

## **Agenda**

- 01 Introduction
- **02** What is CNAPP?
- O3 CNAPP Capabilities
- 04 Conclusions
- **05** Q&A

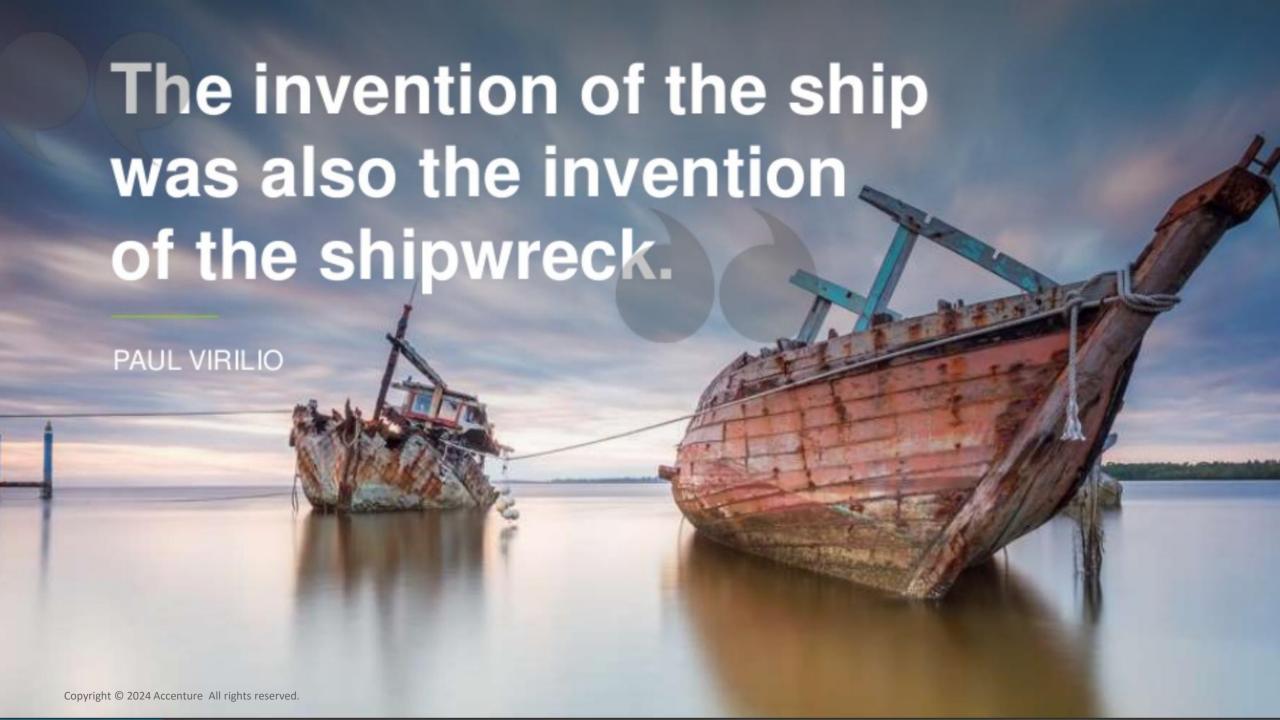


**GALLIA** 

Frederik is a Cyber Security Manager within the CIA department of Accenture Security. He is an active member in the global Cloud Security Community.

He is an enthusiastic and motivated person with strong and indepth knowledge in protocols and security principles. Has an analytical mind that helps in delivering and structuring complex projects.

As a fan of emerging technologies he is experimenting where he can. As a TROOPER he is convinced that together we can make the (cyber) world safe.



### **Navigating the Multi-Cloud Security Problem Space**

Structural barriers prevent moving at the speed of business context, industry threats, technology change



Proliferation of vulnerable code into cloud application development lifecycle



Limited visibility and monitoring of privileged access to cloud environments



Siloed cloud and security operations model extends security event detection and response



## Misconfigured settings

remediation efforts
can be challenging
and costly leaving
misconfigured
environments vulnerable
and open
to threats



## Limited visibility

over the security posture of multi-cloud assets across the organisation



## **Configuration** drift

as cloud environments scale, they become more susceptible to config drift and inadequate change control



## Technology jungle

with Vendor saturation and many point solutions which only address a small part of the cloud security challenges



## **Ever changing** threats

as adversaries are constantly evolving their mode of operations, intentions, and tooling (TTP)



## Vulnerable software

as software supply chain introduces complexity into code development lifecycle

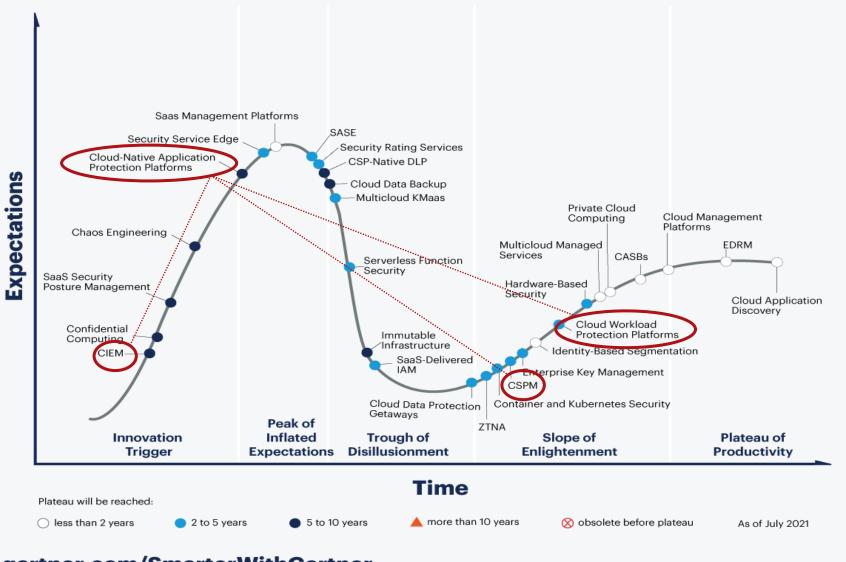


# 01

What is CNAPP?



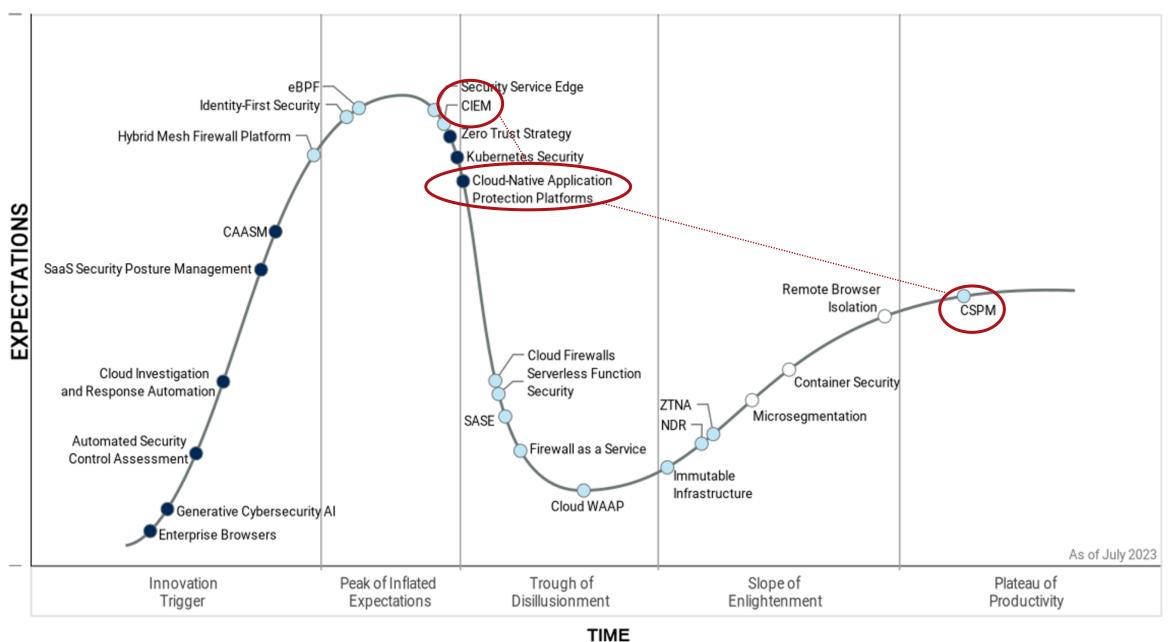
## **Hype Cycle for Cloud Security, 2021**



#### gartner.com/SmarterWithGartner

Gartner Accenture. All rights reserved.

#### Hype Cycle for Workload and Network Security, 2023



>10 yrs.

Plateau will be reached:  $\bigcirc$  <2 yrs.  $\bigcirc$  2–5 yrs.  $\bigcirc$  5–10 yrs.

Obsolete before plateau

### **CNAPP Definition**

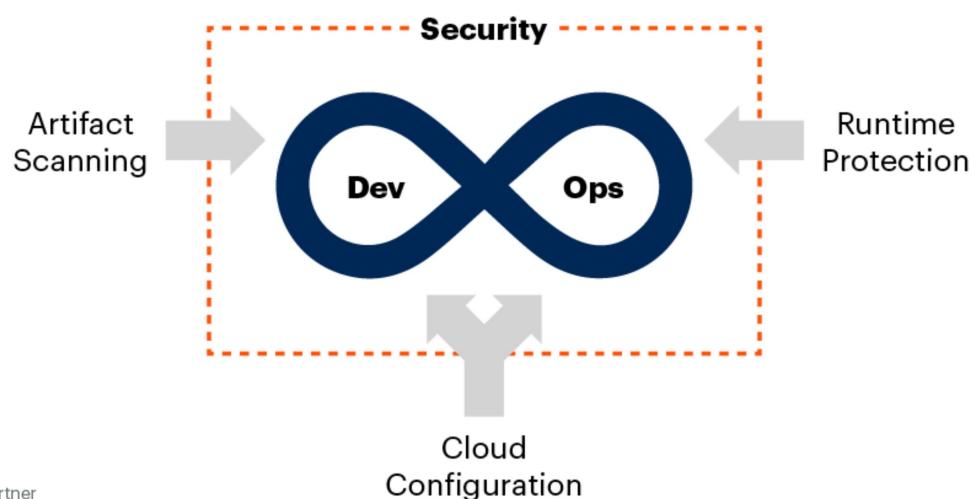
"Cloud-native application protection platforms (CNAPPs) are an integrated set of security and compliance capabilities designed to help secure and protect cloud-native applications across development and production."

Gartner.

Gartner: Innovation Insight for Cloud Native Application Protection Platforms report, 08/25/21

## **Cloud Native Application Protection Platform (CNAPP)**

CNAPP is a logical evolution for DevSecOps and "shift left" security



Source: Gartner



# 02

## **CNAPP Presentation**

Capabilities

## **CNAPP Key Principles**

A Cloud-Native Application Protection Platform (CNAPP) is an integrated set of security and compliance capabilities, designed to help secure and protect cloud-native applications across multi-Cloud setups.













## **CNAPP** Key Principles

A Cloud-Native Application Protection Platform (CNAPP) is an integrated set of security and compliance capabilities, designed to help secure and protect cloud-native applications across multi-Cloud setups.



#### **CSPM**

**Cloud Security Posture Management** 



Misconfigurations Non-compliance



#### **CWP**

**Cloud Workload Protection** 



Malware
Threat Detection



#### **TVM**

Threat & Vulnerability Management



Vulnerabilities Exposed Services



#### **CIEM**

Cloud Infrastructure Entitlement Management



Excessive and risky privileges



#### **CS**

**Code Security** 



Misconfigurations
Unsecure secrets



#### **NWS**

**Network Security** 



Network anomaly



## **CNAPP Key Principles**

A Cloud-Native Application Protection Platform (CNAPP) is an integrated set of security and compliance capabilities, designed to help secure and protect cloud-native applications across multi-Cloud setups.



#### **CSPM**

**Cloud Security Posture Management** 

- Visibility across multiple environments
- Compliance Monitoring
- · Configurations Scanning
- · Threat Detection
- Incident Response (leveraging integrations)



#### **CIEM**

Cloud Infrastructure Entitlement Management

- IAM Governance and Security
- Privileges Visibility
- User and Entity Behavior Analytics



#### **CWP**

Cloud Workload Protection

- Runtime Protection for :
  - Virtual Machines
  - Containers
  - Serverless Functions
  - Web Applications and API
- System Integrity Protection

- Application Control
- Behavioural Monitoring
- Intrusion Prevention
- Malware Scanning
- Sensitive Data Scanning



#### **TVM**

Threat & Vulnerability Management

 Threat Analysis and Vulnerability Management (usually part of CWP features)



#### **CS**

**Code Security** 

- SAST/DAST
- Software composition analysis (SCA)
- Secrets Scanning
- laC Security and Policy as code
- Container Images Scanning

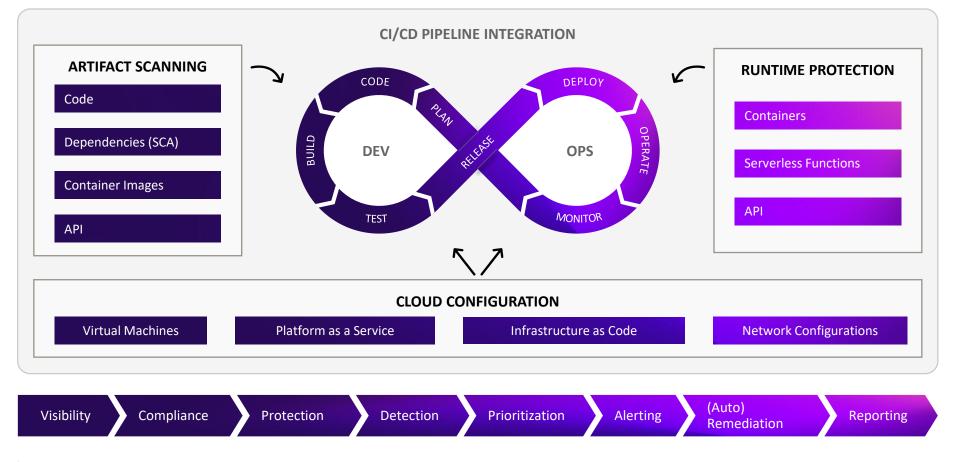


- Visibility
- Anomalous network behavior detection
- Micro-segmentation



## **CNAPP Technical Description**

CNAPP features can be split into three categories: Artifact Scanning, Runtime Protection, Cloud Configuration - allowing the platform to perform security and protection of Cloud assets along the whole lifecycle.

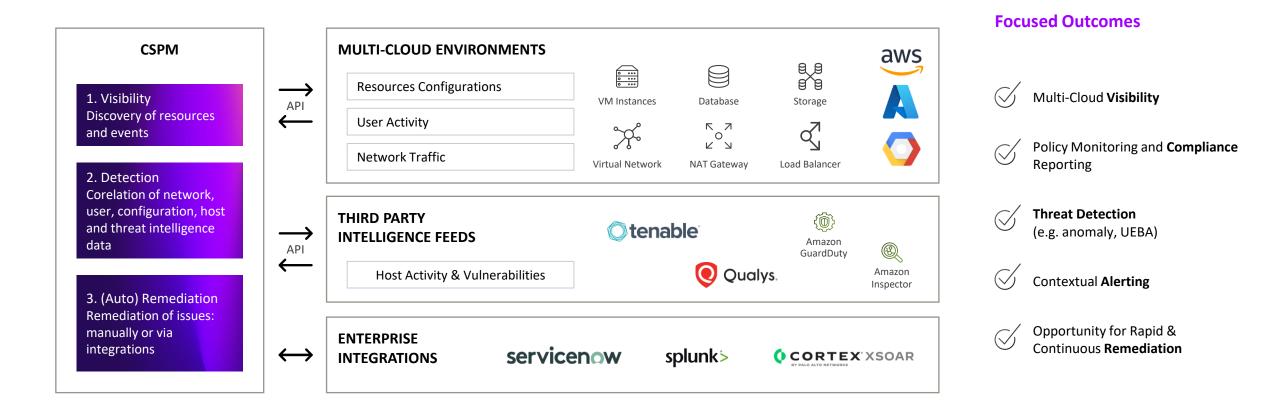


#### **Focused Outcomes**

- Full visibility across multi-Cloud environments, filling the existing knowledge gap
- Improved Risk Prioritization, enabled by centralized and contextualized risk queue (aggregating vulnerability data, extensive permissions, misconfigurations, etc.)
- Time efficiency empowered by auto remediation
- Reduced complexity and costs associated with multiple security tools
- Seamless integration with CI/CD pipeline, leading to better security tool acceptance from DevOps teams

## **Deep Dive into CSPM**

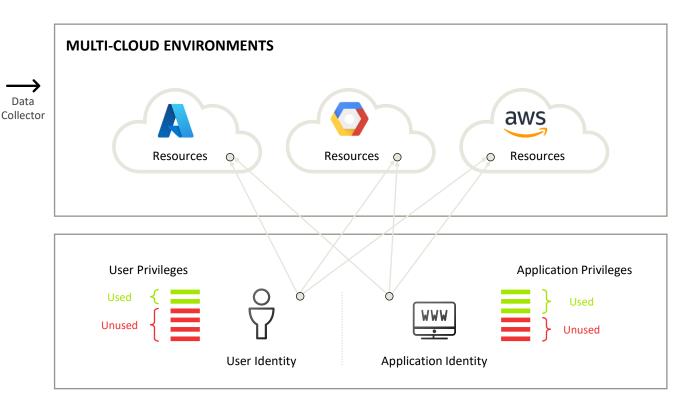
A Cloud Security Posture Management (CSPM) continuously monitors public cloud environments to detect and protect cloud infrastructure from security threats as well as to maintain compliance.



## **Deep Dive into CIEM**

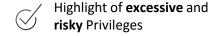
A Cloud Infrastructure Entitlement Management (CIEM) is supporting the process to manage identities and privileges in Cloud environments and enables a comprehensive overview of excessive or risky permissions.

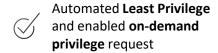




#### **Focused Outcomes**









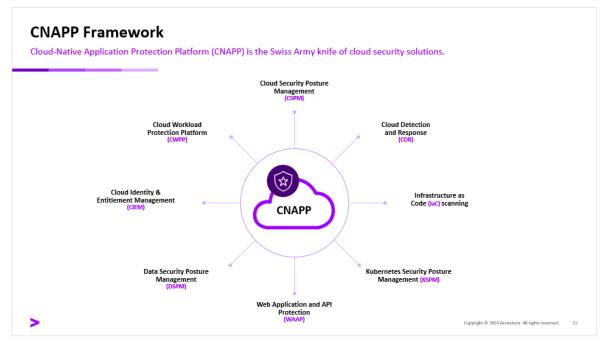
## **Conclusion – CNAPP**

Cloud native Application protection platforms

#### Is our cloud secure?



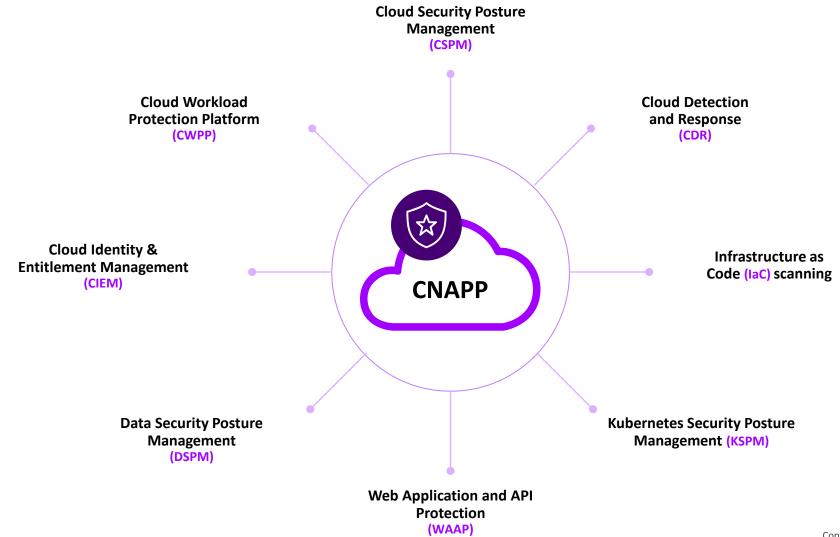
#### Swiss army knife?





#### **CNAPP Framework**

Cloud-Native Application Protection Platform (CNAPP) is the Swiss Army knife of cloud security solutions.



## Thank You

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