

Modern Cloud, Modern Threats: Navigating Security Challenges Today



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Akamai in Numbers





Akamai: Protection against the broadest of attacks

	Zero Trust Security				Application & API Security			Infrastructure Security
	Ransomware	Supply Chain Attacks	Malicious Employee Behavior	Malware, Infection & Spread	API Abuse & Attacks	App Exploits & Abuse	Business Logic Abuse	DDoS & DNS Attacks
	Microsegmentation				App & API Protector			Prolexic
ions			Enterprise Application Access (EAA)		API Security	Malware Protection	API Security	Network Cloud Firewall
Solutions				Secure Internet Access (SIA)		Client-Side Protecti	on and Compliance	Akamai DNS
						Brand P	rotector	
						Bot Manager		
						Content Protector	Account Protector	
						Prolexic		



Data breach

Legacy systems

API Security

APTs Cloud Security

Shadow IT

Ransomware

Audits

Data Privacy

Third-party risks

Risk management

Demonstrating ROI

Business

IoT Security

DDOS Attacks

App Dependency

Most
Common
Cybersecurity
Challenges

Talent shortage

Budget constraints

Cost of breach

Technical

Regulatory Compliance

Inadequate Incident Response

Supply Chain Attacks

Zero-day vulnerabilities

Brand reputation

Business Continuity

Regulatory Compliance

Weak authentication

Aligning security with business goals

Cloud Challenges



Identity & Access risks



Misconfiguration & poor governance



Supply chain & service exploits



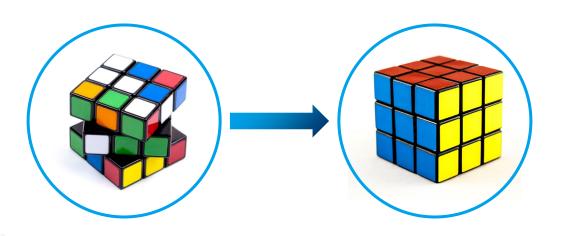
Modern Attacks techniques



Emerging Threats



Security that adapts, protects, and persists



Today's Reality

Flat networks (VPCs)

Security groups (NSGs/ASGs)

Fragmented visibility (Clouds/OnPrem/K8s/PaaS..)

Ideal State:

Segmented

Smart controls

Secured automatically

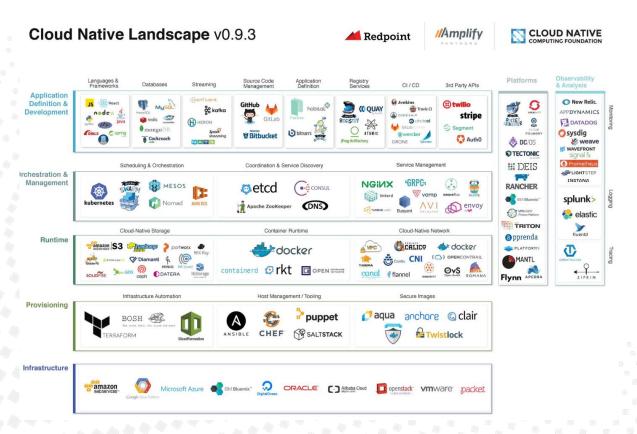




Clouds: Simplicity or Complexity?

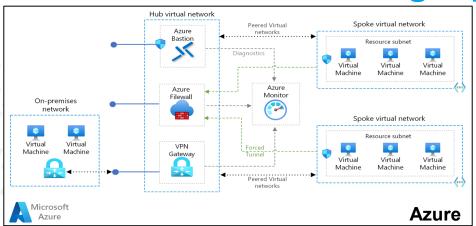
Clouds introduce a wide landscape

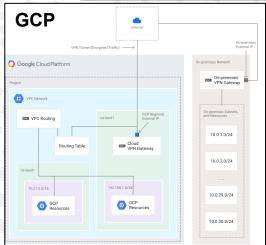
https://landscape.cncf.io/

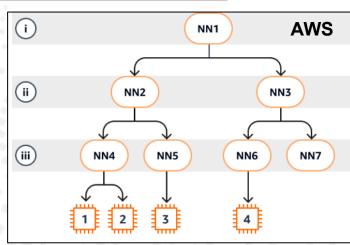


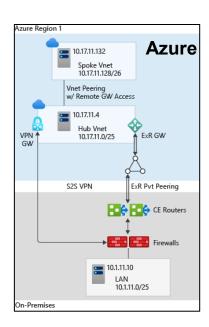


Traditional cloud networking topology



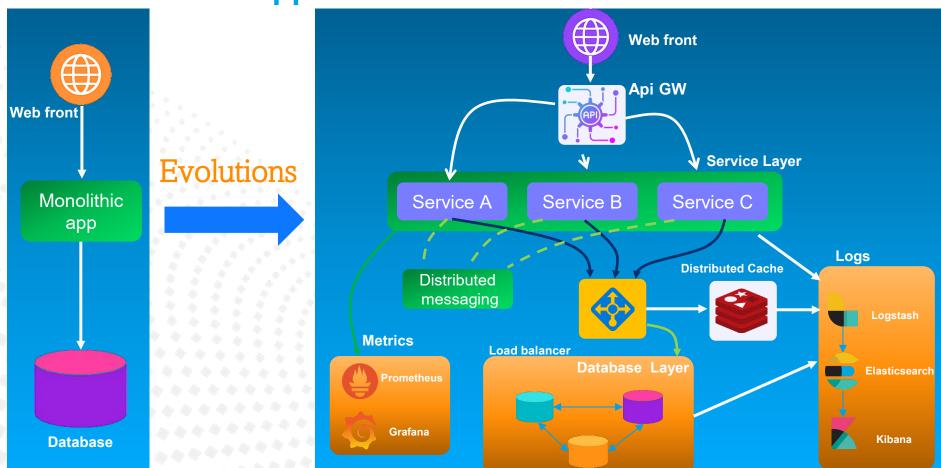








How modern applications are built?



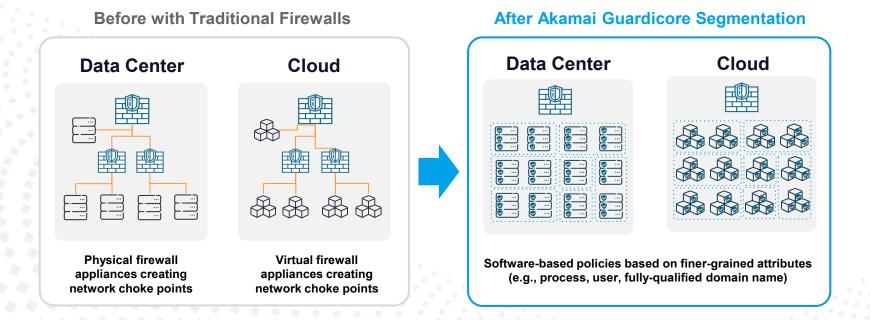


Our Solution:

Akamai Guardicore Segmentation



What is microsegmentation and why does it matter?

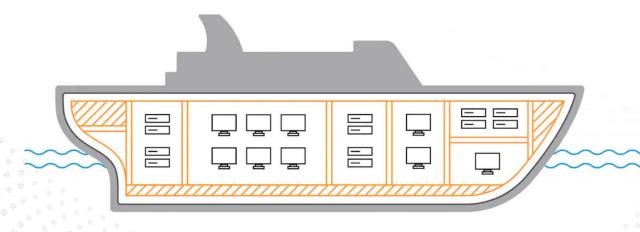


It doesn't replace your firewalls — it closes the gaps between them.



What is microsegmentation and why does it matter?

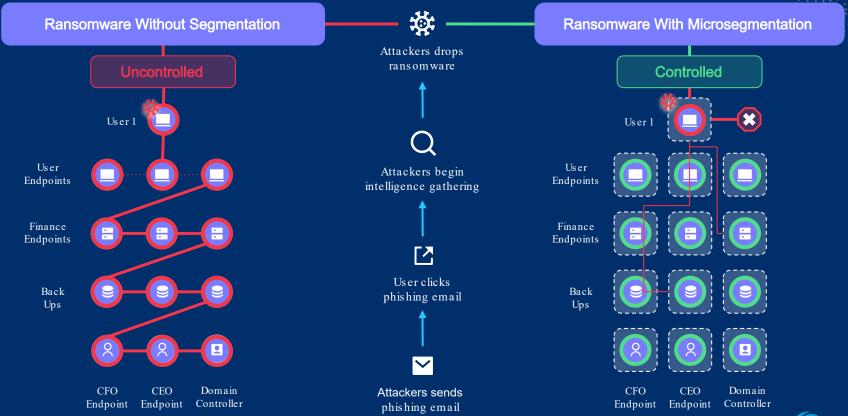
Microsegmentation is the practice of creating fine-grained security policies that control how individual workloads, applications, and devices communicate—regardless of their location of underlying infrastructure.



It doesn't replace your firewalls — it closes the gaps between them.



Microsegmentation: Controlling Lateral Movement

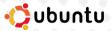




Benefits if Software-Based Approach vs Infrastructure Approach

- No infrastrcuture changes required and no application downtime.
- Faster Time-to-value
- Less resources required to deploy and manage
- Significantly lower costs
- Process-Level visibility and enforcement
- Infrastructure Agnostic and Broad OS Coverage





























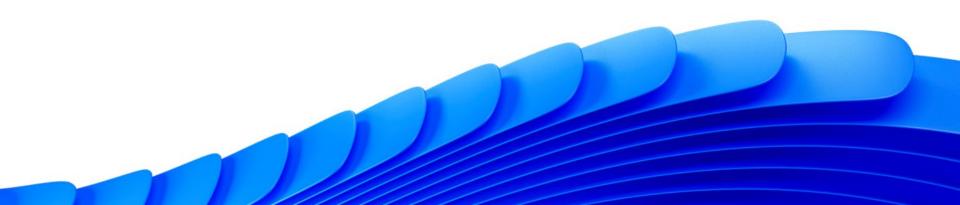


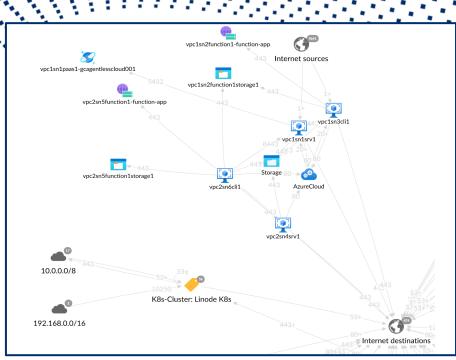






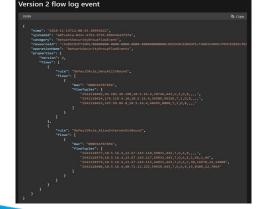
Security steps





Discover all connections

No matter where the assets seat and the type of assets



Discovering



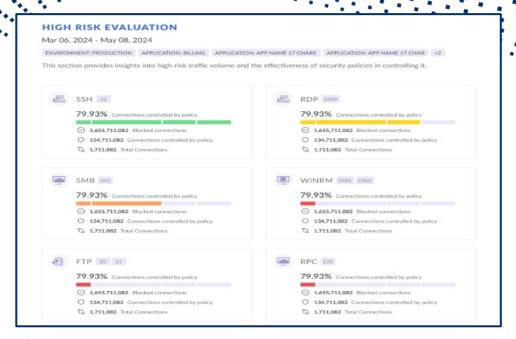


Analyze all the connections between assets. No matter where the assets seat and the type of assets



Analysing





Suggest optimal policies Create policies easily

Suggesting



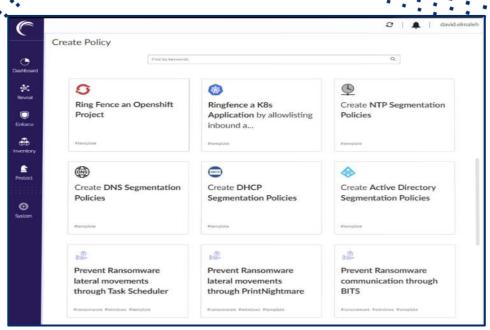


Limit the scope of a Breach Manage critical exposures first



Limiting

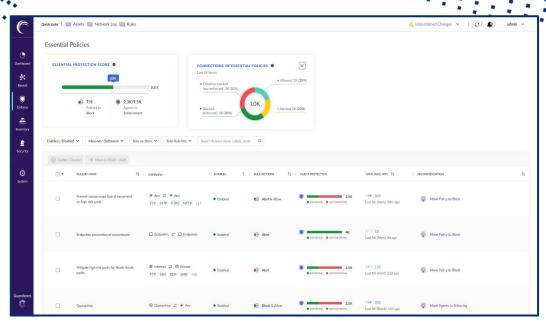




Decide what to block / Allow Wizard to build policies (Zero Trust template)

Deciding

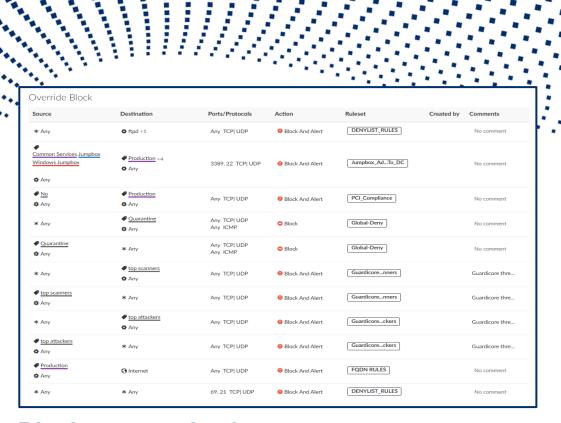




Inscrease security posture
Apply suggestions to improve security

Increasing





Block communications

Based on real trafic, define accurate policies



Blocking





Questions?

