Edge for networking

Intelligent automation for complex forwarding requirements

## Getting past DNS resolution latency issues

To achieve highly performant and available DNS, network teams need an automated way to configure the shortest and most secure resolution path. Without complete visibility and control at the first hop of any DNS query, administrators can neither keep up with rapid changes to DNS configuration in multicloud environments or relieve data center bottlenecks to resolve queries for endpoints over wide and distributed networks.

The solution: BlueCat Edge

BlueCat Edge adds a much-needed layer of visibility, control, and detection for corporate DNS. Edge gives network and IT teams unprecedented access to DNS query data that they can use to establish smarter network policies, optimize traffic, and meet stringent compliance and logging requirements. Edge also plays a critical role in the overall security of corporate networks, allowing security teams to leverage the DNS data that Edge captures as yet another layer of intelligence and protection.

Benefits

- **Improve performance**
  Provision multiple optimized resolution paths, and simplify overlapping zones and DNS resolution paths to improve network performance.

- **Prevent downtime**
  Increase the resilience of critical infrastructure by resolving hybrid and multicloud DNS with highly available and fault tolerant service points.

- **Confident migrations**
  Simplify migration from legacy systems using intelligent forwarding to mitigate downtime risks.

- **Deploy anywhere**
  Deploy Edge service points on virtual or physical appliances and in any cloud environment to ensure DNS service availability.

- **Complete context**
  Consistently log and merge contextual data—including policy description, action, and status—to all queries for resolution analysis and debugging.
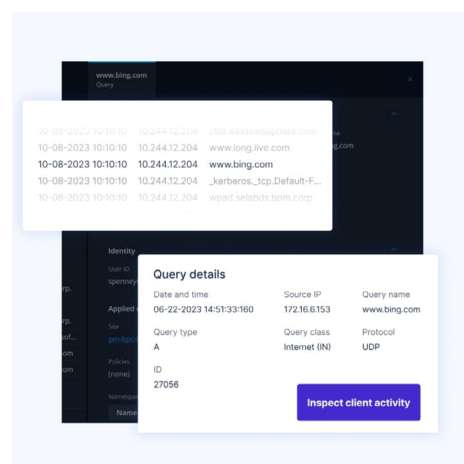
Unprecedented visibility and control

As the first hop of any DNS query, Edge works to intelligently direct DNS traffic, tame conditional forwarding rules, block DNS queries based on network and security policies, and help monitor and collect all DNS query and response information for diagnostics and investigations.

Edge service points

Edge service points, illustrated in the graphic below, are first-hop DNS resolvers that intelligently apply security policies and forwarding rules to every query—to ensure DNS traffic moves through the cloud safely and optimally.

✓ **Deploy anywhere**
Deploy service points on BDDS, in virtual environments, and in cloud (AWS, Azure, GCP) environments to handle any client load

✓ **Increase visibility**
Capture and log any internal and external queries from any client, branch, or user globally.

✓ **Complete control**
Control all DNS resolution paths while detecting malicious behavior and restricting access to critical internal resources.
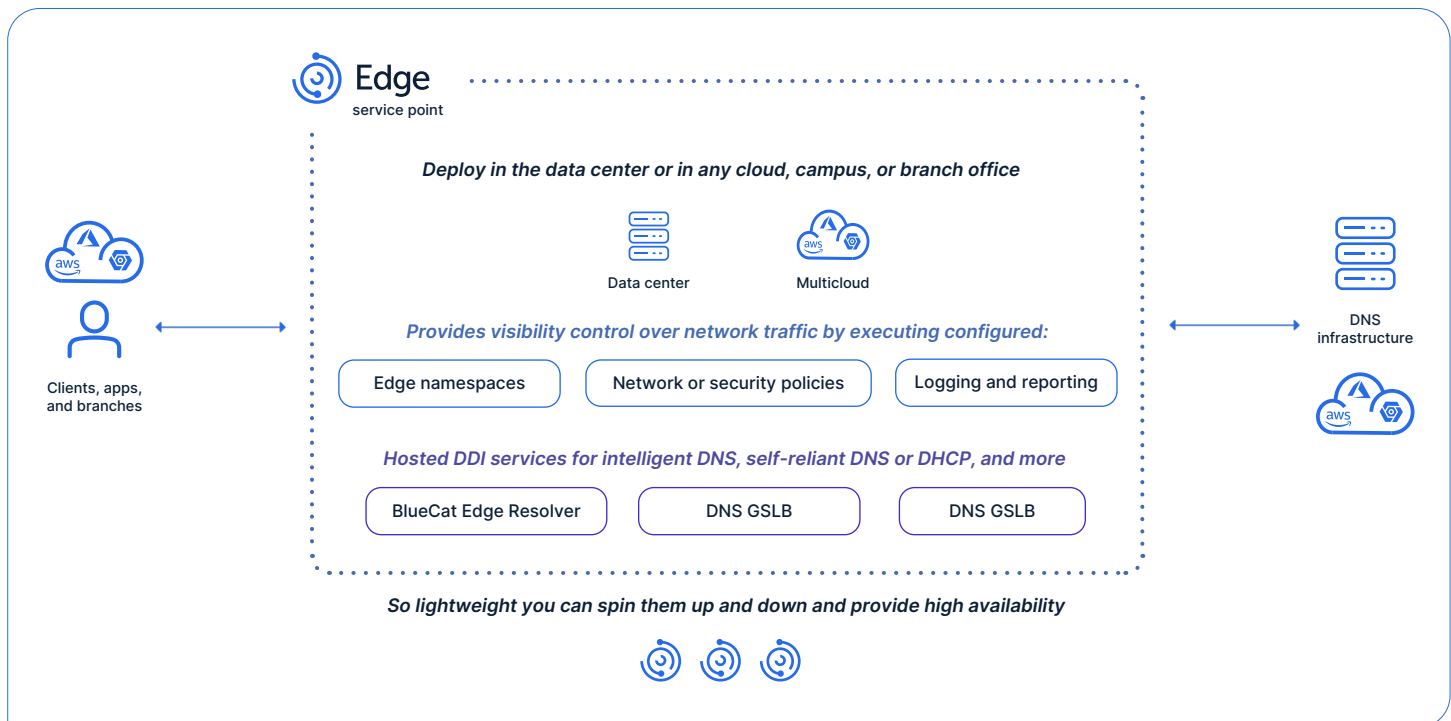

Figure 1. Edge resolution path

Figure 2. Edge service point capabilities

Features

Intelligent forwarding using namespaces
Route remote office or client traffic by match and exception domain lists with the most appropriate resolution path.

Policy configuration
Allow admins to apply policies to block, redirect, or monitor DNS requests based on clients and resources being accessed or detected security issues.

Zero-touch deployment
Deploy unlimited numbers of virtual service points with hosted services, without making changes to your existing DNS infrastructure and at no extra cost.

Edge Resolver
Simplify and accelerate DNS resolution for hybrid and multicloud environments.

Logging and reporting
Tame big data problems with powerful query log filters, graphical analysis, and exporting DNS data to popular SIEMs.

DNS GSLB
Improve DNS reliability with network health checks and easily customize answer priority to optimize DNS traffic for multinetwork resolution and multiregion disaster recovery.

BlueCat's Intelligent Network Operations (NetOps) solutions provide the analytics and intelligence needed to enable, optimize, and secure the network to achieve business goals. With an Intelligent NetOps suite, organizations can more easily change and modernize the network as business requirements demand.

Headquarters
4100 Yonge St. 3rd Floor, Toronto, ON, M2P 2B5
Phone: 1-416-646-8400 I 1-866-895-6931

bluecat.com

Next steps
Learn how Edge can help you boost visibility, control, and threat detection on your network.

Contact us

DS-Edge-06-16-2025

Accessible Document