



**Navigating the Cloud** 

## A Deep Dive into Cloud Security Posture Management (CSPM)



# Introduction to Cloud Security Posture Management (CSPM)

#### **Definition and Objective**

- CSPM is a practice and technology for detecting/preventing misconfigurations and threats.
- Aims to avoid data breaches and ensure compliance.
- Enhances security teams' ability to eliminate blind spots, encourage compliance, and proactively manage risks.



#### **Role of CSPM in Public Clouds**

#### **Application in Public Cloud Environments**

- 1 Mitigates risks and ensures compliance by remediating misconfigurations.
- **2** Automated visibility, continuous monitoring, and remediation support.
- **3** Serves laaS, PaaS, and SaaS layers.



# **CSPM Adoption and Shared Responsibility**

#### **Standard Practice Upon Cloud Migration**

- Adopted when transitioning to AWS, Azure, GCP.
- Supports the cloud security shared responsibility model.

#### **First Step in Securing Cloud Configurations**

• Essential for maintaining data privacy and security in cloud-native applications.



## The Comprehensive Benefits of CSPM

#### **Advantages**

Auto-detection and auto-remediation of configuration errors and threats.

Facilitates compliance adherence.

Provides crucial benefits in cloud security management.

## **Gaining Visibility with CSPM**

#### **Centralized Cloud Visibility**

- 1 CSPM tools offer centralized dashboards for monitoring across multi-cloud environments.
- **2** Continuously or periodically updates a detailed inventory of cloud resources.





## Misconfiguration Detection & Response

#### **Building Security Posture and Enforcing Policies**

- CSPM tools help SOCs establish strong security practices.
- Automated enforcement of security posture in multi-cloud settings.

#### **Common Misconfiguration Examples**

 Open S3 buckets, exposed Kubernetes endpoints, overly permissive serverless functions.



## **Upholding Compliance Standards with CSPM**

#### **Compliance Monitoring and Reporting**

Continuous monitoring against compliance frameworks.

Automated reports and data analysis for audit and security checks.

Frameworks include PCI DSS, GDPR, SOC 2, and HIPAA.





### **How CSPM Operates**

#### **Continuous Monitoring & Auditing**

 Real-time oversight and validation of new or changed services/workloads.

#### **Agentless Security**

 API-driven, bypassing the need for traditional security appliances or agents.



# CSPM's Place in the Security Market Landscape

- 1 Market Outlook
  - Likely integration into adjacent markets like CIEM and CNAPP.
- 2 CIEM and CSPM Synergy
  - CSPM extends to configurations, while CIEM manages cloud identity and entitlements.

## **CSPM** as a Pathway to CNAPP

#### **Role in Cloud Security**

Discovers and remediates public cloud security issues.

Can operate alone or within a CNAPP suite.

#### **Prisma Cloud CNAPP's Approach**

Extends CSPM with vulnerability intelligence from diverse data sources.

Facilitates collaboration between security and DevOps for cloud-native application development.



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