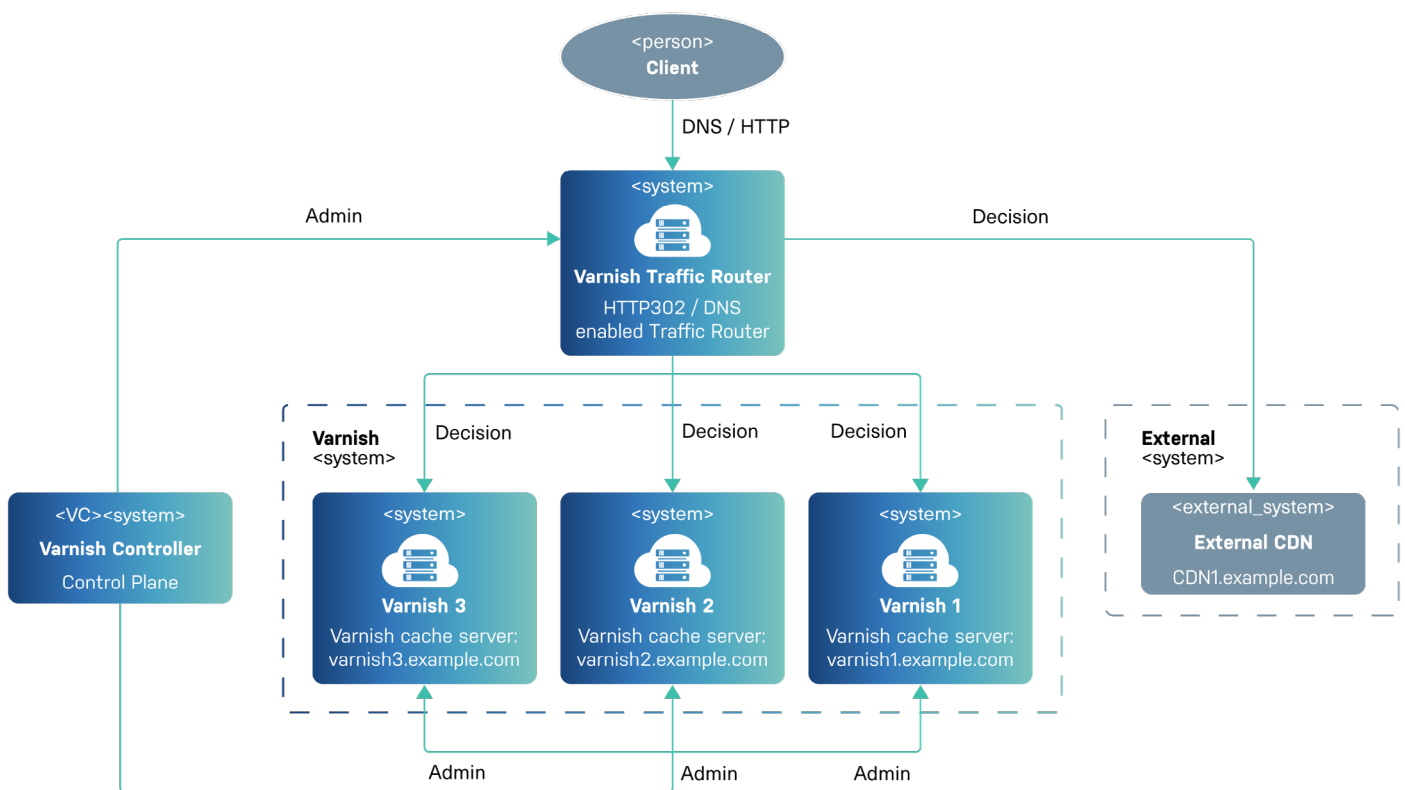# Varnish Traffic Router

VARNISH SOFTWARE

Flexible CDN request routing for excellent user experiences at scale

Traffic Router

Traffic Router ensures clients fetch content from the optimal location, for the best possible experience. Capable of both HTTP and DNS-based routing, Traffic Router can also seamlessly direct traffic to public CDNs when cache nodes are fully utilized, for uninterrupted end-user experiences at scale.

Traffic Router's flexible rule engine can base request routing decisions on:

- Distance
- Availability
- Utilization
- History

- Tags
- Random
- External

Traffic Router is integrated in the user-friendly **Varnish Controller** dashboard, making it easy for content providers to:
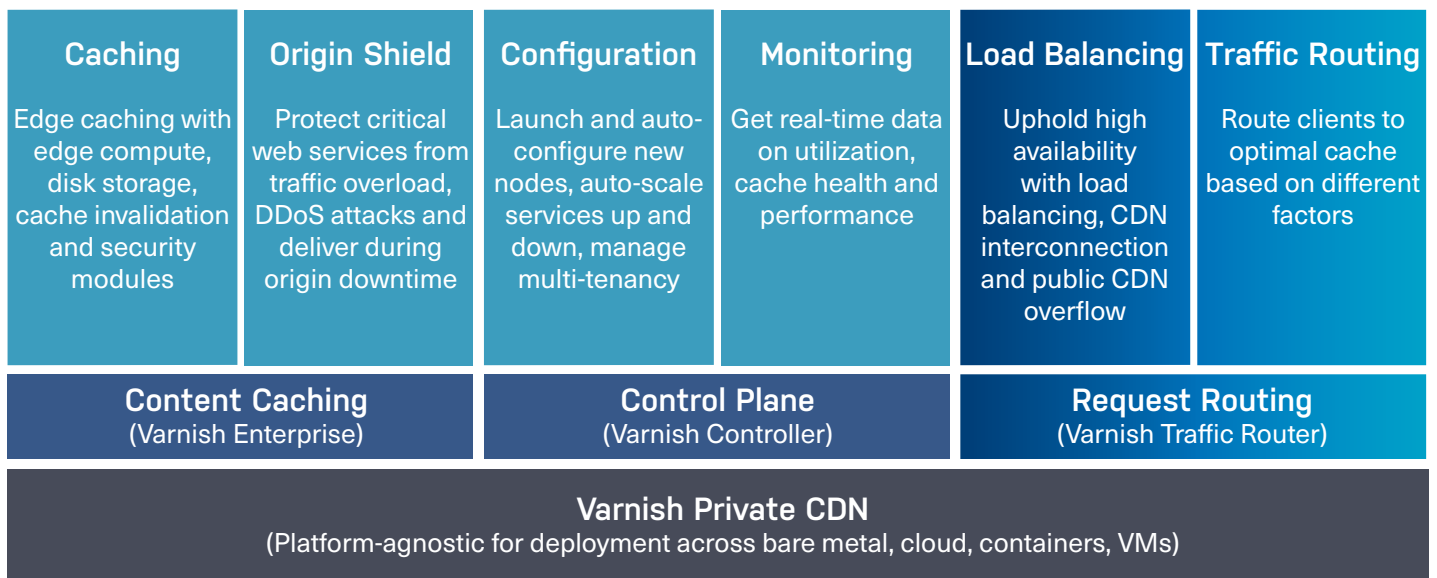
- Deliver excellent Quality of Service
- Simplify operations
- Maintain high availability
- Extend CDN coverage

Traffic Router features

- Dashboard, CLI and API
  - HTTP and DNS-based routing with PowerDNS
- Security (via Controller)
  - Authentication support via Keycloak
  - Internal communication encrypted via TLS
  - Integrated permission system
  - Detailed logging

- Active health checking
- External CDN endpoints / redirections / redirects
- Real-time monitoring
  - Utilization
  - Network Performance (Bytes in, Bytes out)
  - System Performance (CPU, RAM, Disk I/O)

The Varnish Private CDN software suite

Traffic Router is a key component of the Varnish Private CDN solution, an integrated platform for building high-performance CDNs with total control over cache placement and configuration.

Caching	Origin Shield	Configuration	Monitoring	Load Balancing	Traffic Routing
Edge caching with edge compute, disk storage, cache invalidation and security modules	Protect critical web services from traffic overload, DDoS attacks and deliver during origin downtime	Launch and auto-configure new nodes, auto-scale services up and down, manage multi-tenancy	Get real-time data on utilization, cache health and performance	Uphold high availability with load balancing, CDN interconnection and public CDN overflow	Route clients to optimal cache based on different factors

Content Caching (Varnish Enterprise)	Control Plane (Varnish Controller)	Request Routing (Varnish Traffic Router)

Varnish Private CDN
(Platform-agnostic for deployment across bare metal, cloud, containers, VMs)

About Varnish Software

Varnish is a powerful caching technology used by over 10 million websites and the world's largest content, streaming and telecommunications providers, who rely on it to provide lightning-fast web and streaming experiences for huge audiences.

Find out more at www.varnish-software.com

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