

# THE 3 SCROLLS OF MICROSEGMENTATION NINJUTSU SCROLL I THE LATERAL CONTROL OF THE OKCAMZATION'S OVERALL SECURITY Victims of recent ransomware and APT have said. "You can't fight attackers moving laterally with organizational silos." When a company network is divided into silos, infiltrators can enter from unexpected places - such as foreign branches or supply chains of countries or affiliated companies - and access the company's assets by moving laterally. Recent IT infrastructures tend to be divided into silos, but microsegmentation can let you visualize and manage in a unified manner. Microsegmentation can provide a wide lateral view Development Confidential<sup>®</sup> International Sales Information system system bases Cloud On-premises \*The systems can be distributed across the cloud and on-premises SCROLL I STMPLTFY MULTICLOUD NETWORK MANAGEMENT Do you move IT assets across locations such as on-premises, AWS, and Azure? After choosing the optimal infrastructure for each system, communication from the hybrid cloud and multicloud environments between those infrastructures can be complex. You can free yourself from needing to control complex communication from IP addresses by setting labels, which are not dependent on location. By using microsegmentation, network administrators no longer have to manage communication policies for all of the different firewalls and infrastructures.

Traditional access control

10.1.1.1/32 172.16.1.2/32 192.168.1.0/24 192.168.99.0/24

Infiltration

beains

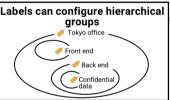
Perimeter

security



Front end server Database server Confidential data Tokyo office building

Location independent labels



Important

are further

into smaller

stems such as

ctive Directory

microsegmented

# SCROLL 3

Inside network

Segmentation BLOCKS attackers moving around

# POLICY-BASED FILTERING TO BLOCK MALICIOUS ACTORS

Microsegmentation is useful for rule-based internal communication control because it has a clear policy of determining where connections can start and end, and can reject unmanaged traffic. This can stop even attackers that can bypass detection-based solutions such as EDR and NDR. This internal access control has been provided by internal firewalls and router ACLs. However, they don't work with the modern hybrid environment. That's why microsegmentation is getting popular. Similar to how EDR evolved from antivirus solutions, microsegmentation is an evolution of internal firewalls.

Sales system

Development

Confidential

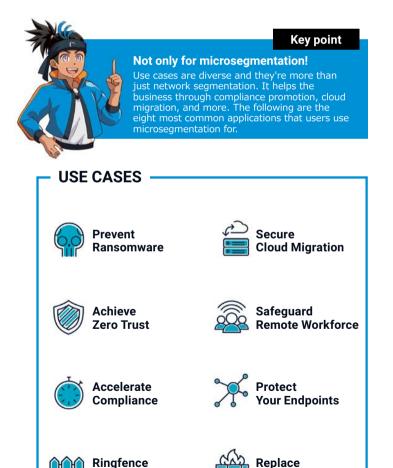
system



# **Akamai Guardicore Segmentation**

# Stop Lateral Movement with Granular Visibility and Microsegmentation Controls

Enterprise IT infrastructure is still evolving from traditional on-premises data centers to cloud and hybrid cloud architectures, with a blend of platforms and application deployment models. Although this digital transformation is helping many organizations achieve greater business agility, reduce infrastructure costs, and enable remote work, it is also creating a larger and more complex attack surface that does not have a well-defined perimeter. Each individual server, virtual machine, cloud instance, and endpoint is now a possible point of exposure; with the prevalence of threats like ransomware and zero-day vulnerabilities, attackers are becoming more adept at moving laterally toward high-value targets when - not if - they find a way in.



**Critical Applications** 

# **KEY SOLUTION CAPABILITIES**



## Granular, AI-Powered Segmentation

Implement policies in a few clicks using AI recommendations, templates for remediating ransomware and other common use cases, and precise workload attributes like processes, users, and domain names



# **Real-Time and Historical Visibility**

Map application dependencies and flows down to the user and process levels on a real-time or historical basis



### Broad **Platform Support**

Cover modern and legacy operating systems across bare-metal servers, virtual machines, containers, IoT, and cloud instances



Add rich context with a customizable labeling hierarchy and integration with orchestration tools and configuration management databases



**Internal Firewalls** 

## Multiple **Protection Methods**

Integrate threat intelligence, defense, and breach detection capabilities to reduce incident response time

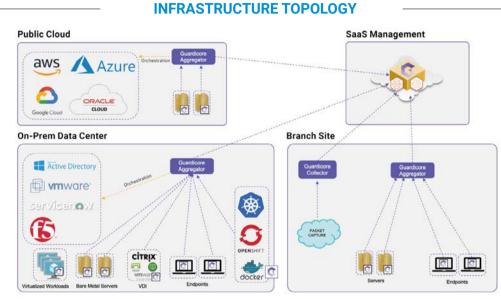
# How It Works

Akamai Guardicore Segmentation collects detailed information about an organization's IT infrastructure through a mix of agent-based sensors, network-based data collectors, virtual private cloud flow logs from cloud providers, and integrations that enable agentless functionality. Relevant context is added to this information through a flexible and highly automated labeling process that includes integration with existing data sources, such as orchestration systems and configuration management databases.

### Key point

Microsegmentation can be developed anywhere! You can deploy anywhere, whether it is on the cloud, onpremises, or on containers. By

managing separate environments in a unified manner, you can greatly reduce costs and work.



Most customers utilize SaaS management, but on-premises management options are also available.



### **Network Map**

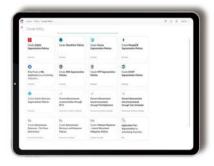
The output is a dynamic map of the entire IT infrastructure that allows security teams to view activity with user- and process-level granularity on a real-time or historical basis. These detailed insights, combined with AI-powered policy workflows, make the creation of segmentation policies fast, intuitive, and based on real workload context.



### Key point

### Visualize your distributed network!

One feature of Akamai Guardicore Segmentation is the ability to visualize internal communication. It can let you see where signals are coming from and where they are going in real time, or what transactions happened in the past retroactively. It can optimize application migration and reduce time spent on incident response.



### Templates

Policy creation is made easy with prebuilt templates for the most common use cases. Policy enforcement is completely decoupled from the underlying infrastructure, so security policies can be created or altered without complex network changes or downtime. In addition, policies follow the workload no matter where it resides — in on-premises data centers or public cloud environments. Our segmentation capabilities are complemented by a sophisticated set of threat defense and breach detection capabilities, as well as threat hunting services provided by Akamai's security researchers.



# We can answer any questions you have

Visit our Akamai Guardicore Segmentation page to:

- Request a product demonstration
- See new features and case studies
- Register for workshops on Zero Trust and microsegmentation

Akamai protects your customer experience, workforce, systems, and data by helping to embed security into everything you create — anywhere you build it and everywhere you deliver it. Our platform's visibility into global threats helps us adapt and evolve your security posture — to enable Zero Trust, stop ransomware, secure apps and APIs, or fight off DDoS attacks — giving you the confidence to continually innovate, expand, and transform what's possible. Learn more about Akamai's cloud computing, security, and content delivery solutions at <u>akamai.com</u> and <u>akamai.com</u>/ blog, or follow Akamai Technologies on <u>Twitter</u> and <u>LinkedIn</u>.