

### **CONNECTIVITY STACK FOR KUBERNETES**

## Deliver and Secure Your Kubernetes Apps from Edge to Cloud

### WHY USE CONNECTIVITY STACK FOR KUBERNETES?



#### **Simplify Operations**

Reduce complexity, mitigate tool sprawl, and gain better insight into app health and performance for your containerized workloads



### Increase Uptime

Maintain app connectivity in dynamic environments and resolve problems before they impact your customers



### Release Apps Faster

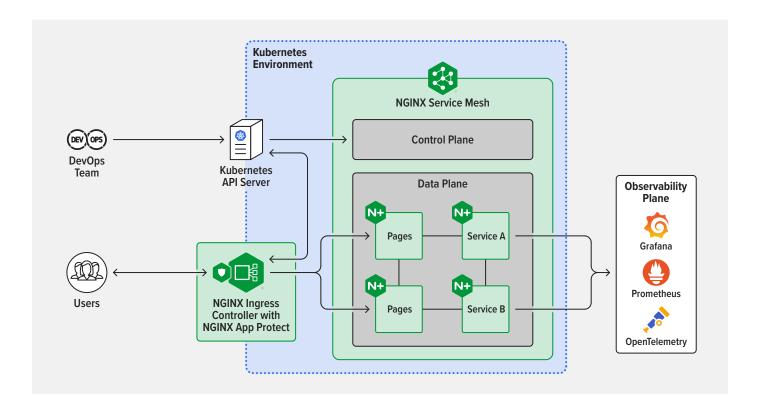
Streamline self-service capabilities across multi-tenant development teams without compromising security

# Reduce Complexity, Increase Uptime, and Release Apps Faster at Scale with F5 NGINX

Kubernetes is the de facto standard for container management and orchestration to deliver modern apps efficiently. At the same time, organizations are facing challenges with adopting Kubernetes in production:

- Poor user experience in scalable, dynamic environments due to connection timeouts and errors
- Downtime and slow troubleshooting due to insufficient visibility into app health and performance
- Increased risk of exposure to cyberthreats across distributed app environments
- Slowed release cycles because governance and self-service capabilities are missing or inadequate
- Difficulty operating and managing hybrid, multi-cloud environments due to complexity and tool sprawl

Now you can address Kubernetes challenges with the most popular data plane technology in the world. The Connectivity Stack for Kubernetes combines NGINX Ingress Controller, NGINX Service Mesh, and NGINX App Protect into an integrated tool kit that enables your organization to scale, observe, govern, and secure Kubernetes apps – on premises, in the cloud, or at the edge.



### Benefits of the Connectivity Stack for Kubernetes

Simplify and streamline app and service connectivity, in any Kubernetes environment and no matter where you run Kubernetes. Enhance capabilities of cloud provider and pre-packaged Kubernetes offerings for business-critical apps that require higher degrees of scalability, observability, security, and governance with full support.

### Scale

Deliver improved experiences under peak workloads:

- Optimize performance and resilience Adapt faster with nondisruptive reconfiguration, adaptive load balancing, and granular traffic management
- Consolidate technology Power use cases from API gateway to load balancer with a unified and integrated enterprise-grade tool kit

### **Observe**

Gain visibility and insight into app health and performance:

- Make troubleshooting easy Quickly find the root cause of app issues with extensive metrics and dashboards
- Plan with confidence Identify workload trends and cycles with detailed historical data for better decision making

### Secure

Streamline and unify protection of apps and APIs:

- Improve security posture Enhance Zero Trust with centralized authentication, authorization, access control, encryption, dynamic policies, and auditing
- Ensure holistic app protection Integrate WAF and DoS protection across distributed environments without slowing release velocity or compromising performance

### Govern

Improve agility and efficiency across multi-tenant teams:

- Enable self-service Allow Development teams to control connectivity to their apps without submitting a ticket to a Platform Ops team
- Share resources Reduce cost and complexity by regulating permissions with role-based access control (RBAC)

To learn more, visit nginx.com/k8s

