

A Global Network for Maximum Cloud Performance



Volterra's solutions for cloud networking increase the security and reliability of distributed apps and infrastructure through a high-performance private backbone and distributed app gateway. It radically improves end user experiences by both offloading applications services onto its network, as well as directly hosting apps on the network via its distributed global infrastructure.

Volterra operates a global network with distributed infrastructure through its points of presence (PoPs) deployed globally. They are interconnected through a dedicated private backbone with multiple transit and peering connections to provide high-performance direct connectivity to public clouds, enterprise private clouds and edge sites, and telecom providers. These PoPs deliver security and connectivity services, a globally-distributed control plane, and hosting for high performance and latency-sensitive workloads.

Volterra offers an industry-first distributed app gateway that provides full featured networking and security capabilities. It can be deployed at multiple different cloud providers and/or enterprise edge sites to offer a consistent, centrally-managed, and SaaS-operated set of network and security services for distributed applications.

Challenges Addressed

- Security and reliability of apps in multi-cloud environments
- Inconsistent app services across network and cloud providers
- Different network and security services across clouds
- Limited observability and operational APIs

Benefits

- Reliable and secure connectivity via private backbone
- Improved user experiences through reduced downstream latency and network-hosted apps
- Faster time to service by using consistent app, network and security services across different clouds
- Rapid deployment and operational savings via SaaS-based model with simple APIs
- Consistent security for apps and data across data centers and clouds

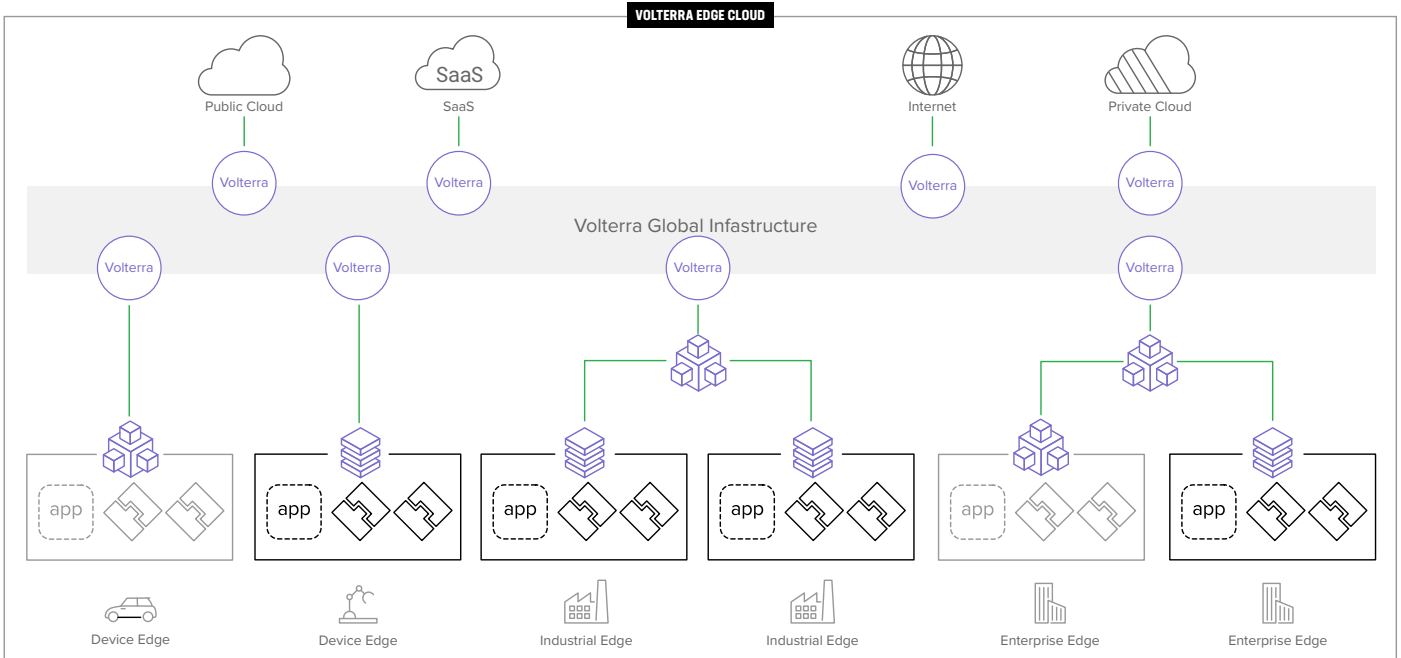


Figure 1: Volterra provides a distributed app gateway for centrally managed network and security services.

Use Cases

APPLICATION SECURITY

Internet facing applications in private or public clouds need to be reliable for global access using global load balancing or anycast services and secured from application or API attacks from automated bots, malware, etc.

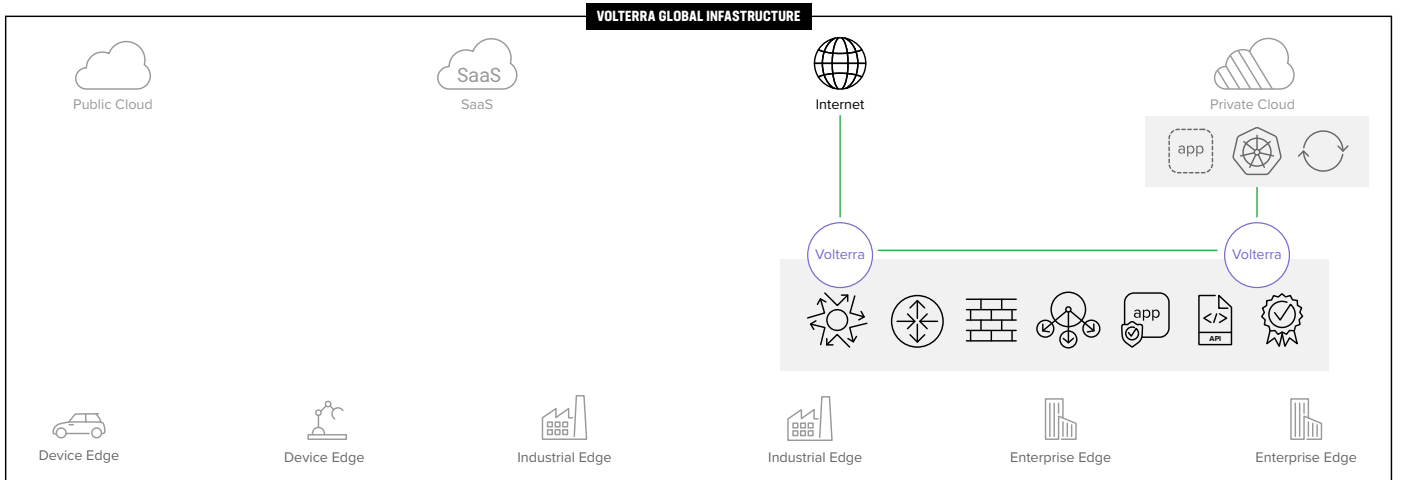


Figure 2: Volterra increases reliability and security of cloud-based applications.

NETWORK EDGE APPLICATIONS

Ability to run applications closer to users and machines to reduce network costs, improve experience, deduplicate data, etc. Multiple run-times like containers, VMs, or Javascript v8 functions using K8s APIs and IDE.

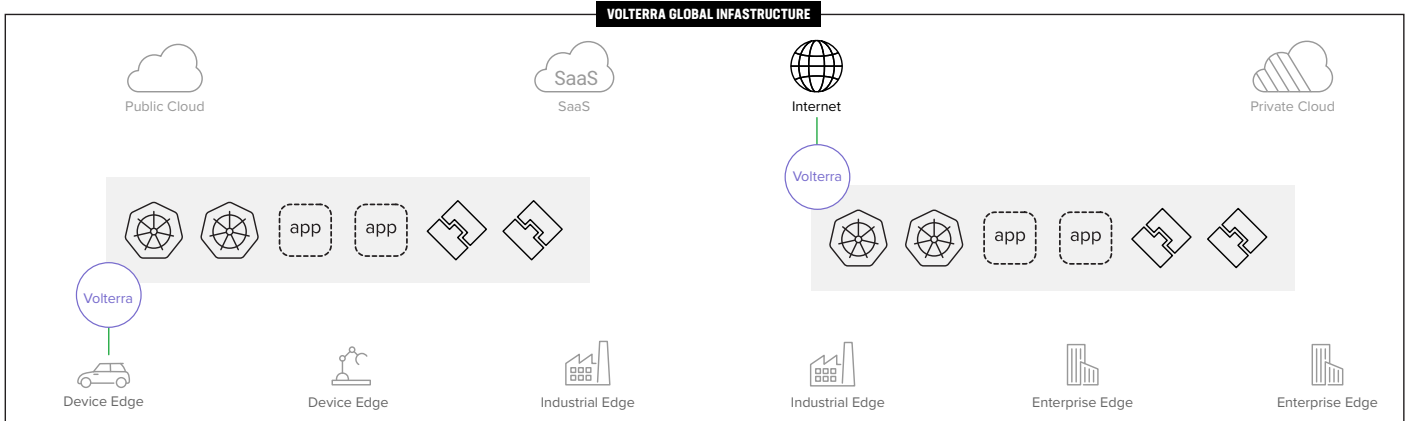


Figure 3: Running applications closer to the network edge improves user experience and reduces costs.

APPLICATION ACCELERATION

Improve user experience by reducing latency and throughput to an app backend. Ability to terminate user connections to least loaded endpoint in cloud using our globally distributed gateway.

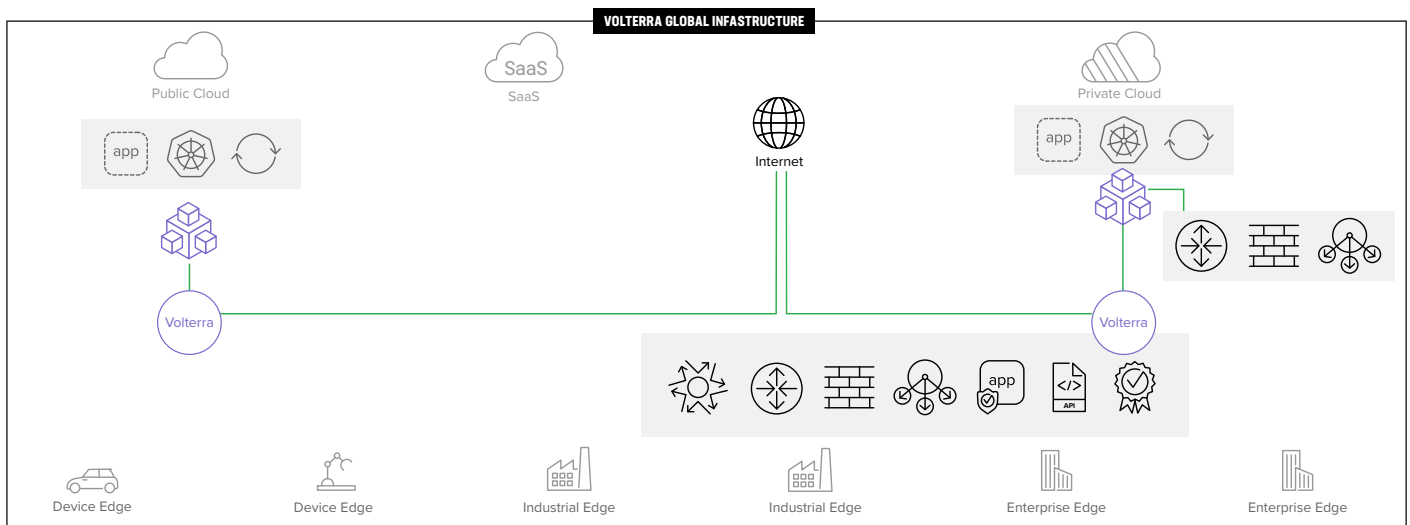


Figure 4: Volterra reduces latency and accelerates applications to improve user experiences.

SECURE CLOUD NETWORK WITH DMZ

High performance, reliable, and programmatic access to SaaS providers, public cloud providers and private clouds using a combination of Internet and dedicated private circuits across Volterra's global infrastructure.

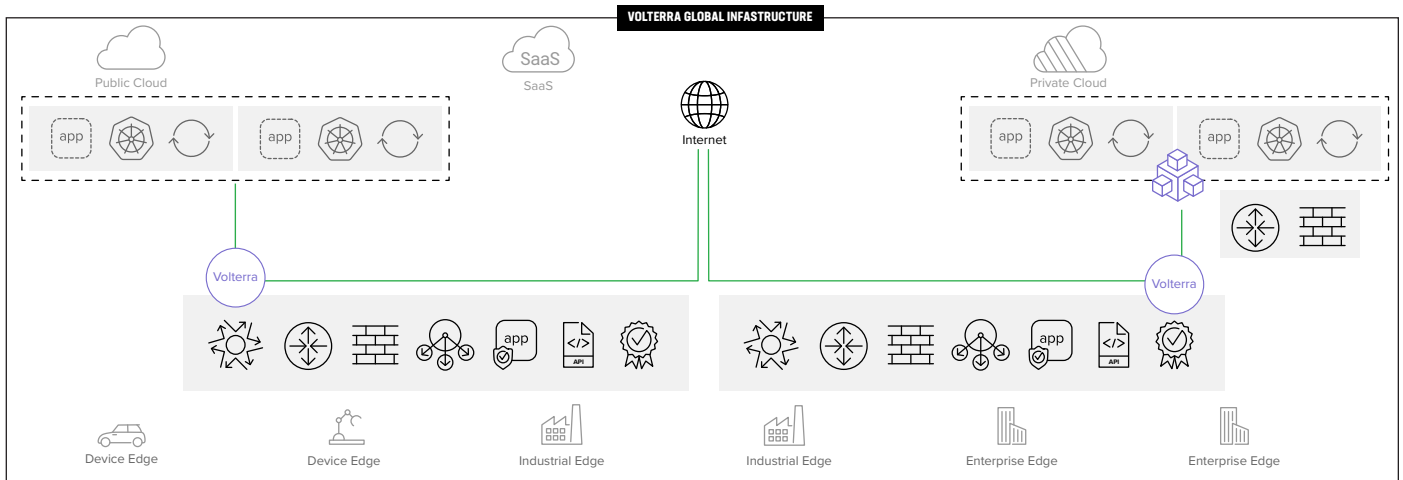


Figure 5: The Volterra global infrastructure delivers a secure, high performance and reliable cloud network.

About Volterra

Volterra provides a comprehensive SaaS platform to deploy, connect, secure and operate distributed applications and data across multi-cloud and edge sites.

Learn more about Volterra Edge Cloud solutions

Visit: volterra.io

Contact Technical Sales: sales@volterra.io

