

CASE STUDY

The Vinyl Cache Story: How NetActuate Powers Open Source Growth at Scale

Enabling seamless performance and global reach for open-source leaders

Vinyl Cache is a leading open-source caching solution designed for internet-scale services,

supporting major enterprises like Cloudflare, Fastly, and Rackspace. With its unique approach to HTTP traffic handling, Vinyl has become integral to efficient content delivery across the web. Recognizing the critical role it plays in powering online services, NetActuate partnered with the Vinyl Cache project to provide the robust infrastructure it needs to operate seamlessly.

CHALLENGE

Vinyl Cache required a reliable hosting partner capable of supporting its lightweight, highperformance design. The project's unique capabilities—powered by its Domain Specific Language (VCL)—enable users to tailor caching and traffic management to their specific needs. However, ensuring uninterrupted service and optimal performance for such a widely used open source project necessitated dependable, globally distributed infrastructure.

NETACTUATE SOLUTION

NetActuate brought its extensive experience in global anycast networks and edge deployments to the table, delivering an infrastructure solution tailored to Vinyl Cache's needs. By hosting the project on one of NetActuate's smallest yet high-performing virtual machines (VMs), we ensured:



Unmatched reliability

Vinyl Cache benefits from NetActuate's global footprint, ensuring consistent service delivery.



Scalability

The infrastructure is designed to handle growth, supporting the increasing demands of Vinyl Cache users.



Efficiency

Vinyl's minimalist design aligns seamlessly with NetActuate's optimized hosting environment, ensuring resource efficiency and sustainability.

RESULTS



Seamless performance

NetActuate's infrastructure ensures Vinyl Cache operates with the speed and reliability users expect no matter the scale of HTTP traffic.



Global Reach

Leveraging NetActuate's anycast network, Vinyl Cache is accessible to users worldwide with minimal latency.



Sustainable Operations

Hosting on a lightweight VM reduces resource consumption while maintaining robust performance, supporting the project's focus on efficiency and environmental sustainability.

WHAT SETS VINYL CACHE APART?

Vinyl Cache stands out in the industry for its focus on enabling user-defined features via its VCL. This flexibility allows businesses to create custom solutions for HTTP traffic handling, such as:

- Redirecting specific traffic (e.g., CNN.com visitors) with minimal coding.
- Implementing A/B testing for different browser languages with just a few lines of VCL.

With its lean codebase of 180,000 lines and rigorous quality assurance (90%+ code coverage), Vinyl Cache handles a significant portion of global HTTP traffic, proving its reliability and scalability.

ABOUT NETACTUATE

NetActuate delivers edge infrastructure and network solutions in over 45 locations worldwide, enabling customers to take control of their workloads anywhere with low latency, resiliency, and security built in. Our Open Network Edge (ONE) IaaS built on open source software and standards provides everything needed to architect cloud environments and extensible infrastructure. Choose between VMs, Kubernetes, cloud, colocation, bare metal, and storage infrastructure—all with Anycast connectivity. We offer 24x7 support, expert consulting, and flexible, open solutions engineered for scalability and performance.

READY TO GET STARTED?

To learn more about how you can get agile, scalable digital infrastructure for your industry, contact NetActuate today.

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