
AWS
re:Invent
NOV. 28 – DEC. 2, 2022 | LAS VEGAS, NV

PRT240

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Prepare for the unexpected with code-to-cloud security

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Welcome Everyone



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Prisma Cloud



Sam Rubin, VP Security Consulting

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Palo Alto Networks Next-Gen Platforms Enable 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 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

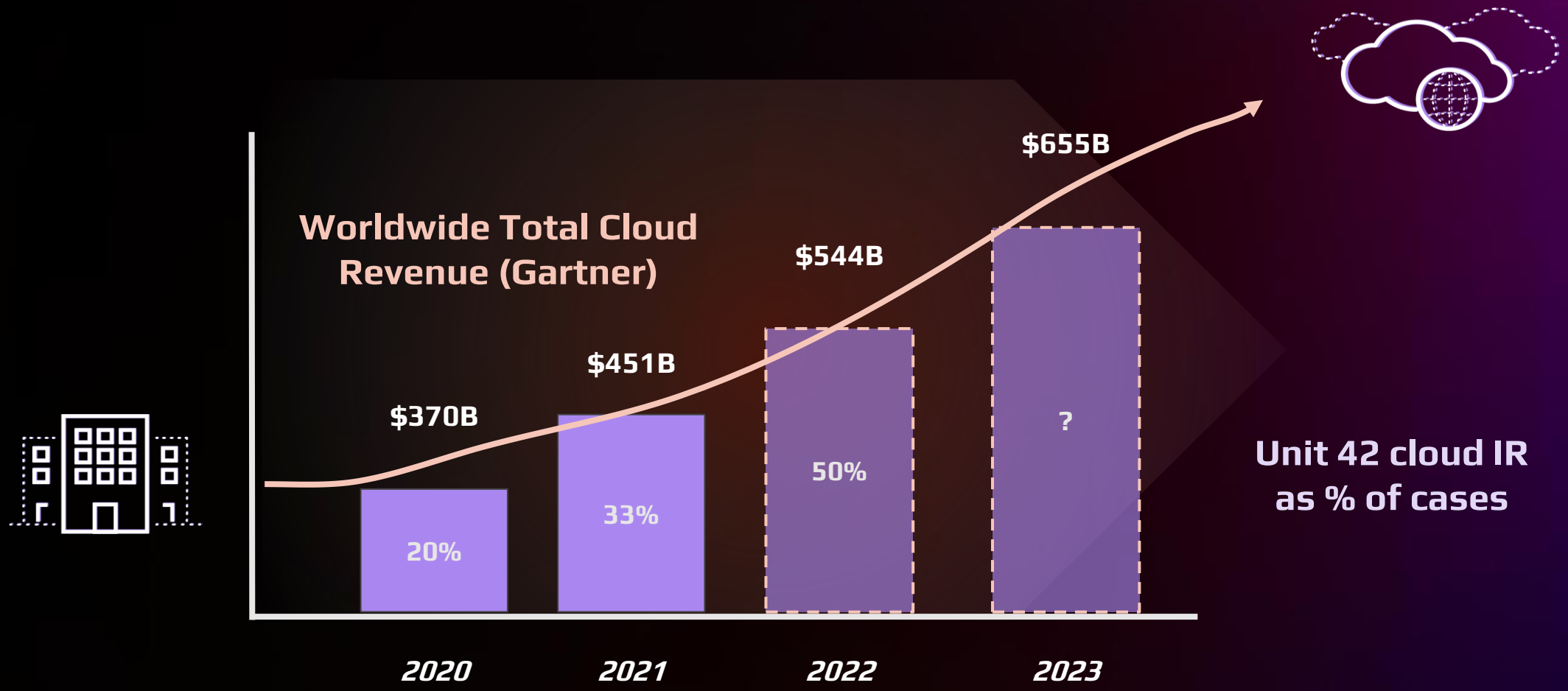
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Modern app security risks: Unit 42 threat research

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Cloud Is the New Cyber Battlefield



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Gartner: More Than Half of Enterprise IT Spending in Key Market Segments Will Shift to the Cloud by 2025

With great power…



Misconfigurations

Over-privileged IAM

Exposed credentials

App & API vulnerabilities

Data exposure & exfiltration

Ransomware and extortion

Data destruction

Cryptojacking

…comes great responsibility

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" Threat actor **did not modify our source code repository**. The **malicious activity occurred within the automated build environment** for our Orion Platform software. "

– Sudhakar Ramakrishna, CEO, SolarWinds

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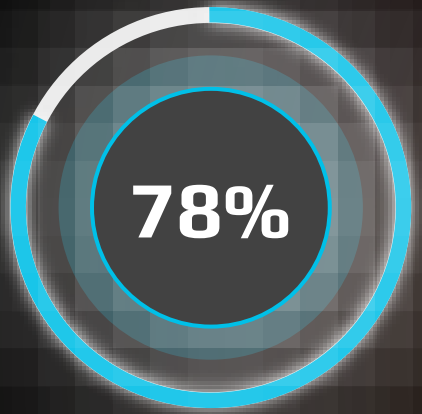
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The beauty of open-source tools is that anyone can use the code...

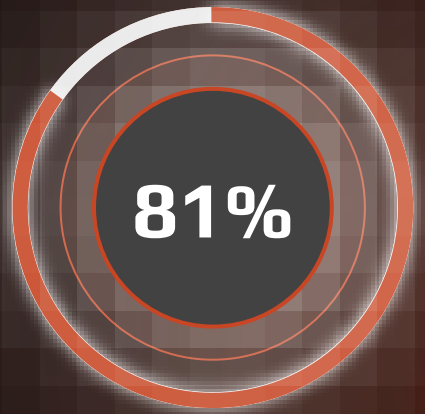
> but no one is obligated to maintain or secure it.

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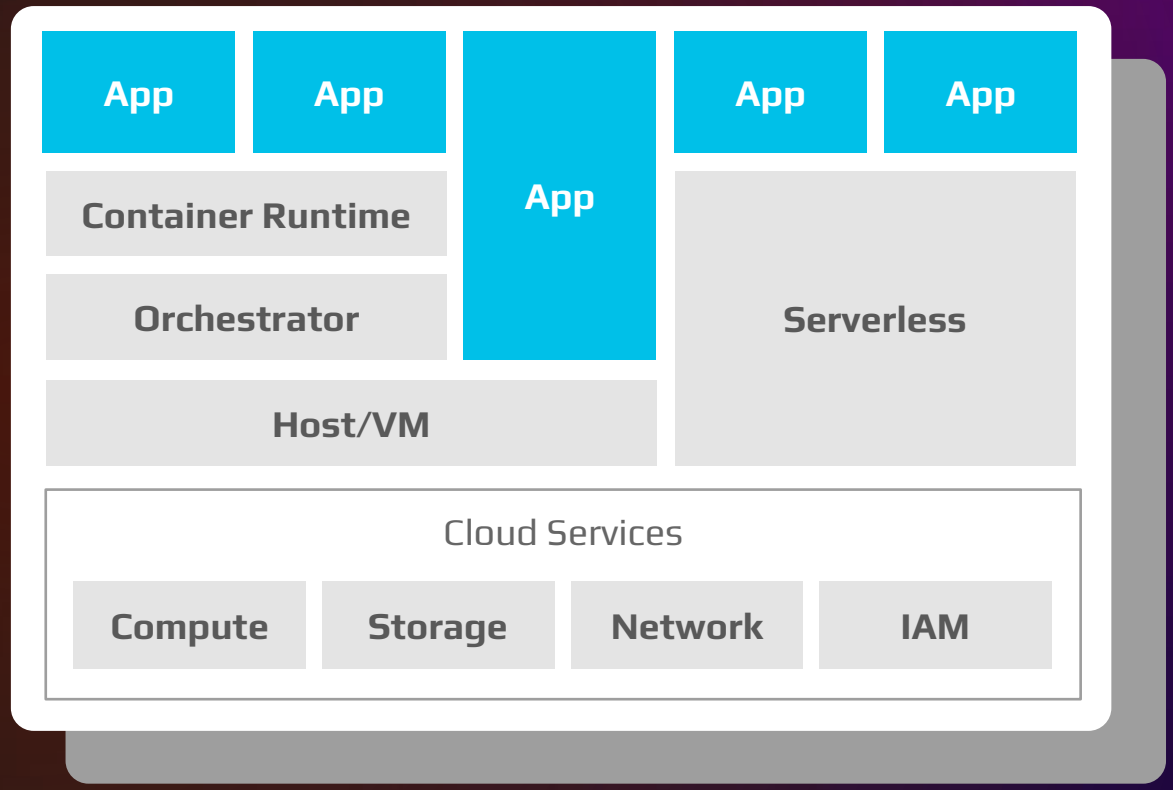
The Open Source Software Supply Chain Introduces Vulnerabilities



*of **application code** is open source*



*of **codebases** contain an OSS vulnerability*



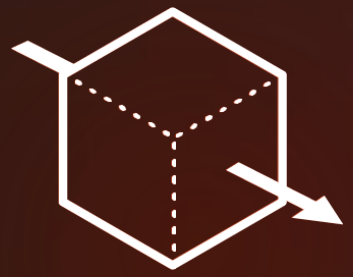
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Source: 2022 OSSRA Report

APIs: The Most Frequent Vector for Unauthorized Data Access?



Unsecured
API Keys



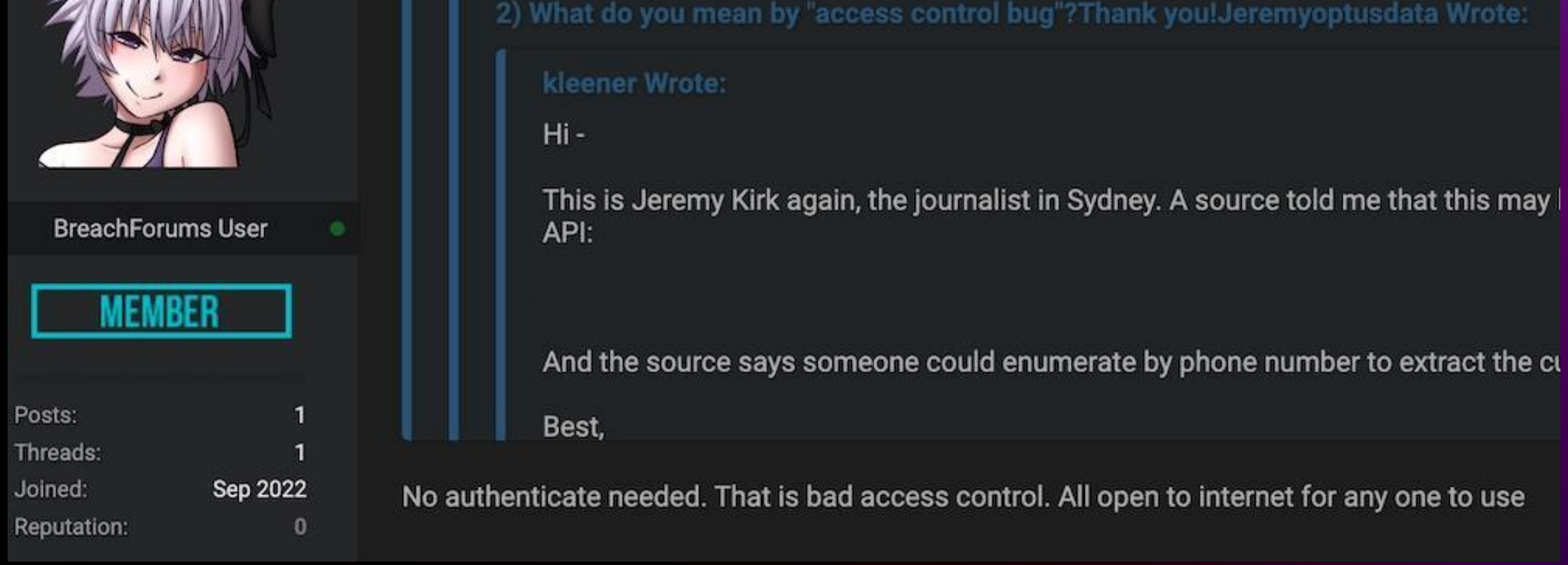
Sniffed
API Calls



Logic
Flaws

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" **No authenticate** (sic) **needed.** That is bad access control.
All open to internet for any one to use. "

– User who claims sensitive data theft affecting 11M customers

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Screenshot Source: ISMG

Common Cloud Threat Actor Tactics

1. Reconnaissance



2. Initial Access



3. Priv. Escalation



4. Lateral Movement



5. Impact



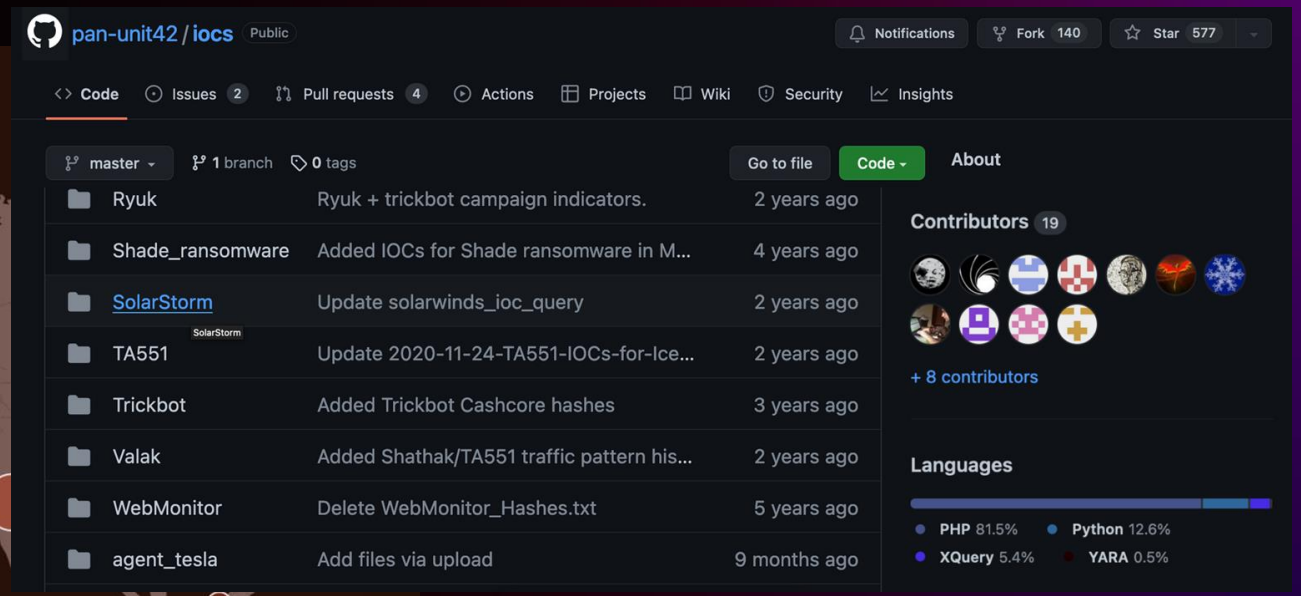




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Stay Risk-Informed Across the Globe with Unit 42 by Palo Alto Networks



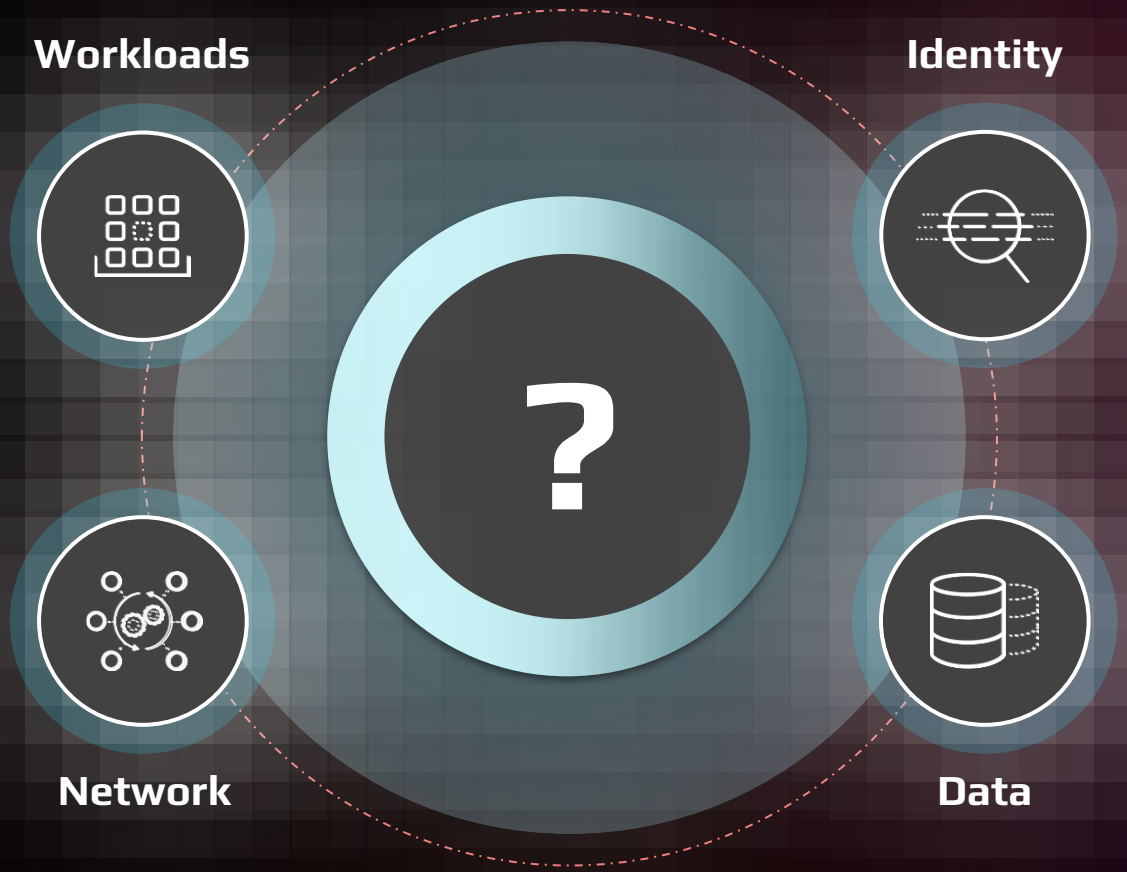


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Modern cloud applications are built differently

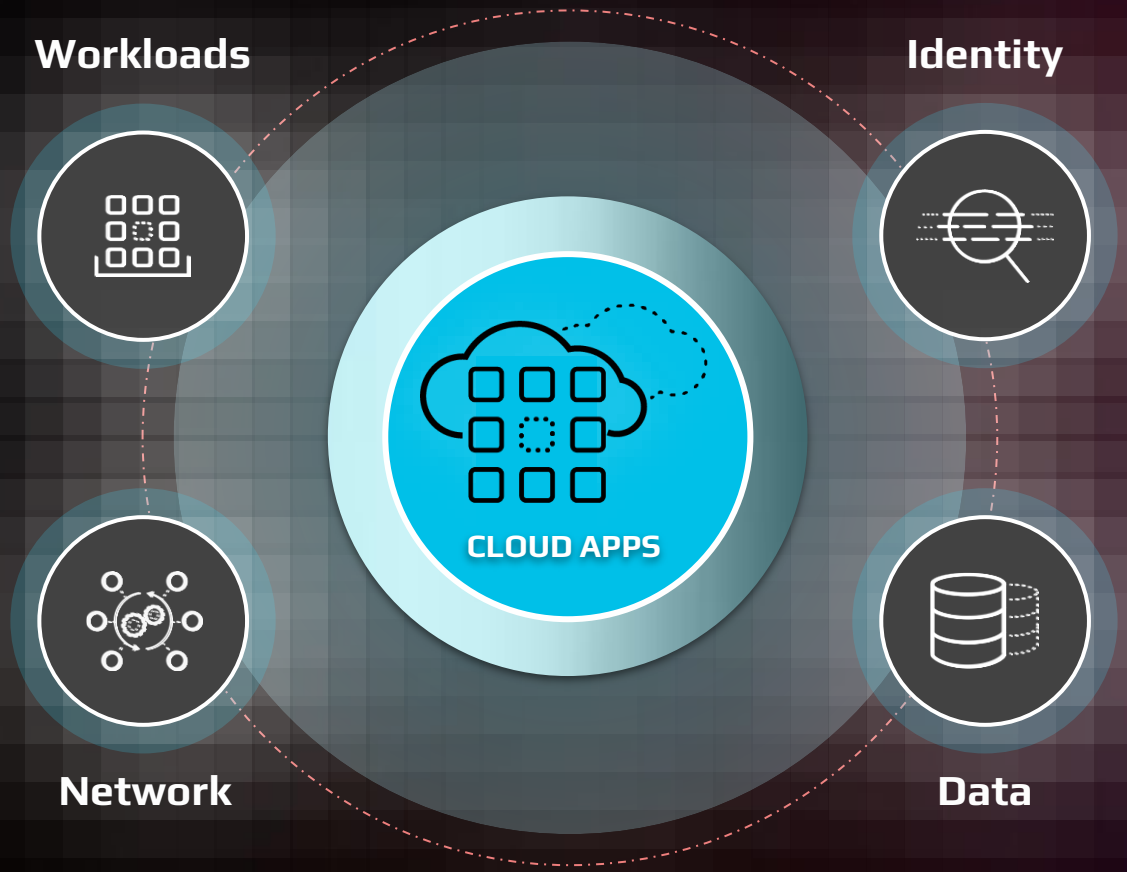
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Who/What is Driving Adoption of Cloud Computing?



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Who/What is Driving Adoption of Cloud Computing?



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Developers Are Leading a Rapid Transition to Cloud



26M+

# of Developers [1]



$600B

Enterprise App Spend [2]



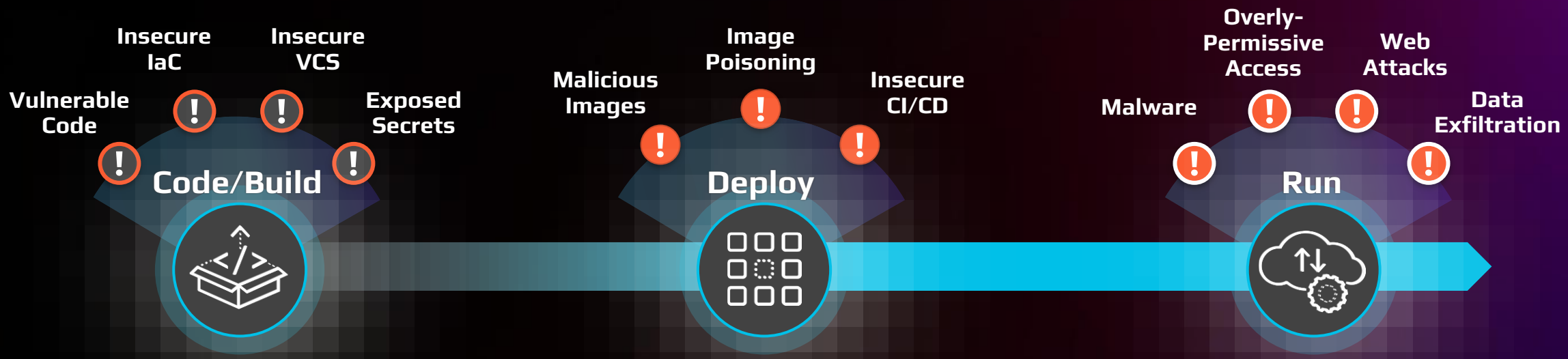
50%+

Cloud-Native Applications [3]

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[1] State of the Developer Nation Report
[2] Gartner Worldwide IT Spending Forecast
[3] EY Understanding cloud native

As Developers Innovate Rapidly Security Teams Are Left Behind



FULL APPLICATION LIFECYCLE

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Industry Response is Multiple Point Products



SILOED, POINT PRODUCTS AT EACH STAGE

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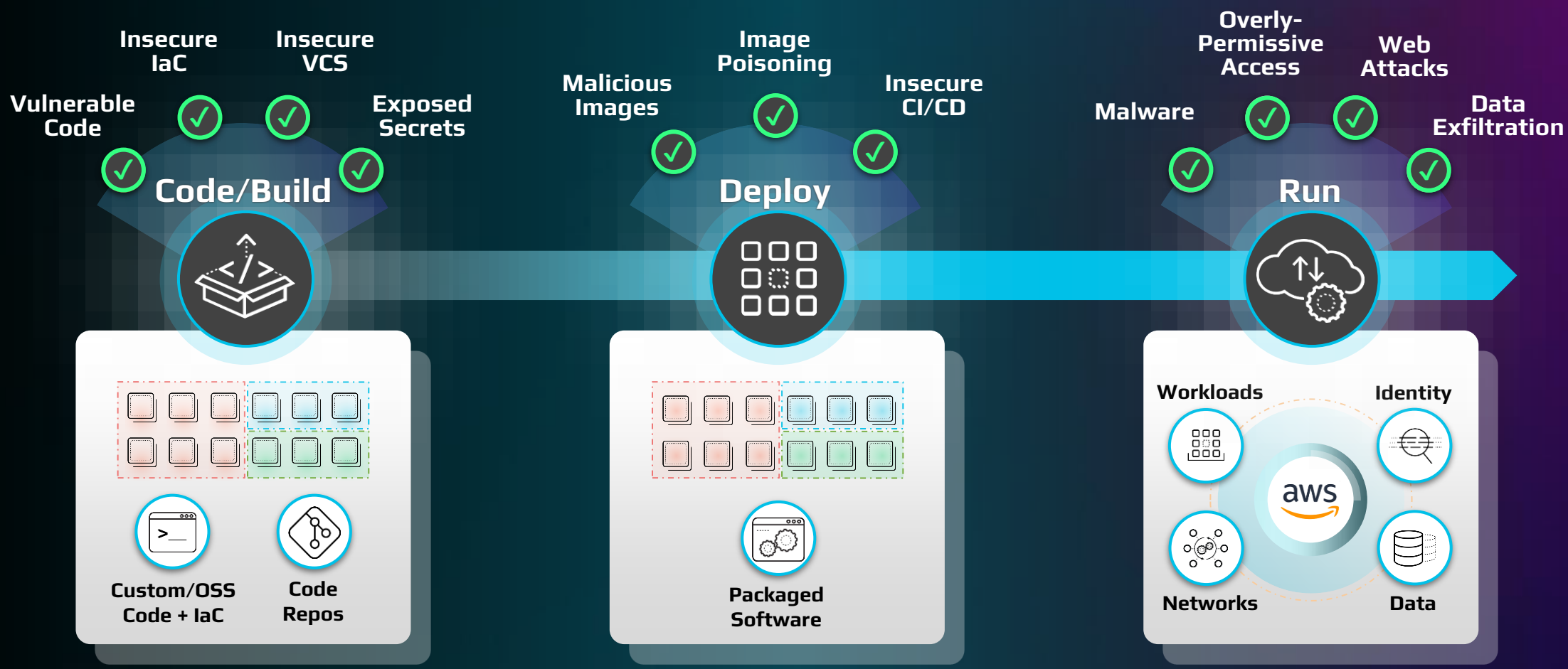
Modernize with a Unified CNAPP
(Cloud-Native Application Protection Platform)



SECURED FULL APPLICATION LIFECYCLE

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Go Beyond Visibility and Silos



with Code-to-Cloud CNAPP Prevention and Protection

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Prisma Cloud:
Code-to-cloud CNAPP

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PRISMA® CLOUD



CODE TO CLOUD

CONTINUOUS VISIBILITY

PREVENTION FIRST

SECURITY CHOICE

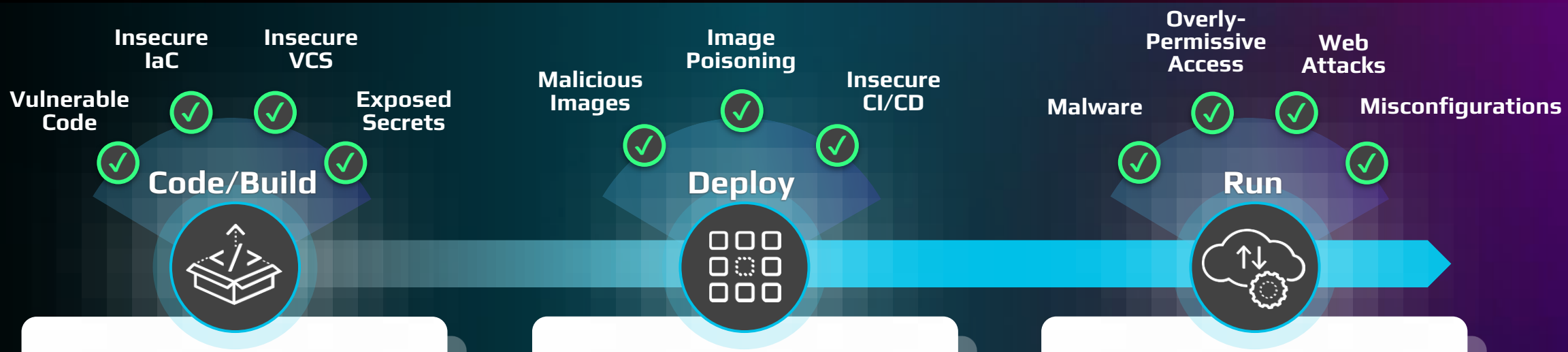
SECURITY AT ANY SCALE

COMPREHENSIVE FULL-LIFECYCLE CNAPP

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Prisma Cloud: Code-to-Cloud CNAPP Prevention & Protection



- Supply Chain Security
- IaC Security
- Software Composition Analysis
- Secrets Scanning
- Vulnerability Management and Compliance

- Container Access Control
- CD Security
- Trusted Images
- Image Analysis Sandbox

- Compliance & Governance
- Misconfig & Threat Detection
- IR & Runtime Security
- Web App & API Security
- IAM Security
- Data Security
- Network Security

- SaaS Platform
- Cloud Scale
- Integrated Code to Cloud
- Easy to Adopt

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Prisma Cloud Architecture

Applications

APIs
Workloads
Data
Code
Infrastructure
Identities

Public Cloud

DevOps Integrated

Bitbucket
circleci
GitHub
GitLab
HashiCorp

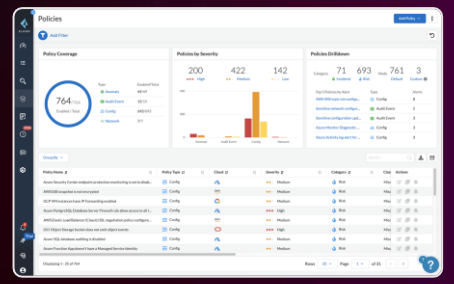
Computing Platforms

AWS Fargate
AWS Lambda
Azure Kubernetes Service (AKS)
docker
OPENSHIFT

Agent
Agentless (APIs)

Metadata, Telemetry
Policy

Prisma Cloud



Real-time visibility and prevention across your cloud estate

Cloud Code Security
Cloud Security Posture Management
Cloud Workload Protection
Cloud Network Security
Cloud Identity Security

AI/ML Engine
Threat Intelligence Stream
Unit 42 Threat Research

SecOps Integrated

servicenow
PagerDuty
CORTEX XSOAR
splunk>
tenable
Qualys.
slack

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Cloud-Native Integration with AWS Services (via APIs and Roles)

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



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

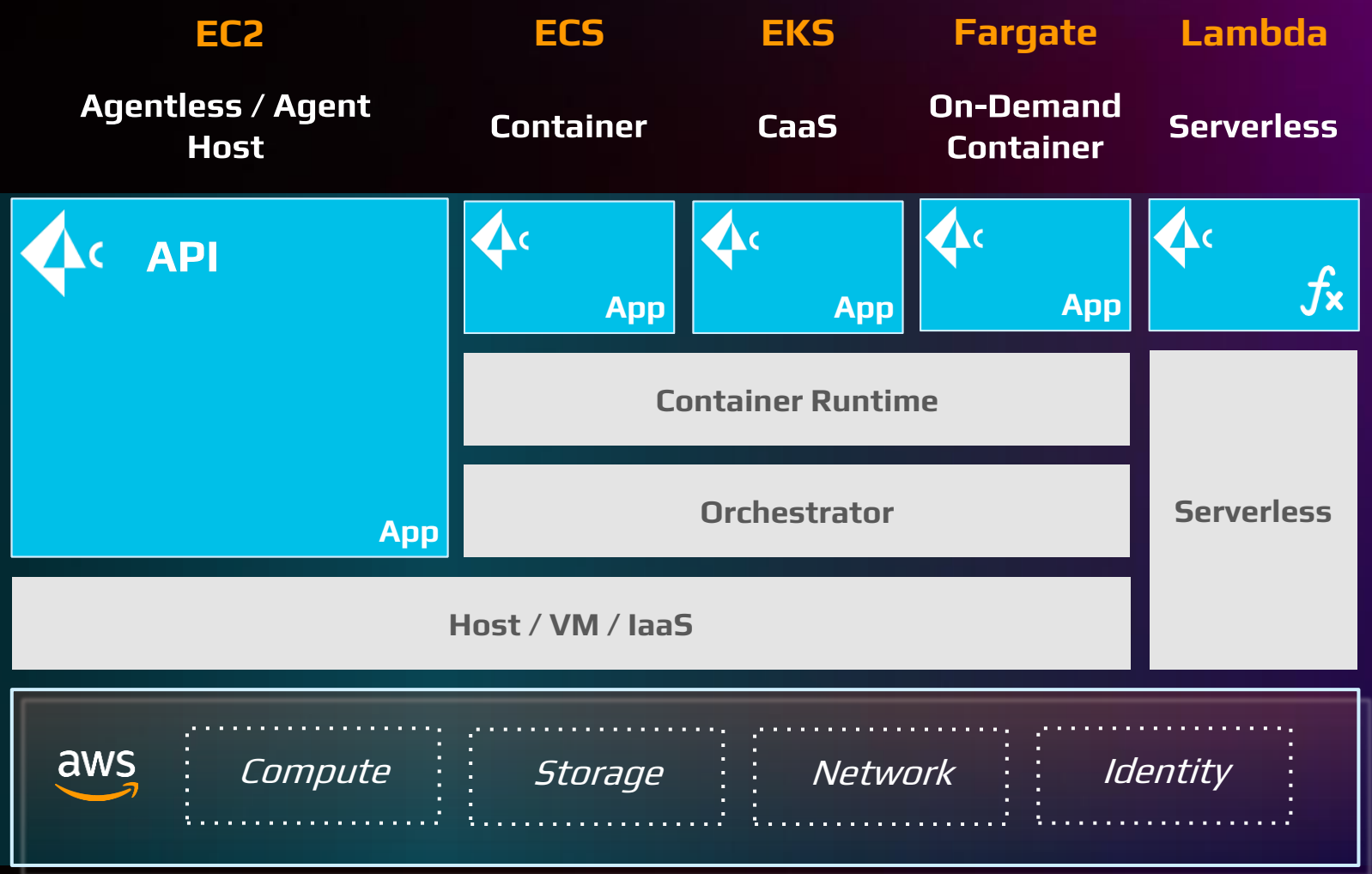
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Full-Stack Workload Protection Across Diverse AWS Compute Options

Full-stack security on **AWS**

+

Agentless security choice
for frictionless visibility



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Reasons to Adopt Comprehensive Prisma Cloud

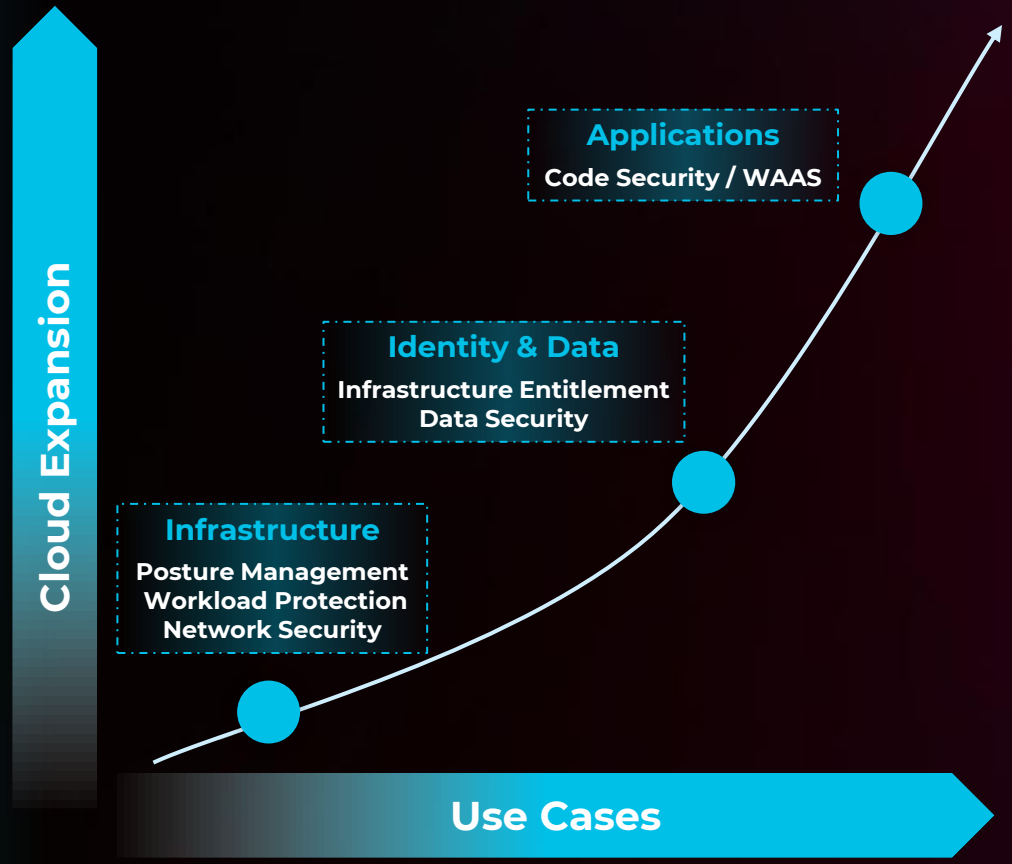
CUSTOMER BENEFITS *

Simpler:
60% reduction in DevOps effort to fix vulnerabilities and misconfigs

Safer:
27% reduction in likelihood of material data breaches

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

INNOVATION & LEADERSHIP



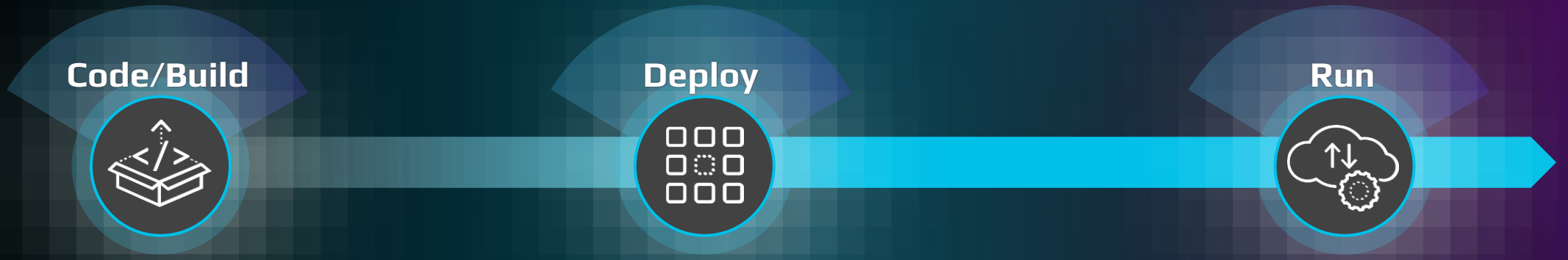
INDUSTRY RECOGNITION

- #1 - Leader Frost & Sullivan Global CNAPP Radar Report[1]
- #1 - Leader, Forrester Wave Cloud Workload Security[2]
- #1 - Leader & Outperformer, GigaOm Vulnerability Management Radar[3]
- #1 - Leader & Fast Mover, GigaOm Developer Security Tools Radar[4]
- Gartner 2021 Hype Cycle[5], Prisma Cloud included in 7 market categories

* Forrester TEI
[1] Frost & Sullivan Global CNAPP Radar Report 2022; [2] Forrester Wave: Cloud Workload Security, Q1 2022; [3] 2021 GigaOm Radar for Vulnerability Management; [4] 2021 GigaOm Radar for Developer Security Tools; [5] Gartner Hype Cycle for Cloud Security, 2021

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Prisma Cloud Secures Applications at Any Scale



22K+
Secrets detected in code repositories

1.5M
Container images scanned

10B+
Cloud assets protected (200+ customers with >1M Assets)

~1T
Cloud events processed daily for threat detection

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Source: Monthly numbers from Palo Alto Networks reporting

Prisma Cloud: Code-to-Cloud Demo

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Prisma Cloud:
Q & A

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