April 2023



Sanitized DNS for Microsoft Azure Workloads

Attackers & malware leverage recursive DNS to compromise an organization, including attacks on Microsoft Azure workloads

To protect these valuable assets you need visibility & control for all Microsoft Azure external recursive DNS traffic, ensuring that only clean and safe DNS requests are resolved - all malicious requests are proactively blocked

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Akamai Secure Internet Access + Azure Firewall

Sanitized DNS for Azure Workloads



Simplicity

Simple integration with Azure Firewall - DNS traffic is redirected to Akamai's global cloud security platform



Proactive Security

DNS requests checked against real-time threat intelligence, proactively blocking malicious requests



Insights

All DNS requests are logged for analysis, investigation & compliance



Sanitized DNS for Microsoft Azure Workloads

Microsoft Azure Firewall & Akamai Secure Internet Access

- Sanitized DNS only safe and legitimate DNS traffic is resolved
- Malicious DNS requests including DNS exfiltration proactively blocked with real-time threat protection
- Create DNS allow or deny lists
- All DNS requests logged for analysis and investigation
- Secures your Azure DNS traffic with DNS over TLS (DoT) and DNSSec

Benefits

- Improves Azure workload security & reduces risk by blocking access to risky domains
- 100% visibility & logging for all external resources requested
- Helps meet compliance & audit requirements



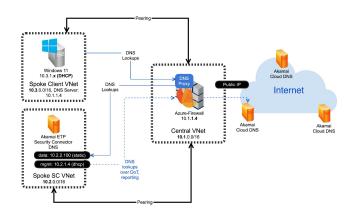
Key Features

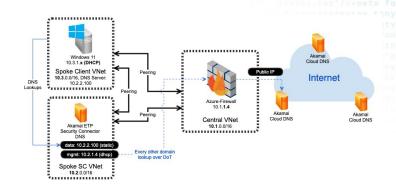
Feature	
Deployment	Quick and simple deployment
Proactive Security	Real-time threat protection to proactively block malicious DNS requests including DNS exfiltration - only safe and legitimate DNS traffic is allowed
Flexible Policies	Create DNS allow or deny lists to control DNS resolution
Threat Alerts	Threat alerts are available directly in Secure Internet Access and can be integrated into your SIEM
Logging	DNS requests are logged for analysis, investigation and compliance
Secure DNS	DNS traffic is secured end-to-end with DNS over TLS (DoT) and DNSSec



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Simple Activation & Deployment





Sanitized DNS for an
Azure Virtual Network

- Virtual Networks where Virtual Instances are deployed need connectivity to the Akamai Security Connectors (Peering).
- The Virtual Network DNS Server configuration points to the Akamai Security Connector(s) IP address.
- Akamai <u>DNS threat events</u> will include the private IP address of each Virtual Machine to help with remediation.

Sanitized DNS directly through an Azure Firewall

- The Azure Firewall is acting as a <u>DNS Proxy</u>.
- The Virtual Network DNS Server is configured with the Azure Firewall's private IP address.
- The Primary DNS log will be <u>Azure Firewall DNS logs.</u>
- Akamai <u>DNS threat events</u> will need correlation with Azure Firewall DNS logs to identify the Virtual Machine that made the request.



Akamai in DNS

The world's largest provider of DNS services

Authoritative DNS



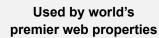
Provided authoritative DNS since 1999



DNS is the core of Akamai Content Delivery



200 of Fortune 500 companies use Akamai



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Recursive DNS



Provided recursive DNS since 1999



World's largest provider of DNS to ISPs & MNOs



Over 7 Trillion DNS requests resolved daily



Over 120 DNS POPs globally



Akamai's Real-time Threat Intelligence



Akamai Data

- Up to 30% of total web traffic
- 7 trillion daily DNS gueries
- Akamai Security product logs



Third-Party Data

- Raw threat data
- Premium threat intelligence



Public Data

- WHOIS data
- Registrar data

Automated statistical, trend, and pattern analysis of structured and unstructured data



Data scientists fuse, clean, and scour data for actionable threat intelligence



Akamai CSI

- Big Data analytics deliver cloud-based threat intelligence that is continuously updated
- Multi-layered approach of machines and people
- Fueled by enterprise and consumer traffic that is augmented with third-party sources
- · Feedback if an engine detects a new threat, it is added to the threat intel so all customers are protected
- Lookback customer logs for past 7 days are compared against most recent threat intel and new alerts created



Useful Information

- Secure Internet Access <u>Azure Marketplace</u> listing
- Secure Internet Access <u>Product Brief</u>
- Secure Internet Access <u>Product Page</u>
- Azure Security Connector setup instructions
- Example Terraform Script





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