cloud-native applications expected by 20251 80%

750M+

of exposures found in cloud environments²

66%

increase in cloud attacks in the past year³

5.17M average cost of a public cloud data breach4

The Cloud Security Divide

Attackers see one cloud attack surface Security teams see and work in silos

detect, investigate and respond to threats with the same agility that attackers use to exploit these divides.

Security Operations

Limited cloud visibility

for effective response

Organizations need a revolutionary approach that breaks the barriers

between cloud security and security operations teams, enabling them to

leave organizations vulnerable to cloud attacks

Cloud Security

Siloes create dangerous blind spots and

Lack real-time protection

to stop cloud attacks



000 **AI-powered**



Cloud



In a massive coordinated campaign, attackers targeted environment variable (.env) files across thousands of domains to harvest credentials, particularly focusing on cloud service platforms' API keys and hosted

applications' OAuth tokens. The attack's unprecedented scale demonstrates how TAs are exploiting hardcoded

Compromised Creds

Data Exfiltration

90,000+ credentials harvested

organizations affected

1,200+

Victim Environment

Create Serverless Functions and IAM Credentials

Threat Actor Operations

IAM

111,000 domains targeted

7,000

prevent them.

2. Create Resources

With the collected credentials, the TA pivoted and created new resources. Cloud Detection and Response (CDR) can assist organizations to detect

these new IAM or serverless functions.

cloud service platform

credentials compromised

Environmental Leak Techniques

TA initiated the attack with a scan on their target domain, looking for exposed .env files. Cloud XDR agents can detect the collection operations and

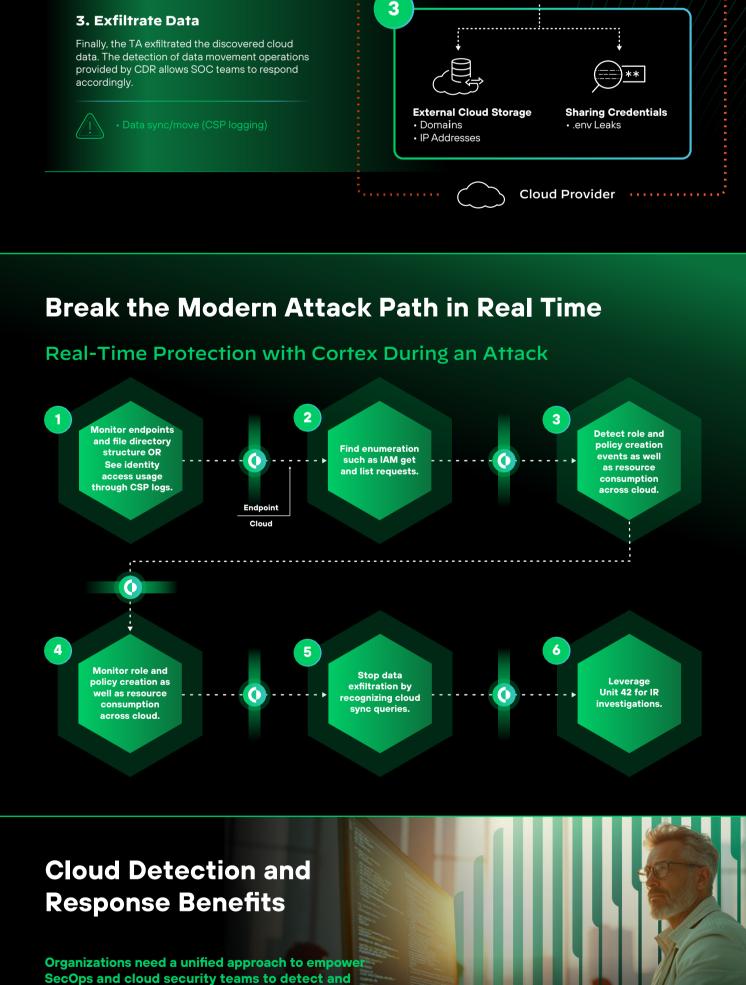
Large-Scale Credential Harvesting

credentials and misconfigurations to gain access to cloud environments.

and techniques SOC teams can use to detect similar operations in their environments. 1. Scan Resources Scan

2

The breakdown of the attack flow details how the TAs succeeded and highlights key locations



Our Approach to Cloud Detection and Response

Detect and prioritize

threats with Al

respond at cloud speed. Cloud workloads can be replicated thousands of times, making it critical to detect vulnerabilities and misconfigurations quickly. CDR provides Al-powered prevention, real-time detection and automated response to help SecOps and cloud security teams stop

incidents before they become breaches.

Prevent attacks before

they escalate



CDR Detect and respond to attacks

Speed investigation

with analytics

Cortex CDR delivers real-time protection across all cloud workloads and applications:

Containers and Kubernetes®:

 Hosts and VMs: Protect hosts and VMs with a defense-in-depth

 Serverless functions: Secure serverless functions across the full application lifecycle.

 Cloud APIs: Monitor and protect APIs for suspicious activity.

Closing the Cloud Security Gap

approach that starts with

prevention.

Secure containers and Kubernetes applications from code to cloud.

Automate end-to-end

response to save time



Cortex CDR

Real-Time

Protection

Transform Your Cloud Security Today

Learn More About

paloalto CORTEX

Request a Demo **Cortex CDR**

¹ "IDC FutureScape: The Digital Business Era Has Arrived, Augmented by GenAl," IDC, November 29, 2023.
² 2023 Unit 42 Attack Surface Threat Report, Palo Alto Networks, September 14, 2023. 2024 Unit 42 Incident Response Report, Palo Alto Networks, February 20, 2024. Cost of a Data Breach Report 2024, IBM Security, July 30, 2024.

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