Edge for networking

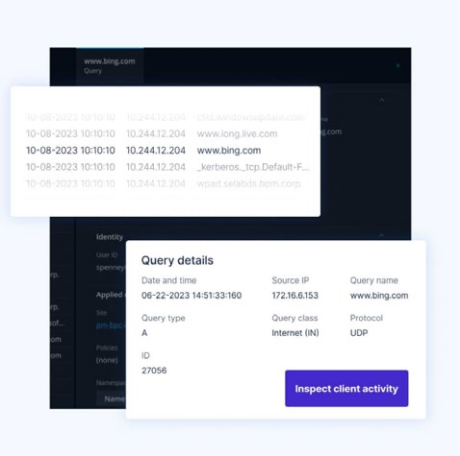
Intelligently direct DNS traffic and tame conditional forwarding rules

Overcome DNS resolution bottlenecks and reduce latency

In a hybrid and multicloud world, DNS queries can potentially resolve to multiple locations. To achieve highly performant and available DNS, network teams need an automated way to configure the shortest and most secure resolution path and reduce latency. Without complete visibility and control at the first hop of any DNS query, network admins cannot keep up with rapid changes to DNS configuration in multicloud environments or relieve data center bottlenecks to resolve queries for endpoints across wide, distributed networks.

The solution: BlueCat Edge

BlueCat Edge adds a much-needed layer of visibility, control, and detection for DNS. 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.



Services, apps, and data can reside simultaneously in different clouds and regions across different internal and external zones. Instead of manually maintaining reams of conditional forwarding rules across multiple authoritative DNS servers, Edge uses intelligent forwarding via service points to set conditions and direct queries to the right destination.

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.
- **Accessible and compliant by default**
  Edge is unconditionally compliant with WACG 2.2 AA standards to empower every user.
- **Deploy anywhere**
  To handle any client load, deploy Edge service points on BlueCat DNS/DHCP Servers (BDDSes), in virtual environments such as open-source KVM and VMware ESXi, on select Cisco platforms, and in cloud environments (AWS, Azure, and Google Cloud).

Edge service points

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

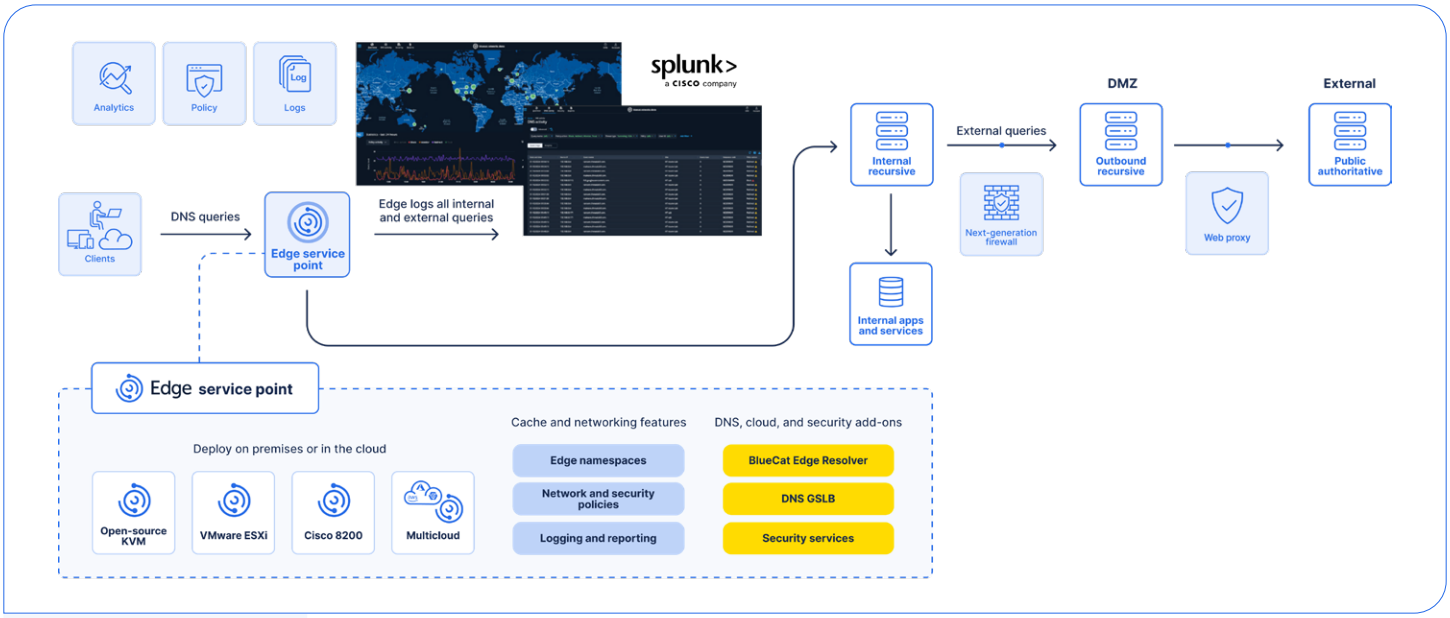


Figure 1. Edge architecture

Features

Intelligent forwarding using namespaces
Route traffic from remote offices or client networks to the most appropriate resolution path using match or exception domain lists.

Policy configuration
Admins can apply policies to block, redirect, or monitor DNS requests based on clients, resources 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.

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.

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Next steps

Learn how you can intelligently direct your nework's DNS traffic and tame conditional forwarding rules.

Learn more