# Ensuring Cloud Security Best Practices

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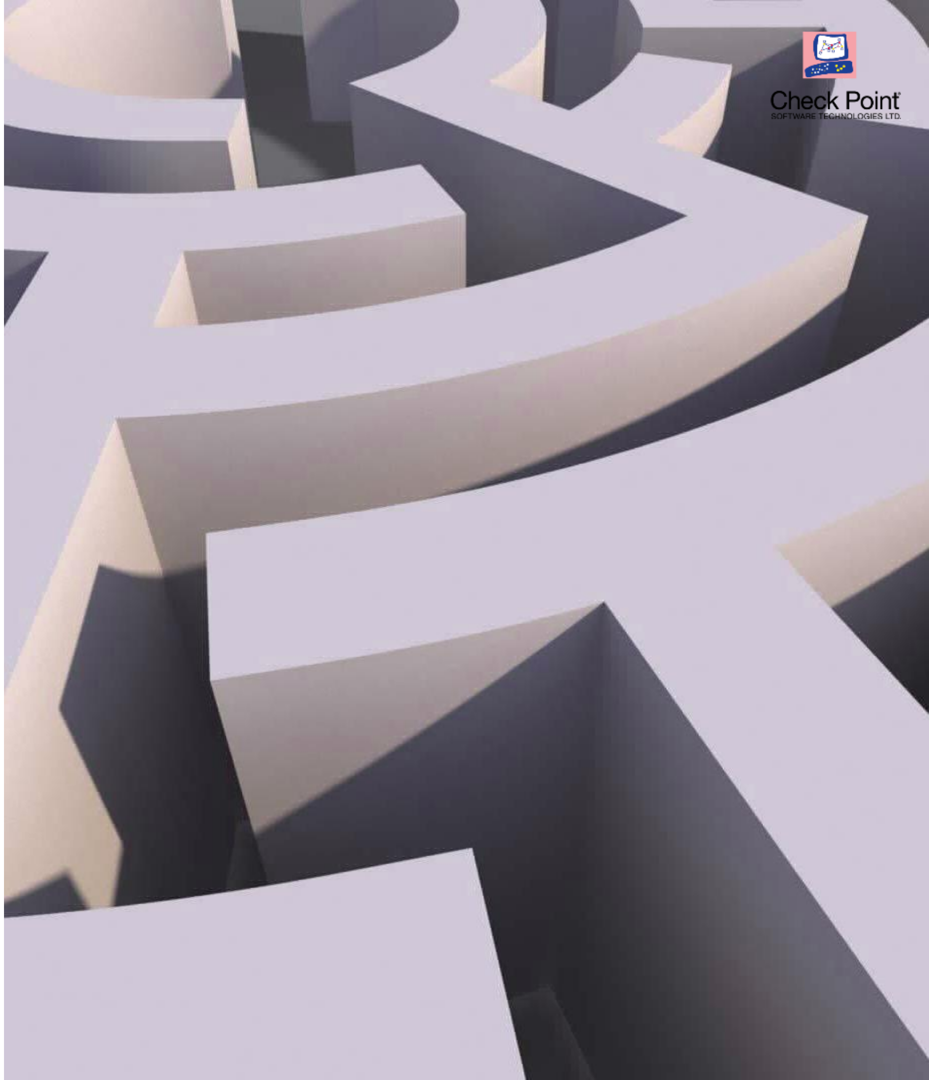
# Agenda

- Security Challenges in the Cloud
- Ensuring Cloud Security Best Practices
- Summary



# Security Challenges in the Cloud

## Infrastructure Challenges

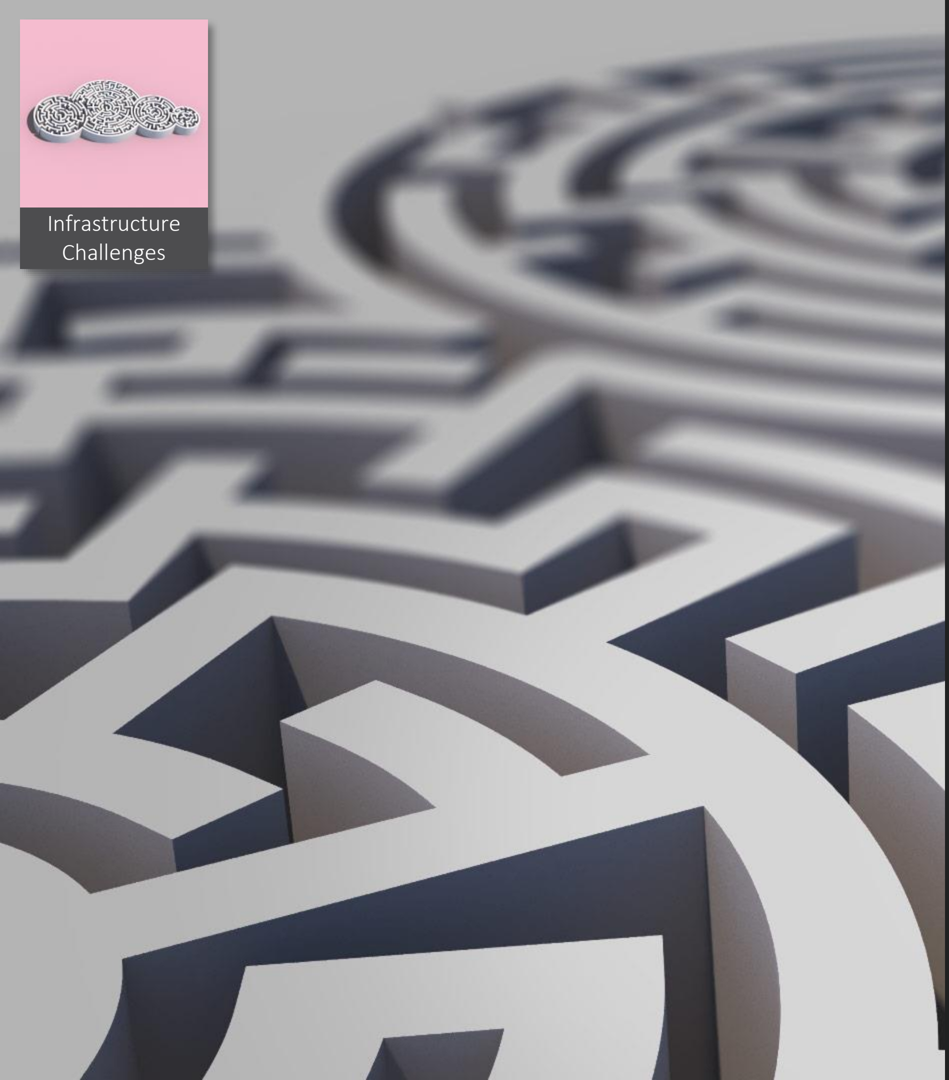
- Shared Responsibility
- Minimal Visibility
- Ever-Changing workloads
- Multi-Cloud

## Internal Risks

- Misconfigurations
- Insider Threat
- Compliance and Regulations

## External Threats

- Malware
- Zero-day Threats
- Account Takeover
- Gen V Attacks



Infrastructure Challenges

# Minimal Visibility

- Cloud deployments result in challenges around identifying and quantifying assets
- Invisible and unmanaged assets create large gaps in security enforcement

> *Organizations … are struggling with visibility, making it almost impossible to determine what computing tasks are taking place where, under whose direction.*

Hype Cycle for Cloud Security, Gartner, 7/2018

Internal Risks

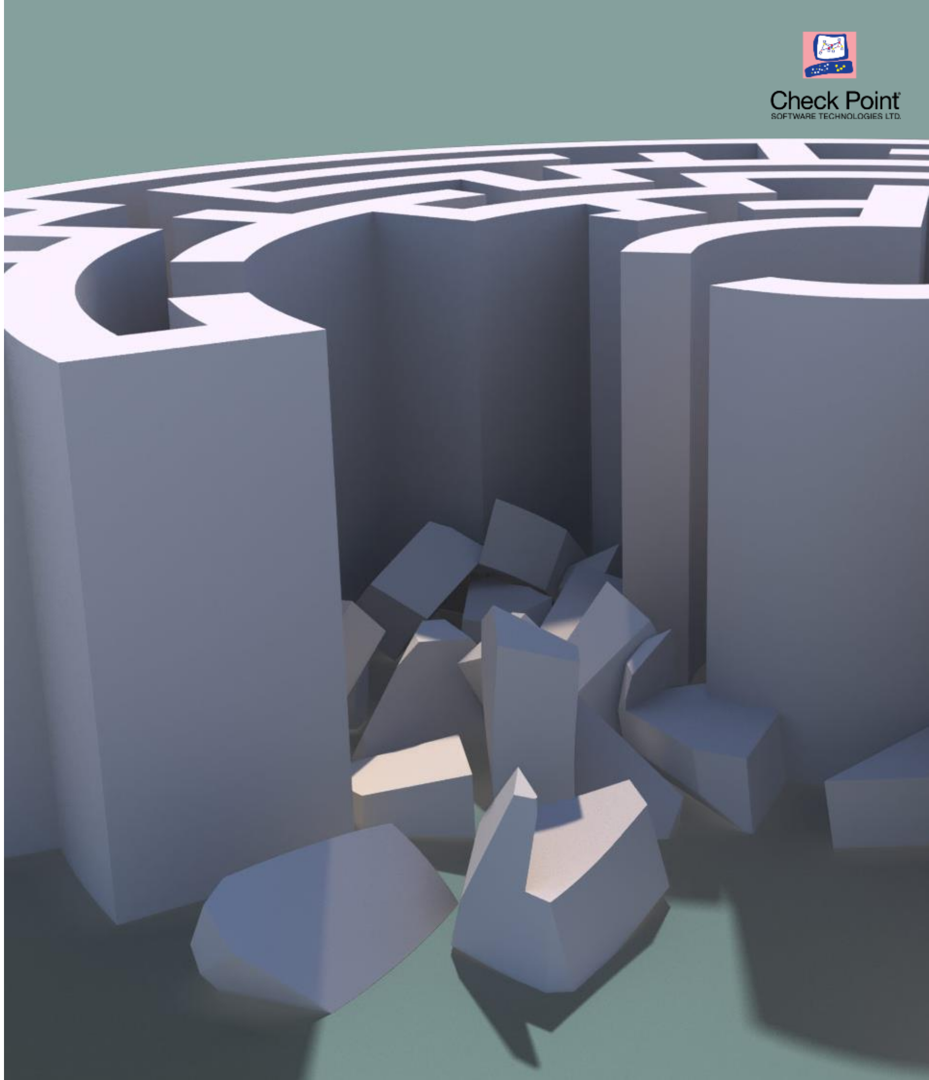
# Misconfigurations

Most of the stolen data incidents in the cloud are related to simple human errors rather than concerted attacks

> “ *Through 2020, 95% of cloud security failures will be the customer’s fault* ”

Gartner

Is the Cloud Secure?
March, 2018



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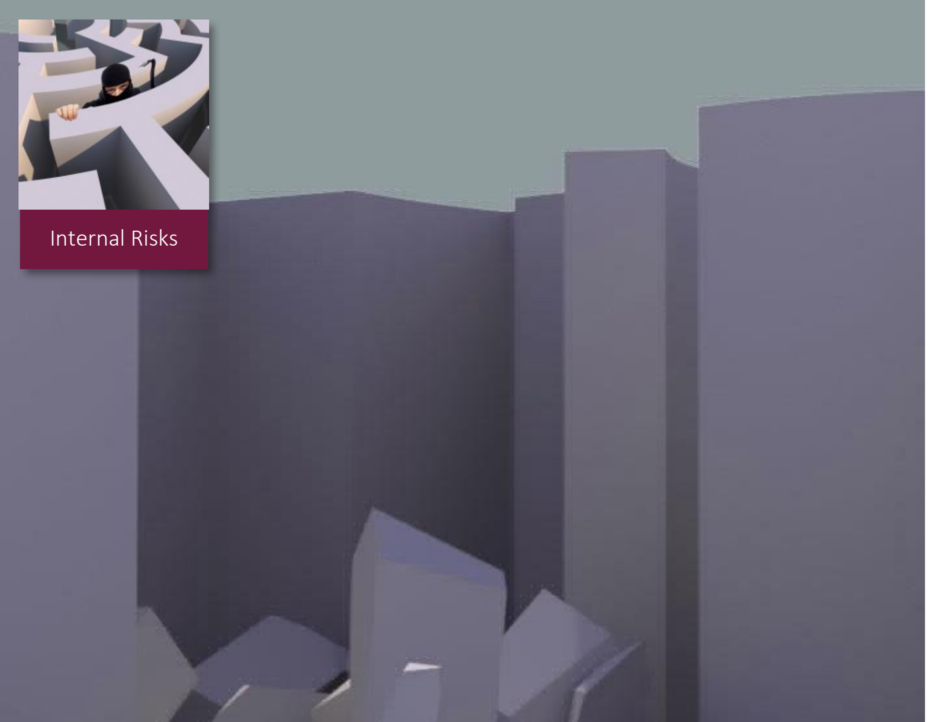
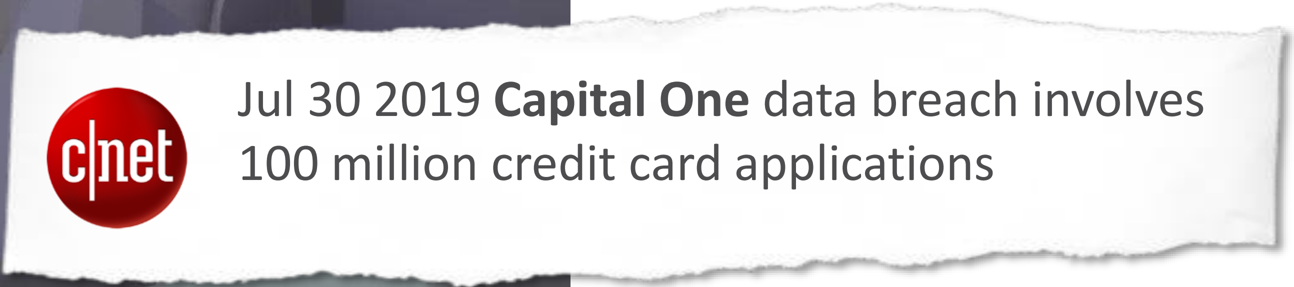


Internal Risks

# Misconfigurations

Common examples are:

- Over permissive access configuration to services
- Weak administrative user passwords
- No governance over cloud services and API usage



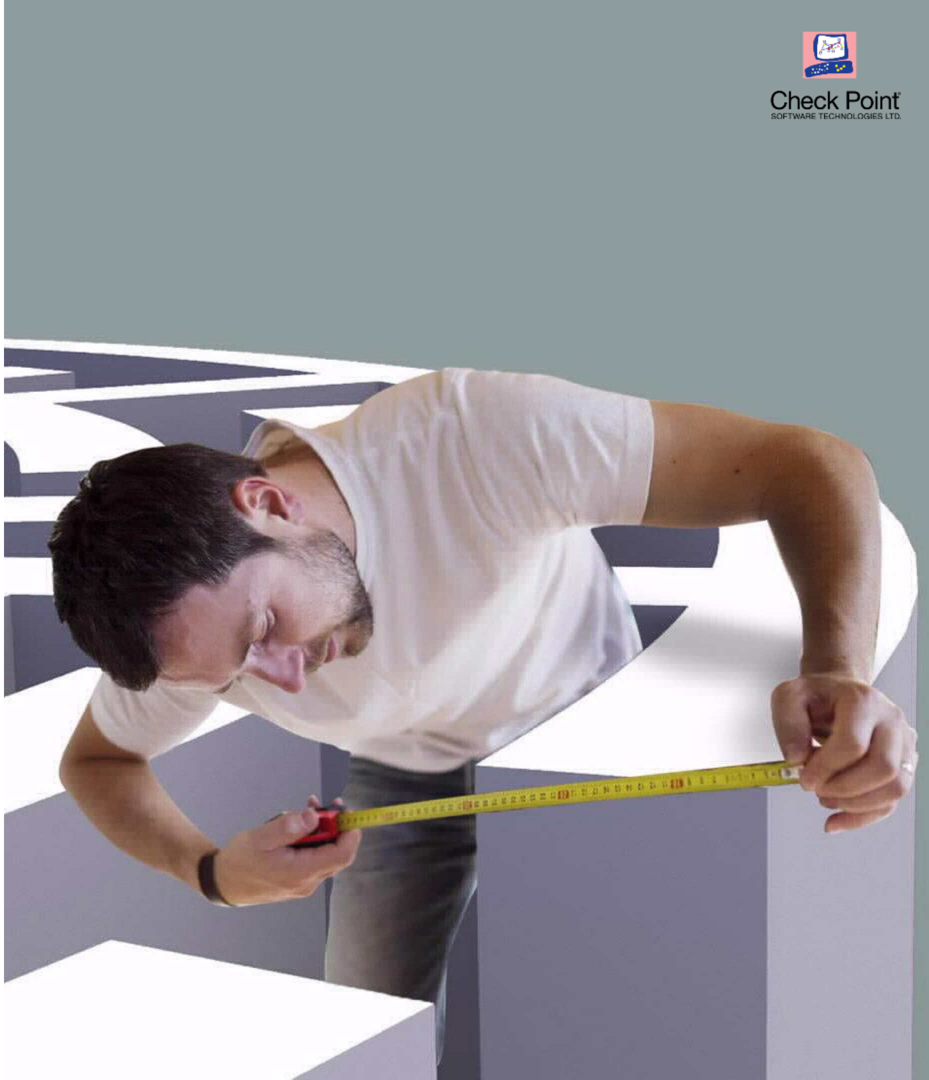
Jul 30 2019 **Capital One** data breach involves 100 million credit card applications

Internal Risks

# Compliance & Regulations

- Compliance & self governance are highly focused areas for companies in regulated industries (HIPAA, PCI-DSS) or in certain geographical areas (GDPR)

- Lack of visibility, the dynamic nature of cloud and lack of certainty regarding the location of the payload, all make compliance a challenging task.



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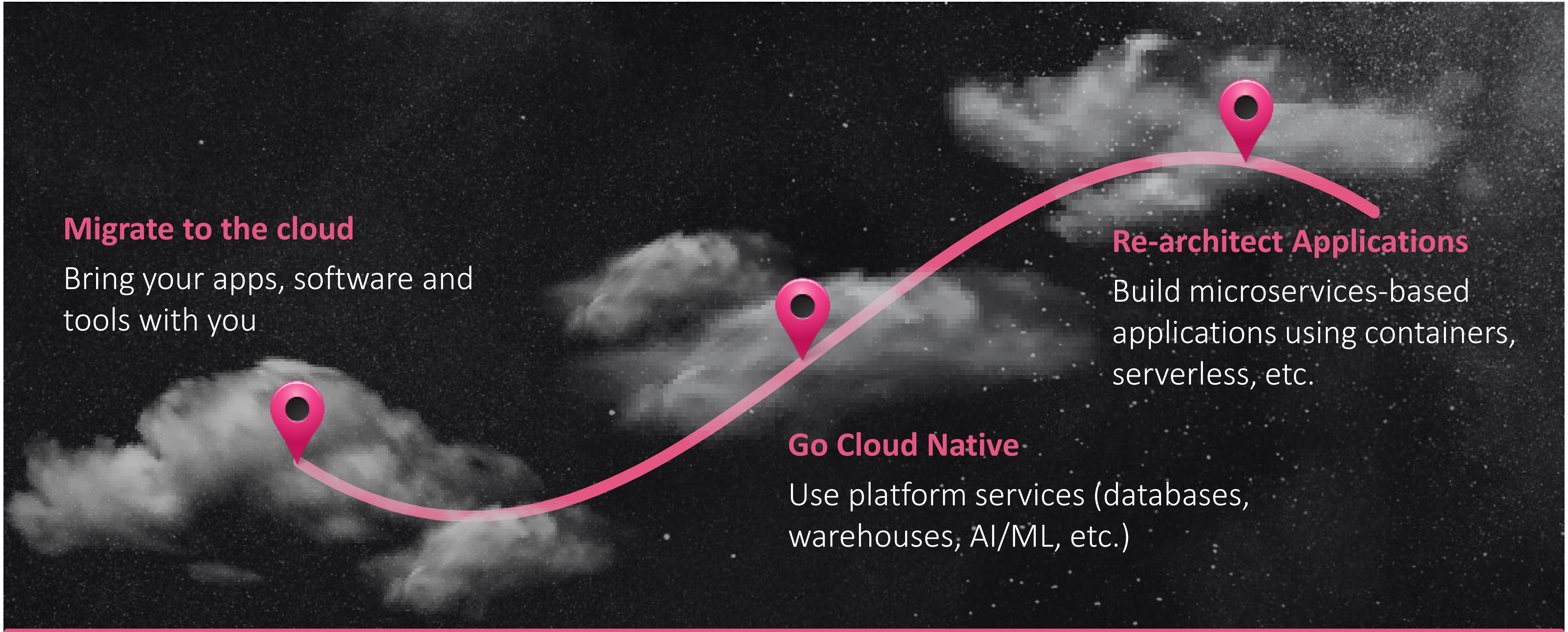
CloudGuard

# Rethink Your Security

- Security that gives visibility
- Security that is more flexible and agile
- Security that prevents advanced threats
- Security that ensure continuous best practices

# Customers are on a Cloud Journey



**Migrate to the cloud**

Bring your apps, software and tools with you

**Go Cloud Native**

Use platform services (databases, warehouses, AI/ML, etc.)

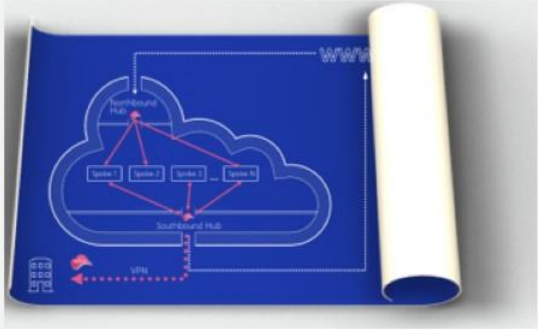
**Re-architect Applications**

Build microservices-based applications using containers, serverless, etc.

The same organization can be at different points along the journey for different applications and teams

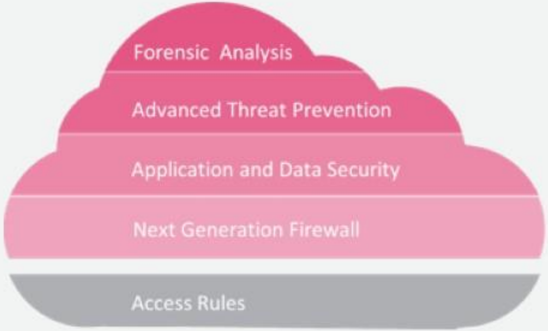
# Network Security with CloudGuard

## 1 Deploy the right architecture



**Cloud Security Blueprint**

## 2 Protect the network data plane



Forensic Analysis

Advanced Threat Prevention

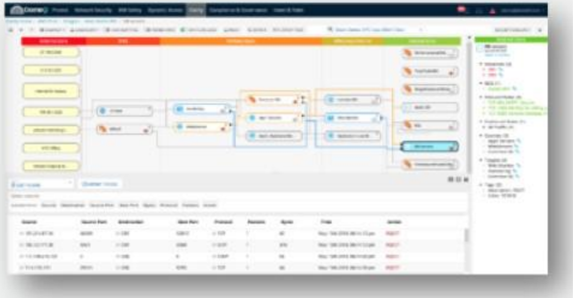
Application and Data Security

Next Generation Firewall

Access Rules

**CloudGuard IaaS Gateway for public and private clouds**

## 3 Protect the network control plane



**CloudGuard Dome9 – Clarity and Compliance Engine**

# Ensuring security best practices with CloudGuard Dome9

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- Extensive visibility for the ever-changing cloud assets with the ability to manage cloud native security controls

- Continues compliance checks for governance and regulations, automatically remediation of misconfigurations and protecting the business

- Native Threat Protection and Security Analytics for the Public Cloud. CloudGuard Log.ic enriches your cloud logs with context, transforming them into actionable security logic.

# SUMMARY

- **CloudGuard IaaS** provides **market leading cloud** security detection and protection on **all** main public cloud environments
- **CloudGuard Dome9** provides “guard rails” against **misconfiguration** and **malicious actions**
- **CloudGuard** is an integral part of the **Infinity Total Protection Suite**

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# THANK YOU

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