BLUECAT™

Gaining Visibility & Control

Automation is driving new efficiencies across today's networks.Unfortunately, this wave has not yet reached most core network infrastructure services. Most back-end systems like DNS, DHCP, and IPAM are still largely managed through manual processes.

> *It's like yelling, 'there's a fire in our town' but not knowing which house it is. I can't send a fire truck to every house and check it. And I can't just dump water on the entire town.*
> - Security Analyst, Healthcare Provider

The Solution - Cisco Umbrella & BlueCat DNS Edge

To stay ahead of network threats and provide continuous delivery of mission-critical services, network operations and security teams need to work smarter. With 60% of network traffic flowing through internal DNS, and attacks using DNS continuing to rise, teams must gain better visibility into east/west network traffic and uncover threats faster to avoid business disruption.

## Gain Visibility & Control Across Internal & External DNS Traffic

BlueCat DNS Edge with Cisco Umbrella expands the boundaries of network defenses providing unprecedented visibility into all network traffic. The solution enables customers to strengthen security and network defenses by reducing complexity, expediting response times, optimizing security investments and improving the effectiveness of security operations teams.

Eliminate Blind Spots

Network operations and security teams are challenged with correlating endpoint threats that move laterally within the network. These teams must quickly look back at the DNS attribution chain for suspicious endpoint activity connecting North-South and East-West traffic. Together BlueCat DNS Edge and Cisco Umbrella provide rich DNS data to answer the most critical questions in network security: Who, What, When, and Why.

How It Works

Using BlueCat DNS Edge, customers deploy a lightweight, cloud-managed DNS servicer (or "service point") at the edge of the network. As a client-facing solution, BlueCat DNS Edge serves as the first-hop for DNS query resolution for endpoints. It logs every DNS request, from every endpoint, and applies policies based on any number of criteria.
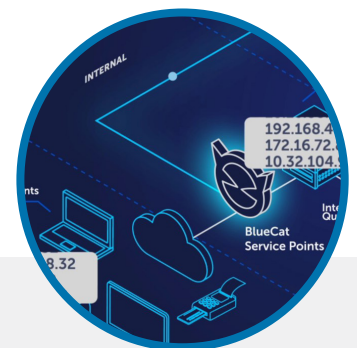

Benefits

Improved Network Performance
Reduce network congestion using DNS Edge as both a caching and forwarding server.

Secure Access To Critical Internal Resources
Apply security policies to stop attacks and prevent the spread of malware.

Prevent Outages & Downtime
Enable faster remediation with real-time analytics and forensics of DNS traffic.

Improved Customer Experience
Accelerate application performance and reliability for hybrid environments.

Simple To Deploy, Easy To Manage

- Apply Cisco's powerful threat detection and content filtering capabilities to any end point on the network, protecting them from malware, bad domains and other threats.

- See the source of every outbound DNS query - down to the individual endpoint IP address, providing greater context and allowing for more granular security policies.

- See every outbound DNS query - including those resolved by caching servers inside the network. This provides more context into the scope of a threat, and can help identify and remediate cache poisoning techniques.

- See every internal "East-West" query - including those that never go through the Cisco Umbrella cloud security platform. This speeds remediation and helps identify 'patient zero' in any cyber attack.

- Apply policies to internal "East-West" traffic in order to lock down critical internal services and intellectual property.

BlueCat DNS Edge service points sit at the network edge, capturing all DNS queries and source IP addresses and passes them directly to Cisco Umbrella for policy management.
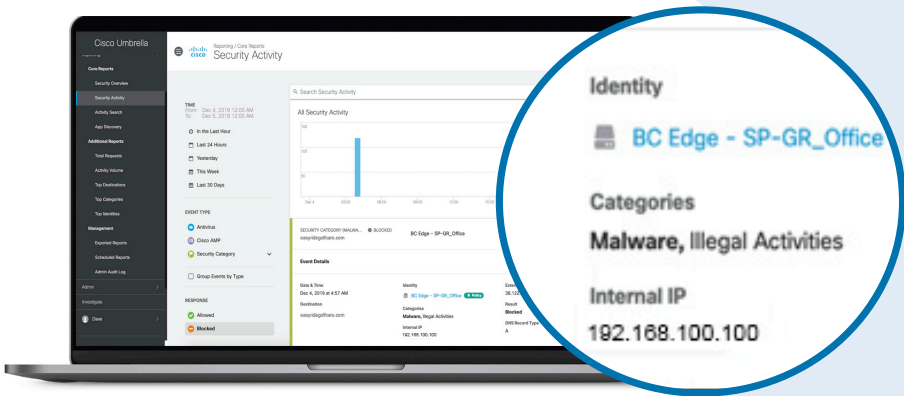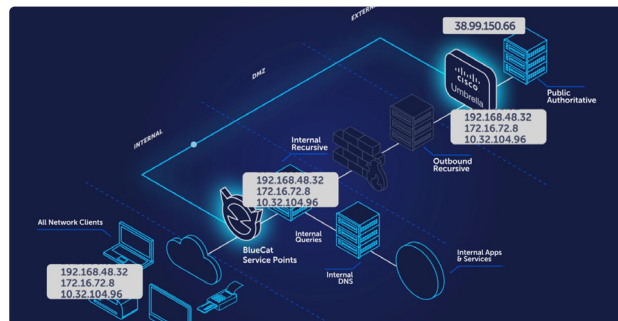
Cisco Umbrella's industry leading Threat Protection provides threat alerts to security teams. Quickly triangulate the endpoint by looking back at the attribution chain shared between BlueCat DNS Edge and Cisco Umbrella.

With BlueCat DNS Edge, investigate the lateral movement of suspect endpoints by capturing all internal DNS queries and apply internal policies.
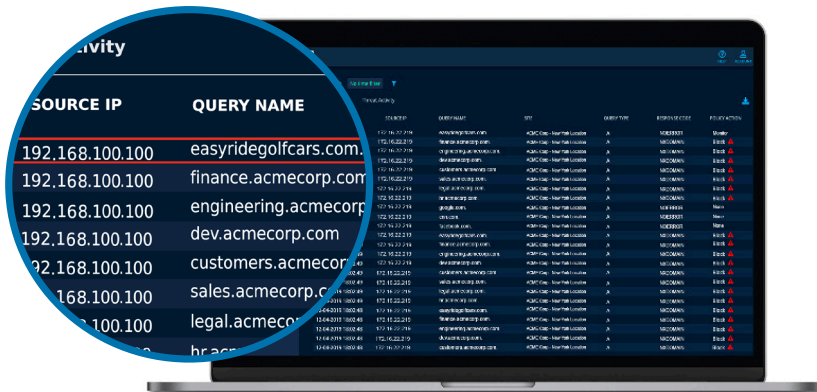
Next Steps

Get in touch with a BlueCat representative to future proof your network.

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