CLOUD WITH CONFIDENCE

E-Jornadas FCCN

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CHECK POINT: SECURE YOUR EVERYTHING

Global Leader – 100,000+ Customers, 88+ Countries, 6,200+ Partners
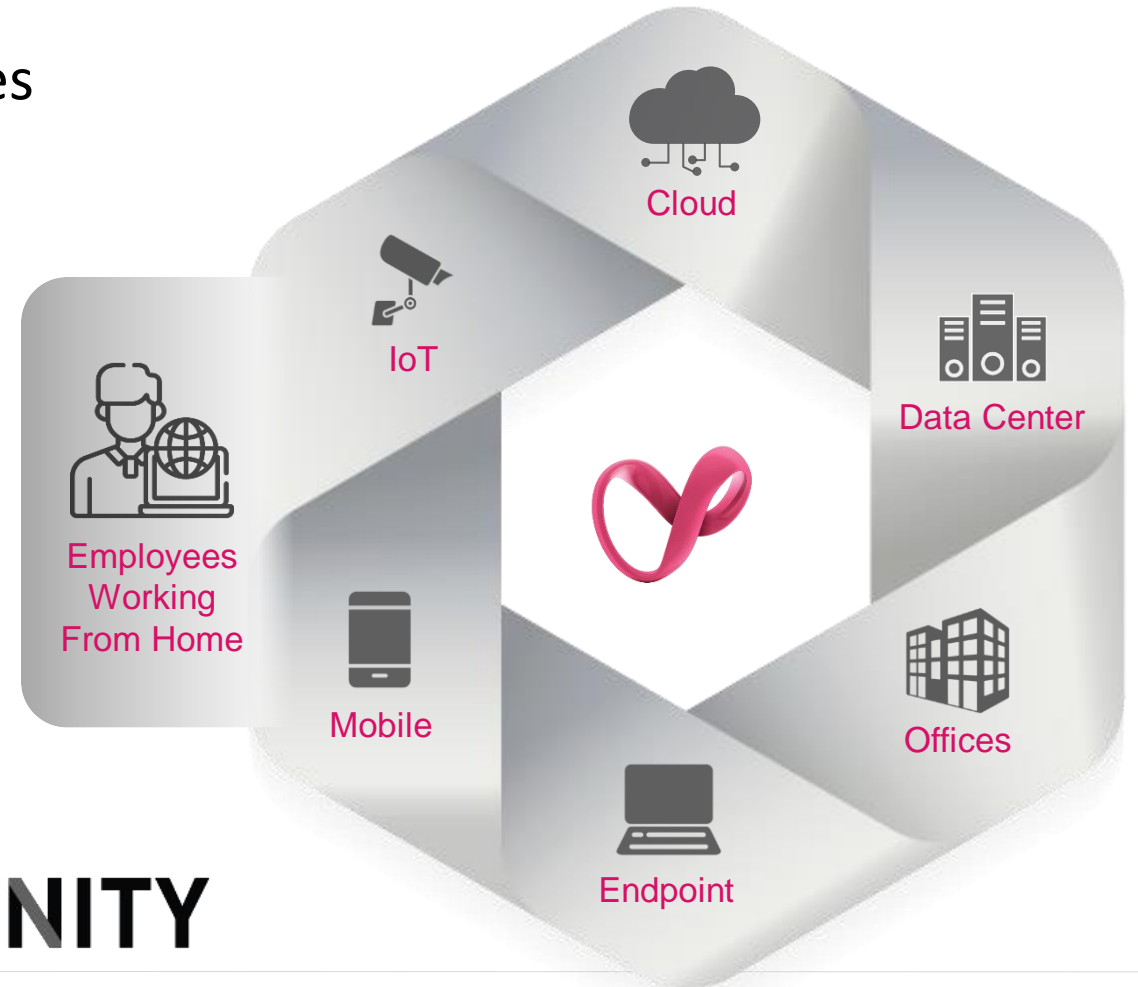
Over 25 years of cutting edge technologies
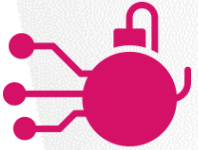
Traded on Nasdaq since 1996 - CHKP

5,800+ Employees

Cloud

IoT

Data Center

Employees Working From Home

Mobile

Offices

Endpoint

CHECK POINT
INFINITY

Check Point
SOFTWARE TECHNOLOGIES

Market Trends

Enterprise
Security Challenges

The Environment Is Changing

ATTACK SURFACES ARE WIDENING

THREATS ARE INCREASING

BUDGETS ARE CHANGING

10 TRENDS POST COVID-19

Online shopping and robotic deliveries

Digital and contactless payments

Remote work

Distance learning

Telehealth

Online entertainment

Supply Chain 4.0

3D Printing

Robotics and Drone

5G and ICT

Attackers have the advantage…

- Easy access to sophisticated malware technologies

- Businesses can't upgrade security fast enough

- Attackers exploit the holes in defense

90% of organizations aren't protected from today's attacks

Business risk is increasing

OLD AND AGING SECURITY SOLUTIONS	NEED TO PROTECT NEW TECHNOLOGIES	LACK OF RESOURCES	BUDGET CONSTRAINTS
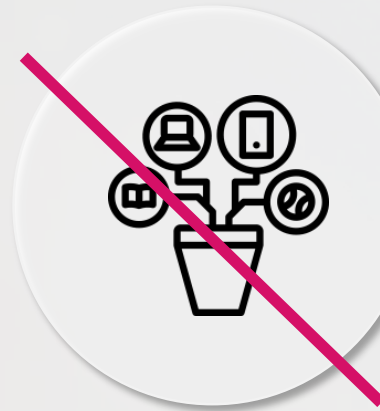
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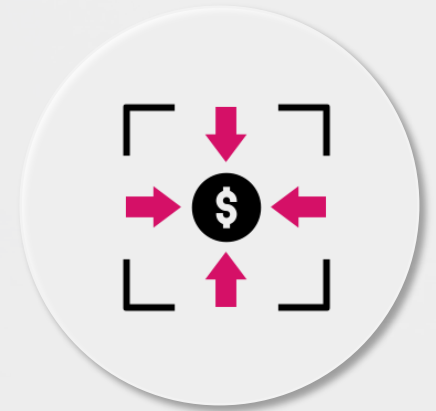
How Can We Address This Trend and Challenges?

The vision for a modern cyber security architecture

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INFINITY

Check Point Infinity combines
the **best** and the **broadest**
cyber security architecture
with the **most advanced threat
prevention** technologies

NETWORK

ENDPOINTS

CLOUD

MOBILE

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SOFTWARE TECHNOLOGIES

CLOUD

CloudGuard Dome9 — Security Posture Management

CloudGuard LOG.IC — Visibility & Traffic Analysis

CloudGuard Workload — Runtime Workload Protection

CloudGuard SaaS — SaaS, Email Security

CloudGuard IaaS — Cloud Network Security

CloudGuard Edge / CloudGuard Connect — Branch Threat Prevention

CloudGuard WAAP — Web & API Protection

Multi & Hybrid Cloud   SD-WAN

MOBILE

SandBlast MOBILE

- App Protection
- Network Protection
- Device Protection

- Capsule WorkSpace/Docs
- Remote Access
- Secure Business Data
- Protect Docs Everywhere

INTERNET of THINGS

Risk Analysis, Auto Segmentation, Threat Prevention

CHECK POINT INFINITY

MULTIVECTOR CONTROLS, UNIFIED ARCHITECTURE

SHARED THREAT INTELLIGENCE

THREATCLOUD

cp<r> CHECK POINT RESEARCH

R80 Consolidated Security

SMART-1 CLOUD Security Management from the Cloud
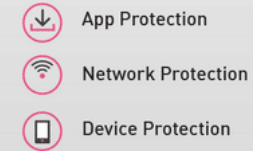
CONSOLIDATED THREAT MANAGEMENT

MAESTRO — NETWORK — SandBlast NETWORK

Headquarters

- Access Control
- Data Protection
- Multi-layered Security
- Advanced Threat Prevention

Branch

- Access Control
- Multi-layered Security
- Advanced Threat Prevention
- Wi-Fi, DSL, PoE Ready

ENDPOINT

SandBlast AGENT

- Threat Prevention
- Anti-Exploit
- Anti-Ransomware
- Forensics

Access/Data Security

- Access Control
- Secure Media
- Secure Documents

Check Point SOFTWARE TECHNOLOGIES

Cloud

PARADIGM
SHIFT

Public Cloud Work Models

	IaaS	**CaaS**	**PaaS**	**FaaS**	
← On Premise	**Servers**	**Containers**	**Platform**	**Serverless**	SaaS →
	AWS EC2 Azure VMs Google Compute Engine OpenStack VMWare	Google Container Engine Azure Container Service AWS Container Service	AWS Beanstalk Azure App Google App Engine OpenShift Heroku	AWS Lambda Azure Functions Google Cloud Functions Apache OpenWhisk	

More control
Management overhead
Highly customizable
Low Velocity
Low Abstraction

←→

Less control
No Management
No customization
High Velocity
High Abstraction

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SOFTWARE TECHNOLOGIES
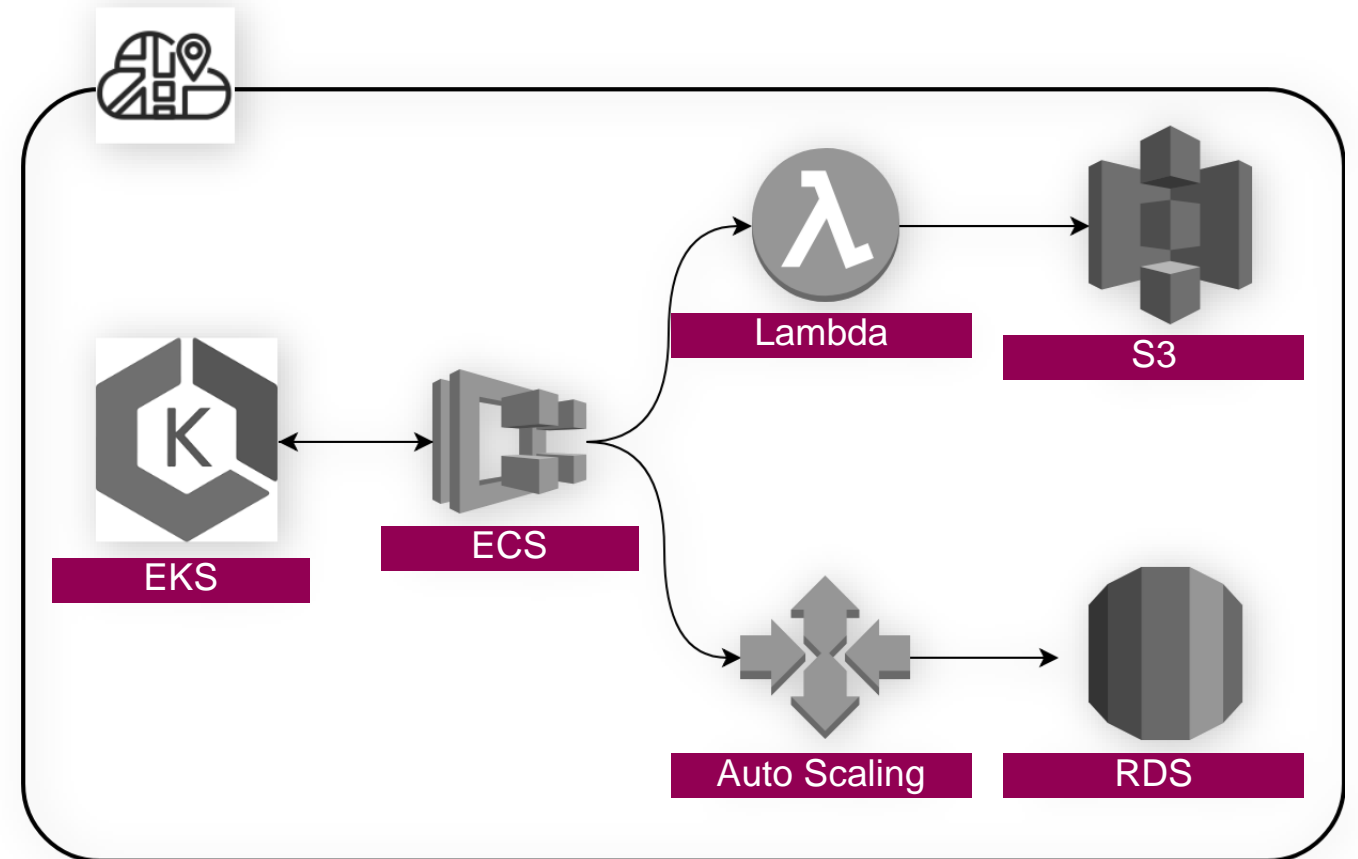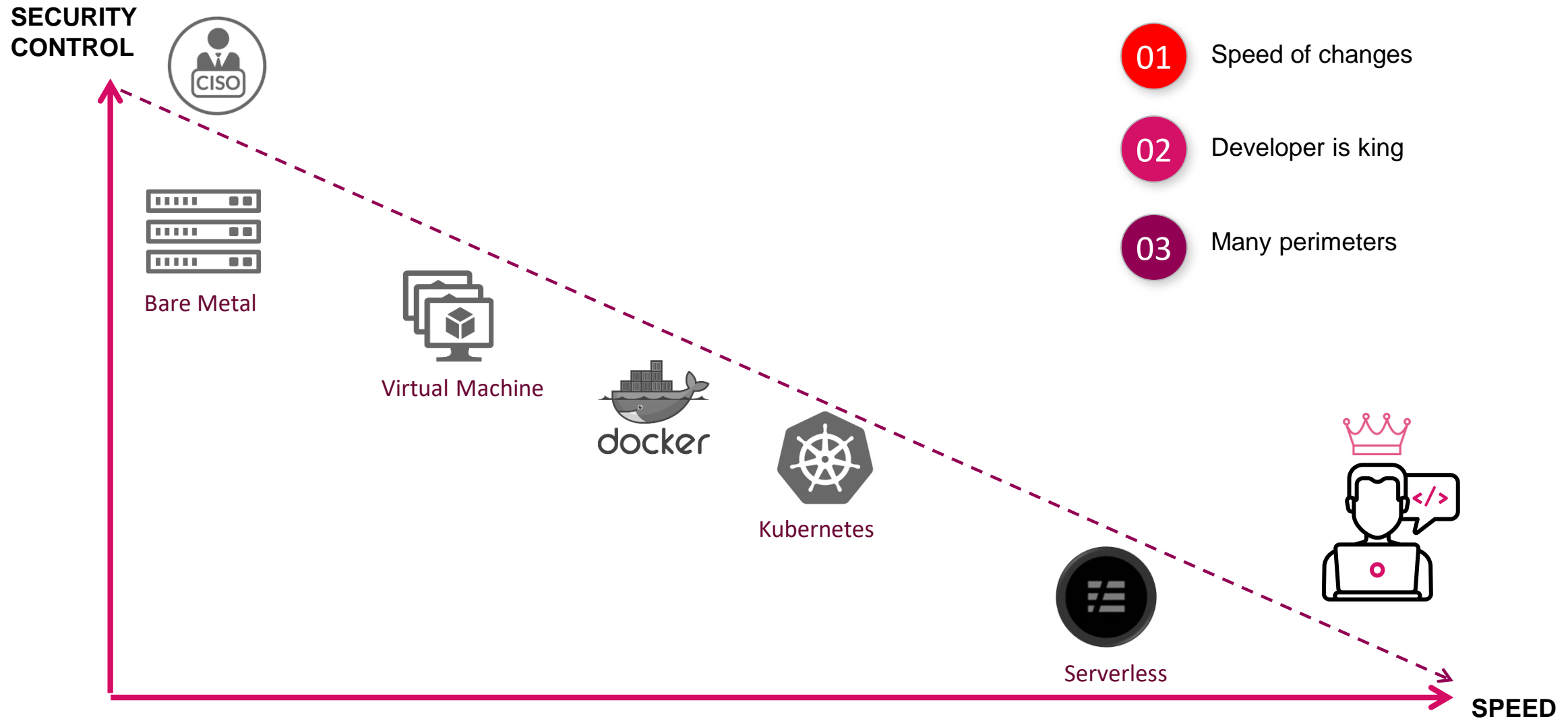
Modern Cloud Applications

It's all about Agility

01 Pay for what you use

02 Procurement in seconds

03 Small pieces of code that build an application

04 A click away from production

EKS

ECS

Lambda

S3

Auto Scaling

RDS

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SOFTWARE TECHNOLOGIES

As Technology Evolves, CISO Losing Control

SECURITY CONTROL

Bare Metal

Virtual Machine

docker

Kubernetes

Serverless

SPEED

01 Speed of changes

02 Developer is king

03 Many perimeters

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SOFTWARE TECHNOLOGIES

Secure The Cloud

Advanced Cloud Security Challenges

- Increased attack surface
- Lack of visibility and tracking
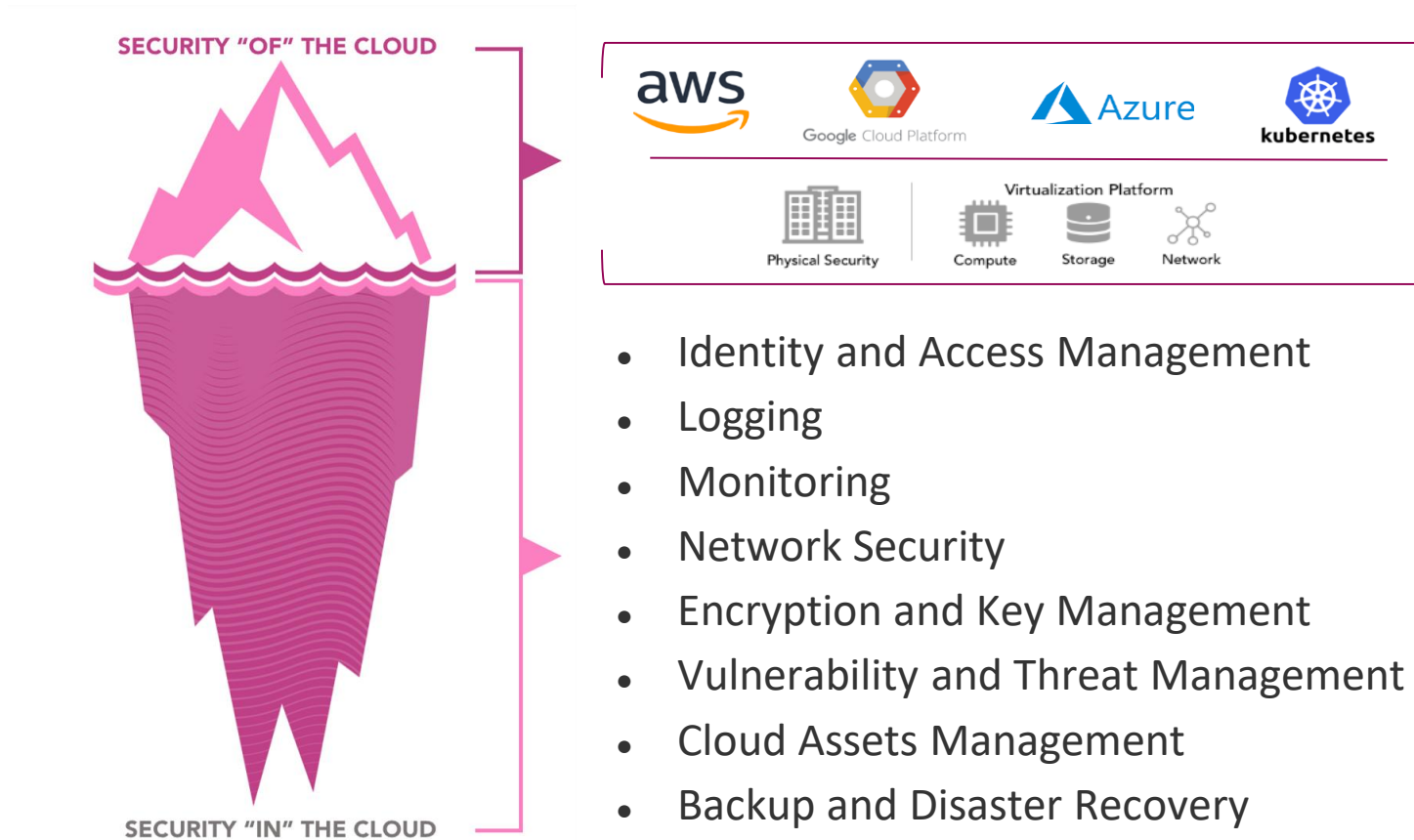- Ever-changing workloads
- DevOps, DevSecOps and automation
- Granular privilege and key management
- Multi-cloud environment
- Compliance and regulations

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SOFTWARE TECHNOLOGIES

Security is a Shared Responsibility

SECURITY "OF" THE CLOUD

SECURITY "IN" THE CLOUD

- Identity and Access Management
- Logging
- Monitoring
- Network Security
- Encryption and Key Management
- Vulnerability and Threat Management
- Cloud Assets Management
- Backup and Disaster Recovery

https://medium.com/beanfield-metroconnect/cloud-security-the-shared-responsibility-model-d6ddd09d4aa2

Shared Responsibility

Customers have their choice of security configuration **IN** the Cloud

CUSTOMER DATA

PLATFORM, APPLICATIONS, IDENTITY & ACCESS MANAGEMENT

OPERATING SYSTEM, NETWORK & FIREWALL CONFIGURATION

CLIENT-SIDE DATA ENCRYPTION & DATA INTEGRITY AUTHENTICATION	SERVER-SIDE ENCRYPTION (FILE SYSTEM AND/OR DATA)	NETWORKING TRAFFIC PROTECTION (ENCRYPTION INTEGRITY, IDENTITY)

Cloud Provider is responsible for the security **OF** the Cloud

SOFTWARE	COMPUTE	STORAGE	DATABASE	NETWORKING

HARDWARE/GLOBAL INFRASTRUCTURE	REGIONS	EDGE LOCATIONS
	AVAILABILITY ZONES	

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SOFTWARE TECHNOLOGIES

Cloud Security Threat Landscape
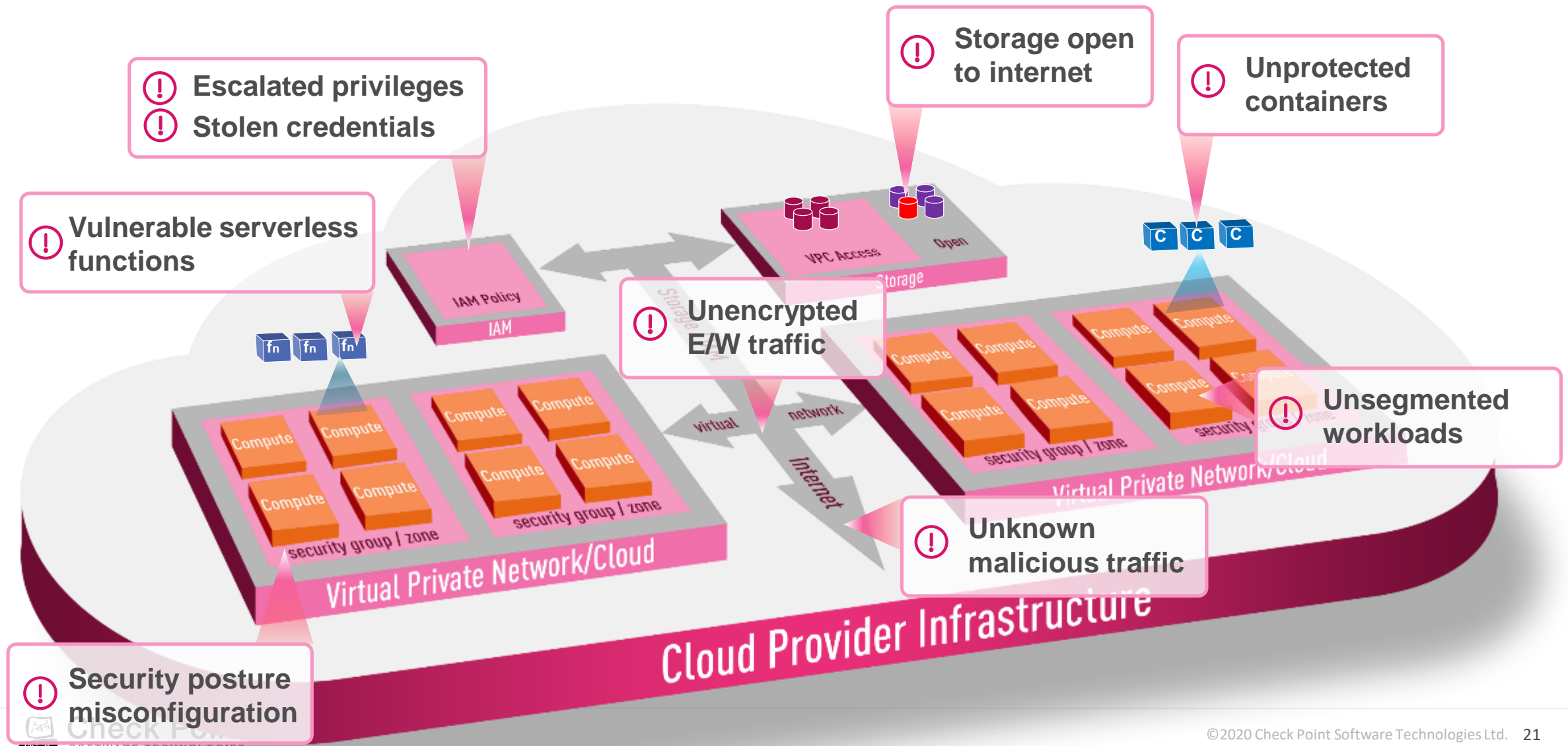
Why do you need a cloud security blueprint?

Build your house of straw or sticks?

The big bad wolf will huff and puff and blow your house down!

Plan your cloud security with best practices from a trusted advisor?
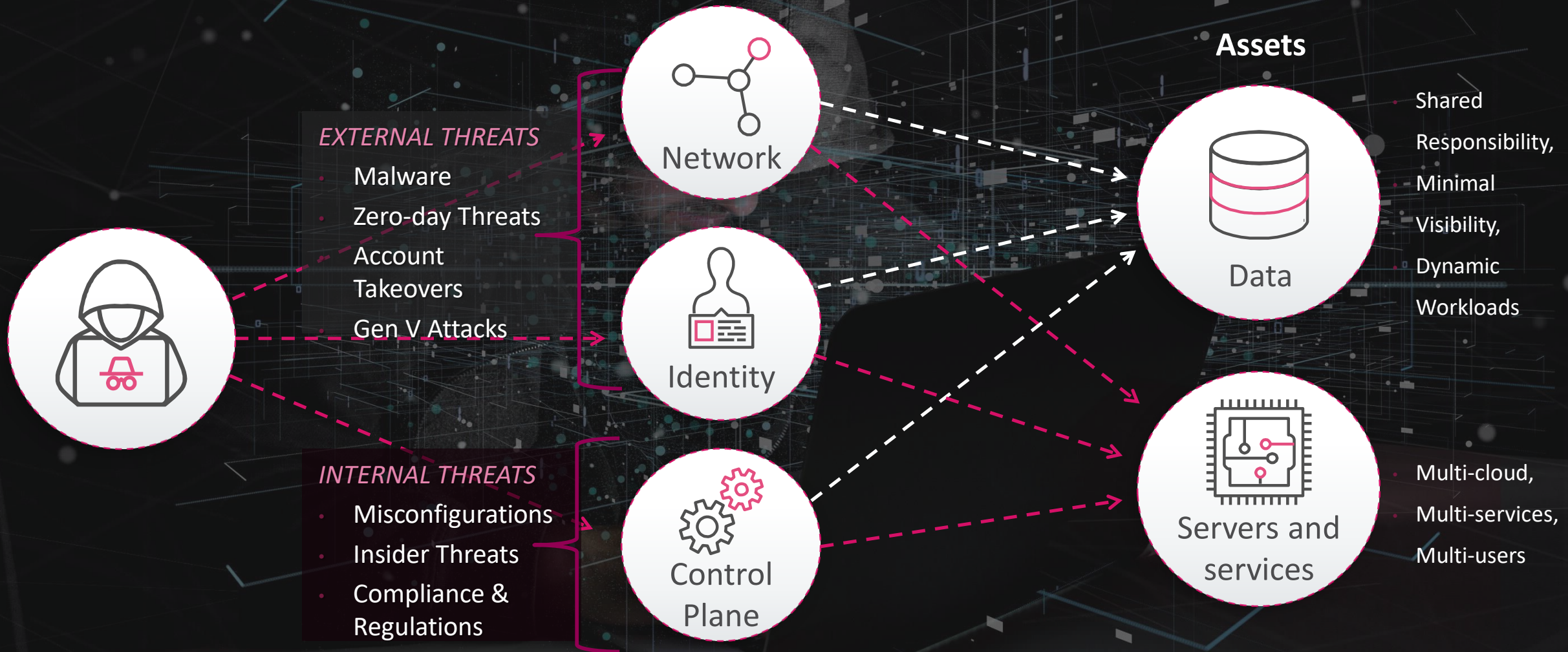
Solid, industry-leading cloud confidence!

Cloudguard Family

THE CLOUD ATTACK SURFACE

Surface of Attack

Assets

EXTERNAL THREATS
- Malware
- Zero-day Threats
- Account Takeovers
- Gen V Attacks

Network

Identity

INTERNAL THREATS
- Misconfigurations
- Insider Threats
- Compliance & Regulations

Control Plane

Data

Servers and services

- Shared Responsibility,
- Minimal Visibility,
- Dynamic Workloads

- Multi-cloud,
- Multi-services,
- Multi-users

NETWORK SECURITY WITH CLOUDGUARD

Network

1 Deploy the right architecture
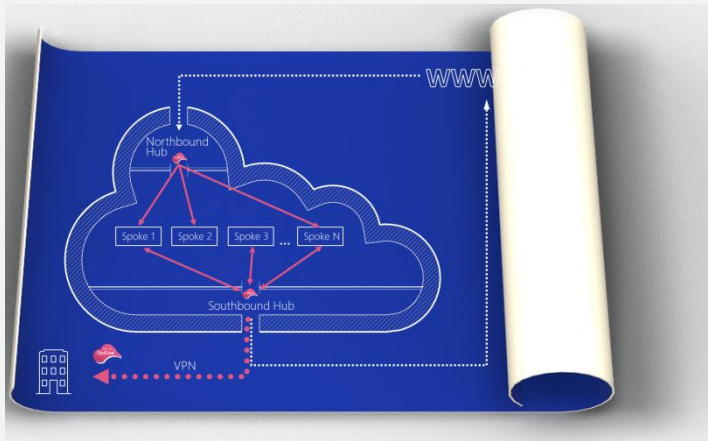
2 Protect the network data plane

3 Protect the network control plane

Cloud Security Blueprint

Forensic Analysis

Advanced Threat Prevention

Application and Data Security

Next Generation Firewall

Access Rules

CloudGuard IaaS Gateway for public and private clouds
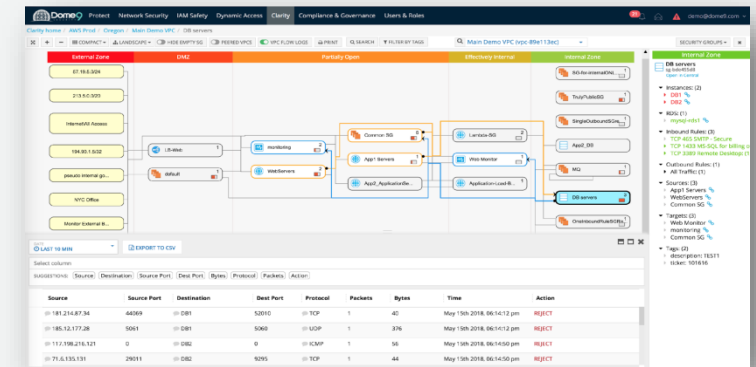
CloudGuard Dome9 – Clarity and Compliance Engine

IDENTITY PROTECTION WITH CLOUDGUARD

Identity

1 Identity Protection for SaaS and IaaS

2 Privileged Identity Protection with Dome9

3 Phishing Protection for SaaS

Block account takeovers with robust, transparent authentication
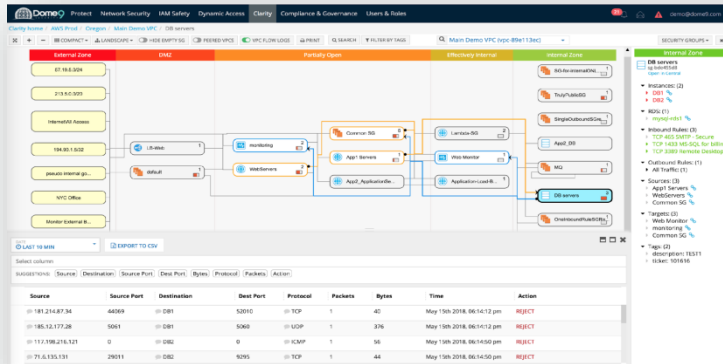
Protect privileged accounts from causing catastrophic consequences

Leverage AI engines to block sophisticated phishing attacks that bypass other solutions

CONTROL PLANE SECURITY WITH CLOUDGUARD

Control Plane

1 **Visibility of Assets and Security Posture**

2 **Continuous Compliance**

3 **Cloud Security Intelligence and Remediation**

Quickly identify misconfigurations
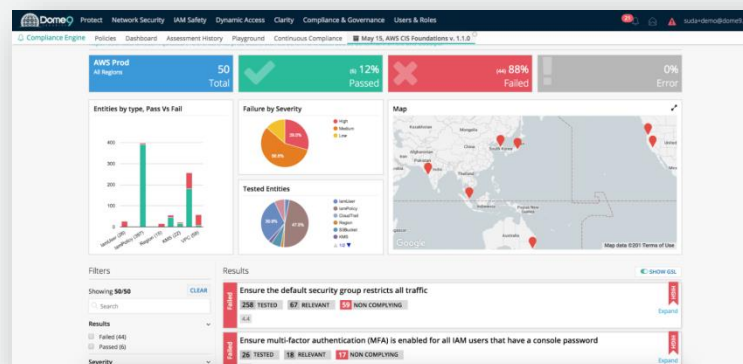
Continuous assess and enforce security best practices and compliance standards
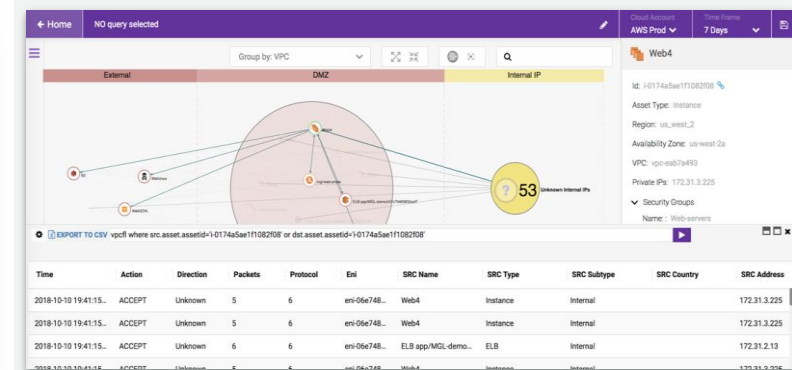
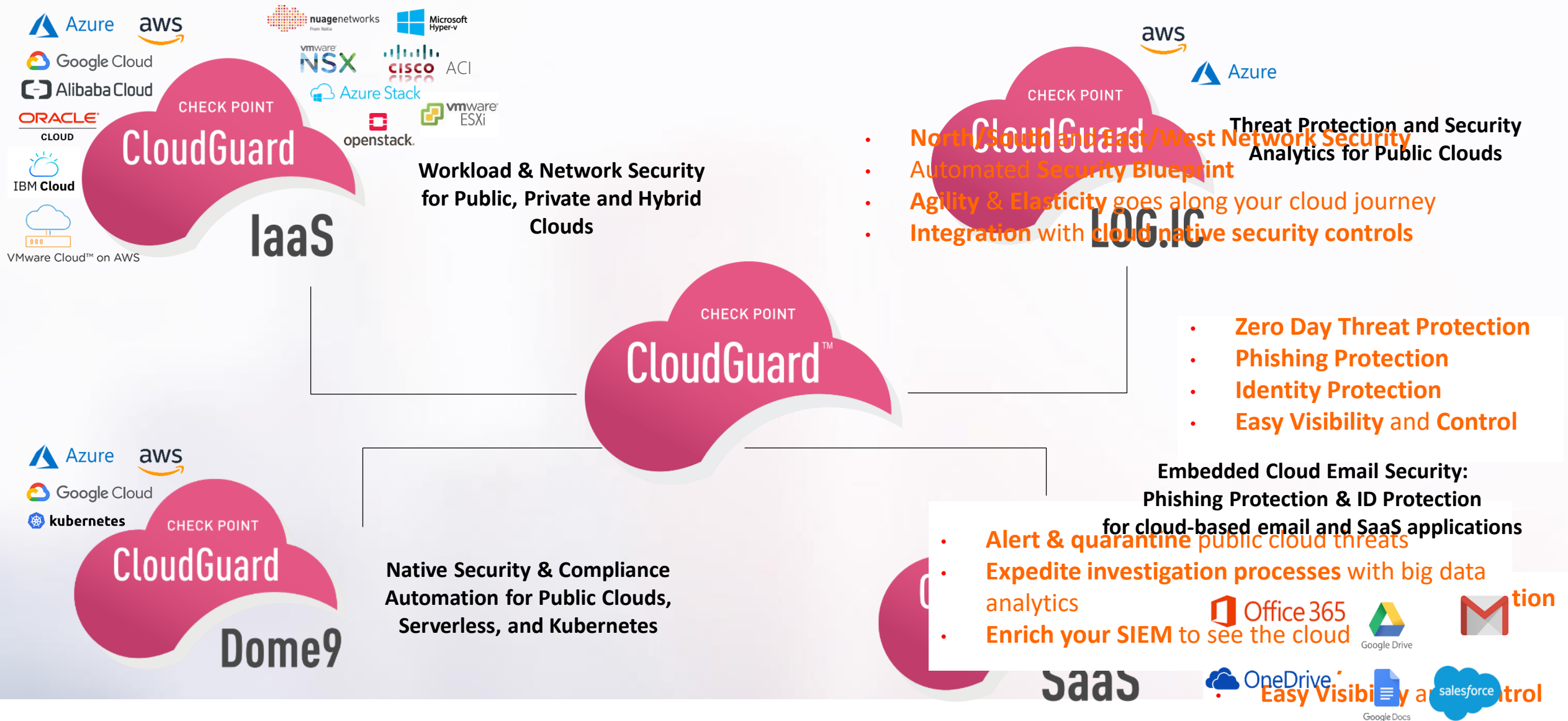Protect against threats and intrusions with actionable threat intelligence

THE CLOUDGUARD PORTFOLIO

CHECK POINT CloudGuard IaaS

Workload & Network Security
for Public, Private and Hybrid
Clouds

CHECK POINT CloudGuard LOG.IC

Threat Protection and Security
Analytics for Public Clouds

- North/South and East/West Network Security
- Automated **Security Blueprint**
- **Agility & Elasticity** goes along your cloud journey
- **Integration** with cloud native security controls

CHECK POINT CloudGuard™

- **Zero Day Threat Protection**
- **Phishing Protection**
- **Identity Protection**
- **Easy Visibility** and **Control**

Embedded Cloud Email Security:
Phishing Protection & ID Protection
for cloud-based email and SaaS applications

CHECK POINT CloudGuard Dome9

Native Security & Compliance
Automation for Public Clouds,
Serverless, and Kubernetes

- **Alert & quarantine** public cloud threats
- **Expedite investigation processes** with big data analytics
- **Enrich your SIEM** to see the cloud

SaaS

Easy Visibility and **Control**

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