platform One initiative
- **Prisma Cloud images available for any DoD entity** inside the Iron Bank – DoD Centralized Artifacts Repository (DCAR)
- **Prisma Cloud secures cloud applications** for the U.S. Navy onboard NAVSEA's Cloud In a Box initiative (fully functional on-ship cloud)



JAIC (Joint Artificial Intelligence Center)

- **Prisma Cloud secures the entire DevSecOps process for JAIC** and the DoD Center of Excellence in Artificial Intellicenge & Machine (CoE-AIML), which builds AI and ML for DoD



Defense Information Systems Agency (DISA) – joint regional security stacks

- **Prisma Cloud delivers compliance, vulnerability, and malware scans** in defense container DCARS

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Prisma Cloud continuous authority to operate (cATO)

DoD cATO memo dated 2/3/2022:

"cATO represents a challenging but necessary enhancement of our cyber risk approach in order to accelerate innovation while outpacing expanding cybersecurity threats."

Authorizing official (AO) requires demonstration of 3 competencies:

1. **Ongoing visibility of key cybersecurity activities** inside of the system boundary with a robust continuous monitoring of RMF controls
2. **Ability to conduct active cyber defense** in response to cyber threats in real time
3. **Adoption** and use of an approved DevSecOps reference design



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Resources to learn more

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Learn about Prisma Cloud

SOLUTION OVERVIEW, DATA SHEET & VIDEO RESOURCES

Code-to-cloud security hour

Learn how Prisma Cloud secures from code to cloud

paloaltonetworks.com/engage/prisma-cloud-code-to-cloud-on-demand

Prisma Cloud data sheet for AWS

See our AWS capabilities & comprehensive security

paloaltonetworks.com/resources/datasheets/prisma-cloud-native-security-aws

Prisma Cloud demo videos

Explore our informative security use case demos

paloaltonetworks.com/prisma/comprehensive-cloud-native-security-demo

Code-to-cloud CNAPP video

Quickly learn the benefits of a code-to-cloud CNAPP

youtube.com/watch?v=HUx80QF6Zys

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Get hands-on with Prisma Cloud

PRACTITIONER TRIALS, WORKSHOPS & TECHNICAL RESOURCES

Prisma Cloud free trial

Start securing your cloud-native applications today

paloaltonetworks.com/prisma/request-a-prisma-cloud-trial

Cloud security bootcamps

Interactive & hands-on workshops to gain skills

paloaltonetworks.com/prisma/cloud-interactive

Free cloud risk assessment

Discover vulnerabilities in your cloud environment

start.paloaltonetworks.com/cloud-security-risk-assessment.html

LIVE community

Find security answers & solutions with technical peers

live.paloaltonetworks.com

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Palo Alto Networks next-gen platforms

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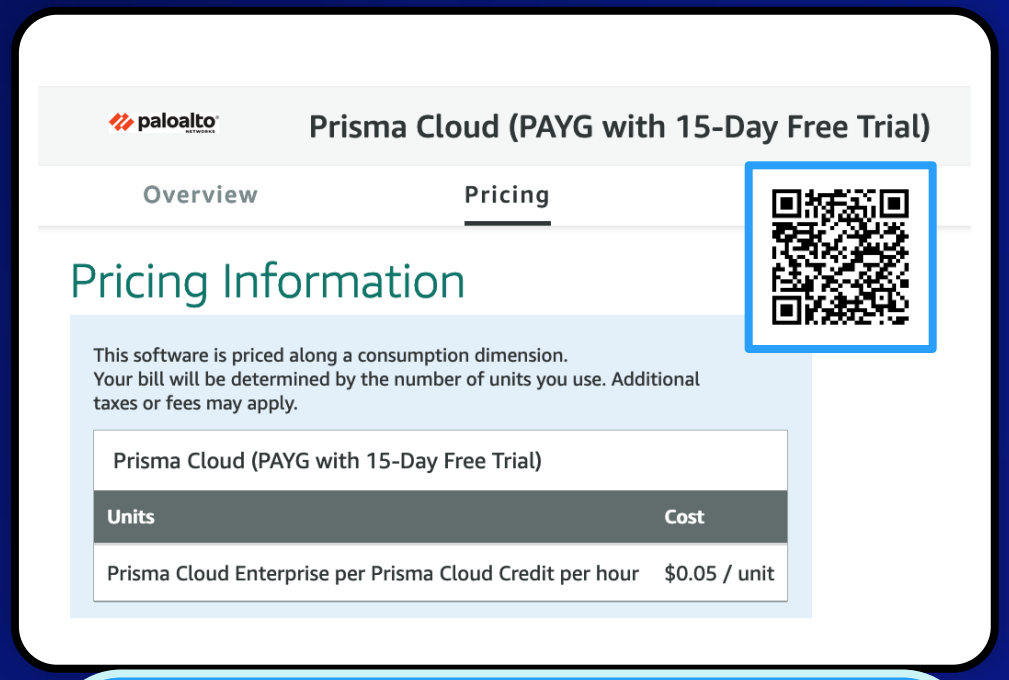
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Flexible SaaS buying with AWS Marketplace

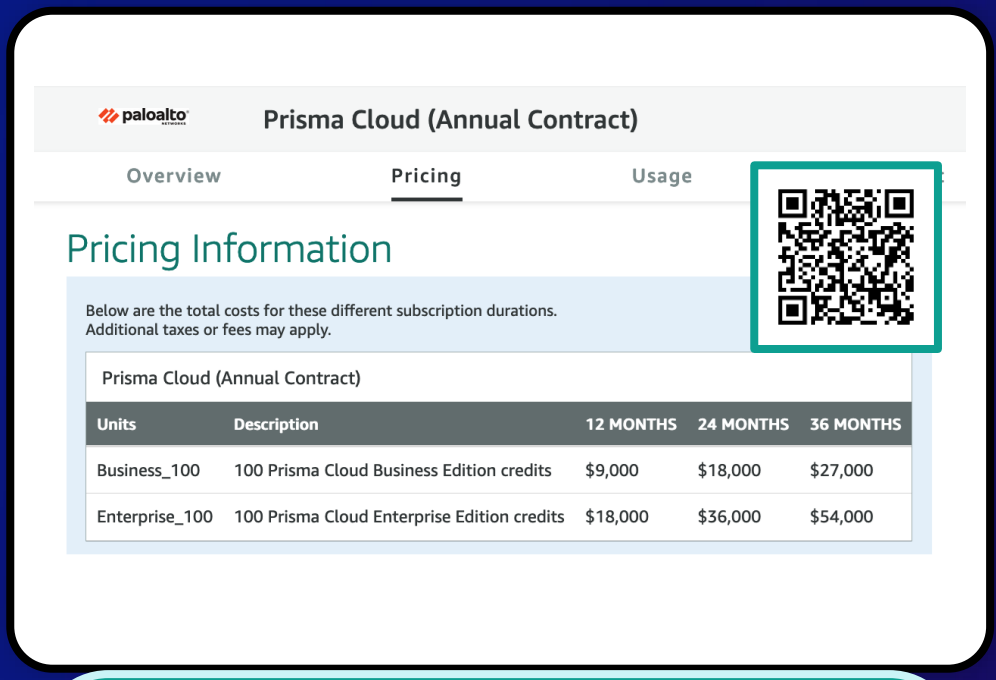
TRY ON-DEMAND OR GET PRIVATE OFFERS TO SAVE MONEY

1 SaaS subscription (pay as you go)



Get started here!
15-day free trial & pay-as-you-go pricing

2 SaaS contract (cloud credits)



Save money!
Discounts with annual commitments

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Network security on AWS Marketplace

TRY VM-SERIES VIRTUAL NEXT–GENERATION FIREWALLS OR CLOUD NGFW

1 SaaS subscription (pay as you go)

VM-Series Virtual NextGen Firewall w/ 5 Core Security Subs

By: Palo Alto Networks Latest Version: PAN-OS 10.1.9

Free trial | Vendor Insights

The VM-Series Next Generation Firewall (NGFW) gives security teams complete visibility and control over all networks using powerful traffic identification, malware prevention, and threat intelligence technologies.

VM-series – get started here!
15-day free trial & pay-as-you-go pricing

2 SaaS subscription (pay as you go)

Cloud Next-Generation Firewall (PAYG with 15-Day Free Trial)

Sold by: Palo Alto Networks Inc.

Free trial | Vendor Insights

Fully managed, cloud-native firewall service with threat prevention, app control and advanced URL filtering that integrates with AWS Firewall Manager, CloudWatch and more.

Cloud NGFW – get started here!
15-day free trial & pay-as-you-go pricing

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