

AKAMAI CUSTOMER STORY

Communications Infrastructure Provider

Stops ransomware in its tracks with Akamai



Prevention of potential
\$1 million in losses



Prevention of potential
shadow IT



East-west traffic visibility

The customer

This U.S. communication infrastructure provider ensures businesses and residents stay connected in today's fast-paced world. It's responsible for an extensive network of cell towers and fiber networks that customers rely on in their daily lives.

The challenges

Limited endpoint visibility and control

With over 6,000 laptops deployed across the organization, the IT security team had growing concerns over the fleet's risk to the broader IT environment. Additionally, ongoing issues with shadow IT activity by some of the company's power users needed to be addressed.

While some security measures had been put into place by the end-user computing team, they were limited. None could granularly control system access for users or limit peer-to-peer communication to stop malware propagation effectively — and the latter was a significant concern at the organization.

To address these gaps, stakeholders wanted to improve the business's security posture by introducing a solution that would allow them to extend visibility and granular segmentation controls to employees' devices. This would also grant them the ability to observe and prevent unauthorized lateral movement.

Selecting a solution

Security stakeholders had been considering Akamai Guardicore Segmentation for some time, and they were interested in using it for multiple cybersecurity use cases. The organization decided on a phased approach to see great potential in the granular visibility and straightforward policy creation process.



Communications
Infrastructure
Provider

Location

United States

Industry

Communications infrastructure

Solution

[Akamai Guardicore Segmentation](#)

Key impacts

- Preventing ransomware
- Stopping shadow IT
- East-west traffic visibility



Since Akamai's software-defined segmentation policies aren't tied to the underlying infrastructure, the provider had the option to tackle any number of security initiatives. However, with the employee laptop fleet identified as high-risk, the team prioritized deploying Akamai agents to its endpoints.

Akamai Guardicore Segmentation

Once the project began, the rollout of Akamai's streamlined Windows agent to the organization's computers went quickly. This extended process-level visibility to user access and laptop activity.

The IT security team was then able to create and manage security controls for these endpoints centrally, all based on accurate environment data. They then promptly set up several policies — including an alert around specific Microsoft Remote Desktop Protocol (RDP) activities, including failed login attempts.

Granular visibility in action

A short time after deployment, the policy configured to report unusual RDP-related activity delivered a flurry of alerts. It was quickly apparent that a threat actor was attempting a brute-force attack, as failed login after failed login was observed.

The IT security team closely monitored the situation, and as attackers continued their assault, decided to make the call and block RDP on every endpoint with an Akamai agent. In just a few clicks, they created and enforced a new segmentation policy that disabled RDP, stopping the attacker before a single endpoint was compromised.

Ransomware stopped in its tracks

During the postmortem process, the security team quickly realized all indicators pointed to a major and well-known ransomware threat actor.

If the campaign had been successful, the attackers would likely have attempted to proceed with their usual tactics, encrypting anything in reach before issuing a ransom note. Because of the provider's organizational size and current trends, the threat actors' demands would have certainly exceeded \$1 million. This would have come with significant added disruption and downtime if business-critical assets, such as the ERP system, had been compromised.

However, thanks to the fast-acting security team and Akamai, there was no impact on the organization from the attempted attack.

Stopping shadow IT

In addition to stopping external threats, the team was also able to address internal challenges using the platform. Before Akamai, the limited endpoint visibility made it easier for some users to circumvent official processes, executing activities on their own that were not compliant with the organization's policies. The new insight and ability to enforce security controls on endpoints allowed IT security to curb shadow IT. This included preventing members of the DevOps organization from spinning up new resources on their own without going through official channels for authorization.

Expanding protection with Akamai

For the communications infrastructure provider, protecting endpoints is only the beginning. It plans to explore more new features, roll out Akamai to its data center, secure its Citrix environment, and apply third-party access controls for external vendors.

With the flexible nature of the platform, the team has the assurance that they can extend protection against advanced threats anywhere in the environment — no matter how their mergers and acquisitions strategy or digital transformation initiatives unfold in the future.

Please visit akamai.com/guardicore for more information.