SOLUTION OVERVIEW

A Global Network for Maximum Cloud Performance

F5® Distributed Cloud 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.

F5 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.

F5 Distributed Cloud Services offer 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

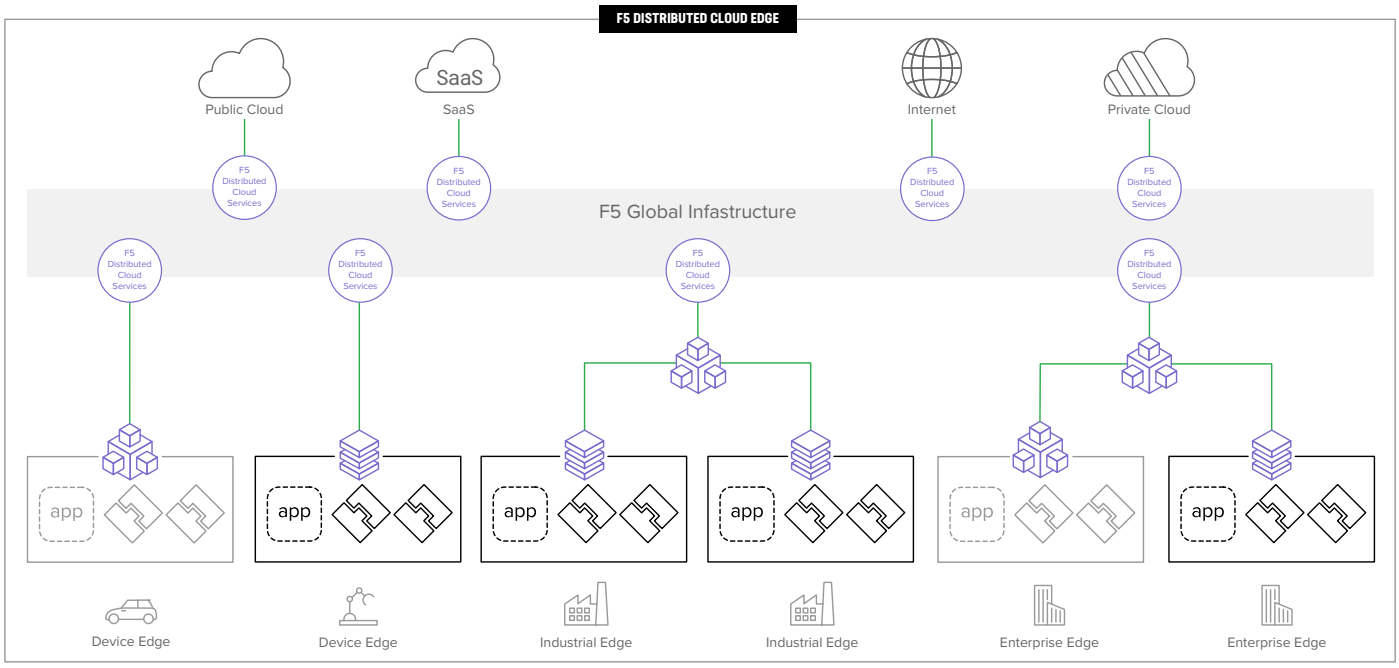

Figure 1: F5 Distributed Cloud Services provide a distributed app gateway for centrally managed network and security services.

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.

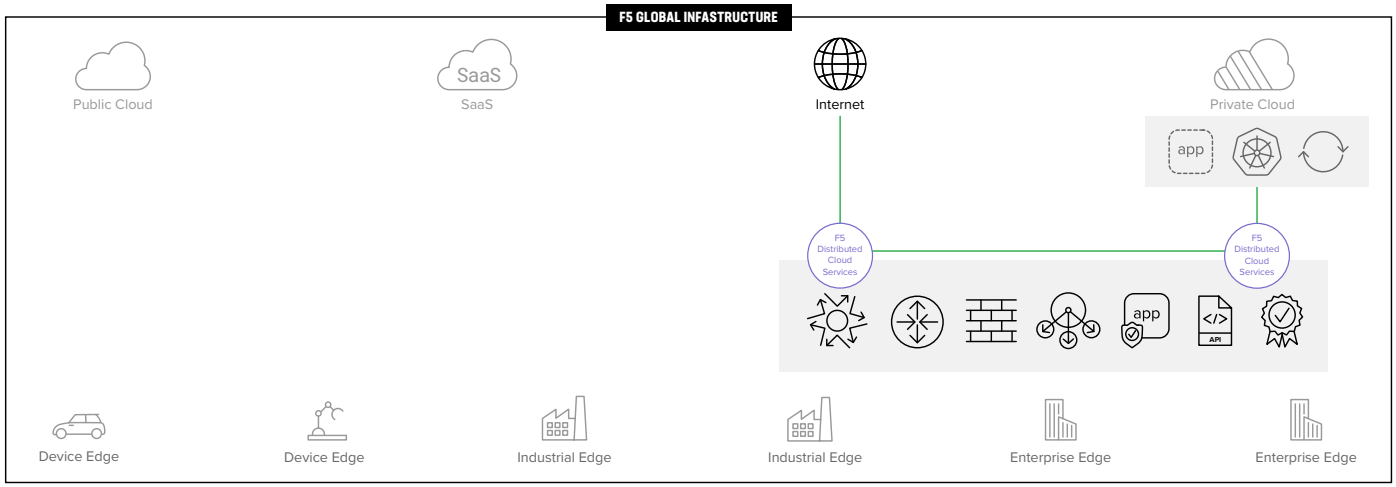

Figure 2: F5 Distributed Cloud Services increase reliability and security of cloud-based applications.

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.

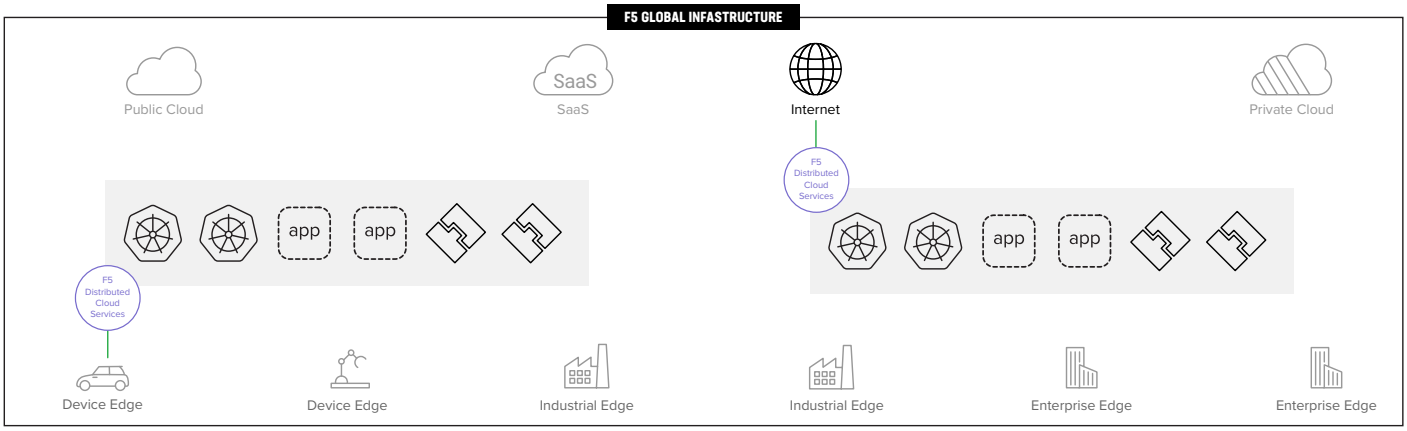

Figure 3: Running applications closer to the network edge improves user experience and reduces costs.

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.

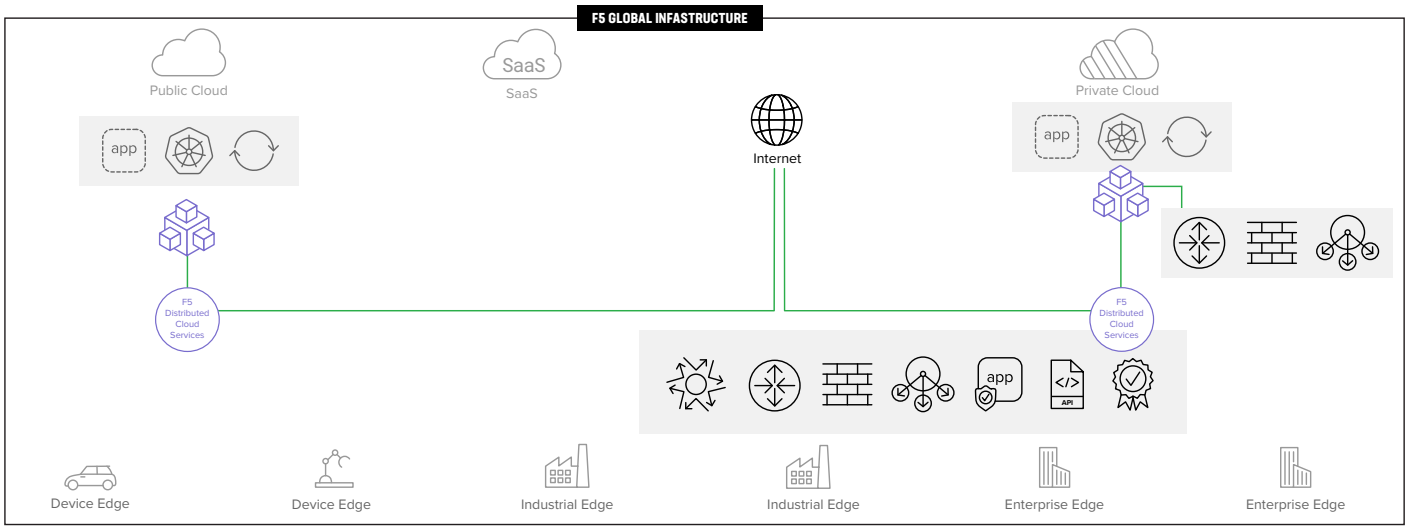

Figure 4: F5 Distributed Cloud Services reduce latency and accelerate applications to improve user experiences.

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 F5's global infrastructure.

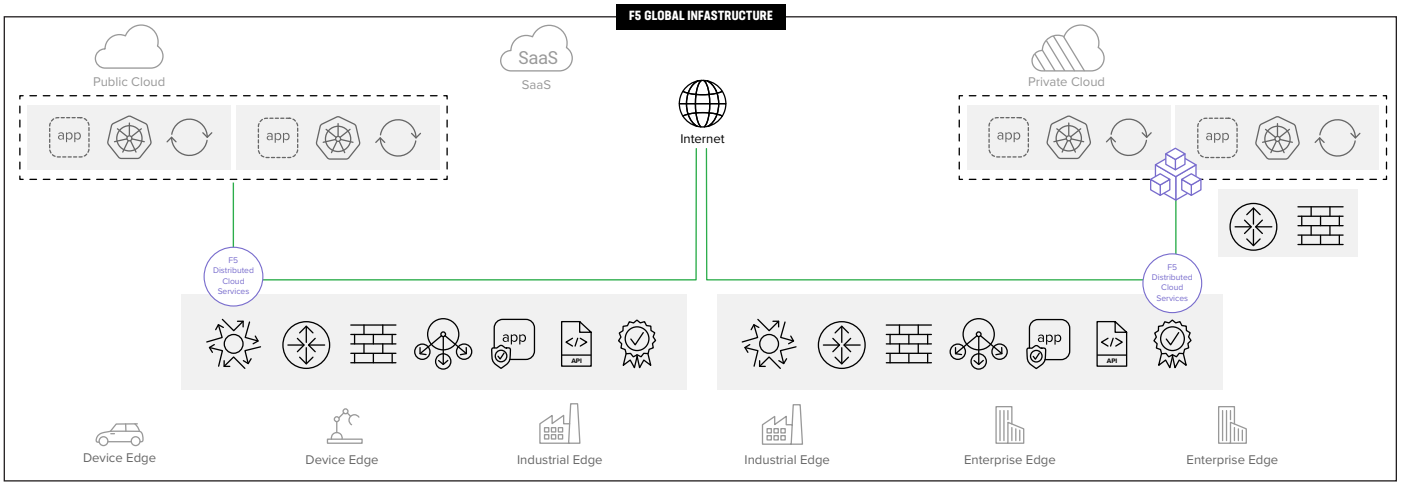

Figure 5: The F5 global infrastructure delivers a secure, high performance and reliable cloud network.

About F5 Distributed Cloud Services

F5 Distributed Cloud Services are SaaS-based security, networking, and application management services that can be deployed across multi-cloud, on-premises, and edge locations.

Learn more about F5 Distributed Cloud edge solutions
Visit: f5.com
Contact Technical Sales: sales@f5.com

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