

# NGINX One Application Delivery Management Software

Optimize, scale, and secure modern apps, Kubernetes clusters, API communications, and AI inference across diverse environments.



## Key Benefits

### Availability and performance

Ensure apps stay available, handle heavy and unpredictable traffic loads, improve app performance, and keep the enterprise running smoothly.

### Security and compliance

Detect vulnerabilities and misconfigurations and implement consistent, robust security and access controls.

### Management and observability

Empower all stakeholders in the application delivery value chain, reduce management complexity, and improve efficiency.

# Securely Deliver Cloud-Native and Distributed Applications Across Diverse Environments

With the rise of cloud-native and distributed architectures, organizations are producing smaller, more focused applications, microservices, and external services linked via APIs. Stakeholders in the app delivery value chain across Platform Ops, DevOps, SecOps, and NetOps need tools to help them scale. Without a centralized management and visibility layer for their NGINX fleet, there's often misalignment. Uniform policies for security, compliance, and application optimization require substantial manual effort and don't scale efficiently. Additionally, customers using commercial NGINX products struggle to understand contractual entitlements, match components to use cases, and receive support for open-source elements.

## NGINX One Give You the Best of All Worlds

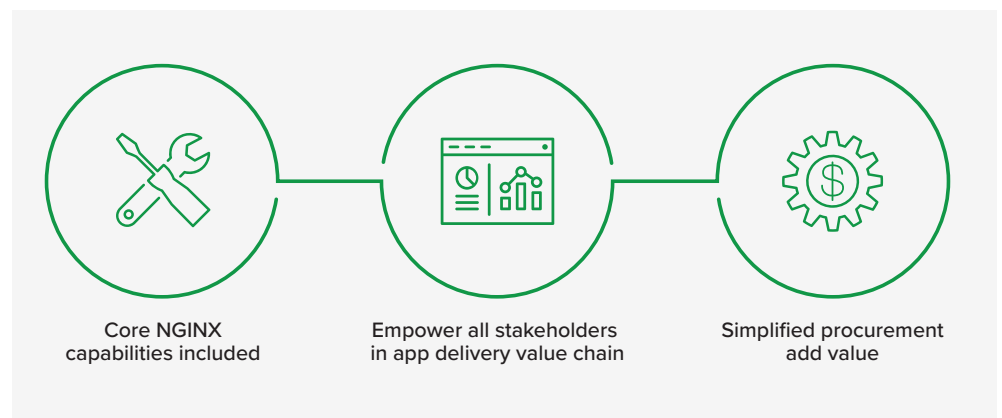


Figure 1: The best of all worlds

NGINX is a proven technology for optimizing application and API performance, security, and scalability in varied cloud environments. Its lightweight design, extraordinary versatility, and consistent stability have made it a go-to tool, particularly for developers needing to optimize delivery and security near their code. NGINX is used by a third of all websites, has over a billion docker image downloads, and is used in nearly half of the organizations running containers.

NGINX One takes NGINX technology and streamlines, simplifies, and improves user experiences when buying, managing, securing, observing, and governing all NGINX components at scale. With NGINX One, you can utilize any NGINX component for any environment with a single agreement, plus the flexibility to adjust your mix of components as needs change. A new management plane, accessible via API or SaaS, reduces complexity and addresses common pain points through actionable insights and recommendations.

## Key Features

### NGINX Plus

Achieve adaptable and dynamic load balancing at scale and in any environment.

### NGINX Instance Manager

Simplify configuration, security, monitoring, and troubleshooting for app delivery use cases.

### NGINX Ingress Controller

Manage app connectivity at the edge of a Kubernetes cluster with API gateway, identity, and observability features.

### NGINX Gateway Fabric

Get fast, reliable, and secure connectivity for your Kubernetes apps with self-service governance through a native, role-based API model.

### NGINX App Protect

Ensure consistent oversight for apps with global policies and fine-grained controls for developers.

### NGINX Open Source

Deliver core capabilities including software load balancer, reverse proxy, web server, and content cache.

Customers get a unified management plane with NGINX One to manage, secure, and observe any NGINX instance across all environments. It simplifies configuration, offers real-time performance monitoring, and enhances security with common vulnerabilities and exposure (CVE) prioritization and configurations. NGINX One streamlines and automates policy enforcement and compliance, and the clustering feature allows specific configurations for security or role-based groups.

## Improve NGINX Instance Management and Visibility

Leveraging the F5® Distributed Cloud Platform, the NGINX One management console is easy to purchase, install, and use. All NGINX products are available through a single NGINX One SKU and your mix of components can be changed over time as needed. You integrate the management plane with your preferred tool stack via the API.

### NGINX One SaaS console

The NGINX One unified management plane facilitates collaboration with Platform Ops and SecOps teams, keeping everyone the same page for all metrics and statuses.

- **Instance discovery.** Discover all NGINX instances running in the enterprise and programmatically observe and verify instance status. Automate
- **Management.** Tune application performance across different environments by automating configuration and updates, reducing errors and speeding update deployments.
- **Observability.** Gain detailed real-time insights into the health, security, status and performance level of all NGINX instances.
- **Policy distribution.** Quickly deploy and automatically enforce security policies, including for common vulnerabilities and exposures, patching, configuration, and certificate rotations.

### NGINX One core data plane

The core data plane encompasses F5® NGINX Plus®, NGINX® Open Source, NGINX Unit®, and the Kubernetes solutions NGINX® Gateway Fabric and NGINX® Ingress Controller.

- **API gateway.** Use NGINX load-balancing features to complement existing hardware application delivery controllers, or even to replace them completely.
- **Caching.** Cache both static and dynamic content from your proxied web and application servers, to speed delivery to clients and reduce the load on the servers.
- **Load balancing.** Load balance HTTP traffic across web or application server groups, with several algorithms and advanced features including slow-start and session persistence.

- **Policy enforcement.** Unify and centralize security policy enforcement and integrate strong security controls across distributed environments without slowing release velocity or hurting performance.

**NGINX One security**

NGINX One includes lightweight, high-performance security designed to protect APIs and modern apps. Available at a premium tier, F5® NGINX® App Protect WAF enforces, automates, and scales your app and API security across distributed architectures and hybrid environments. F5® NGINX® App Protect DoS defends against automated Layer 7 denial-of-service attacks aiming to degrade your application experience or availability.

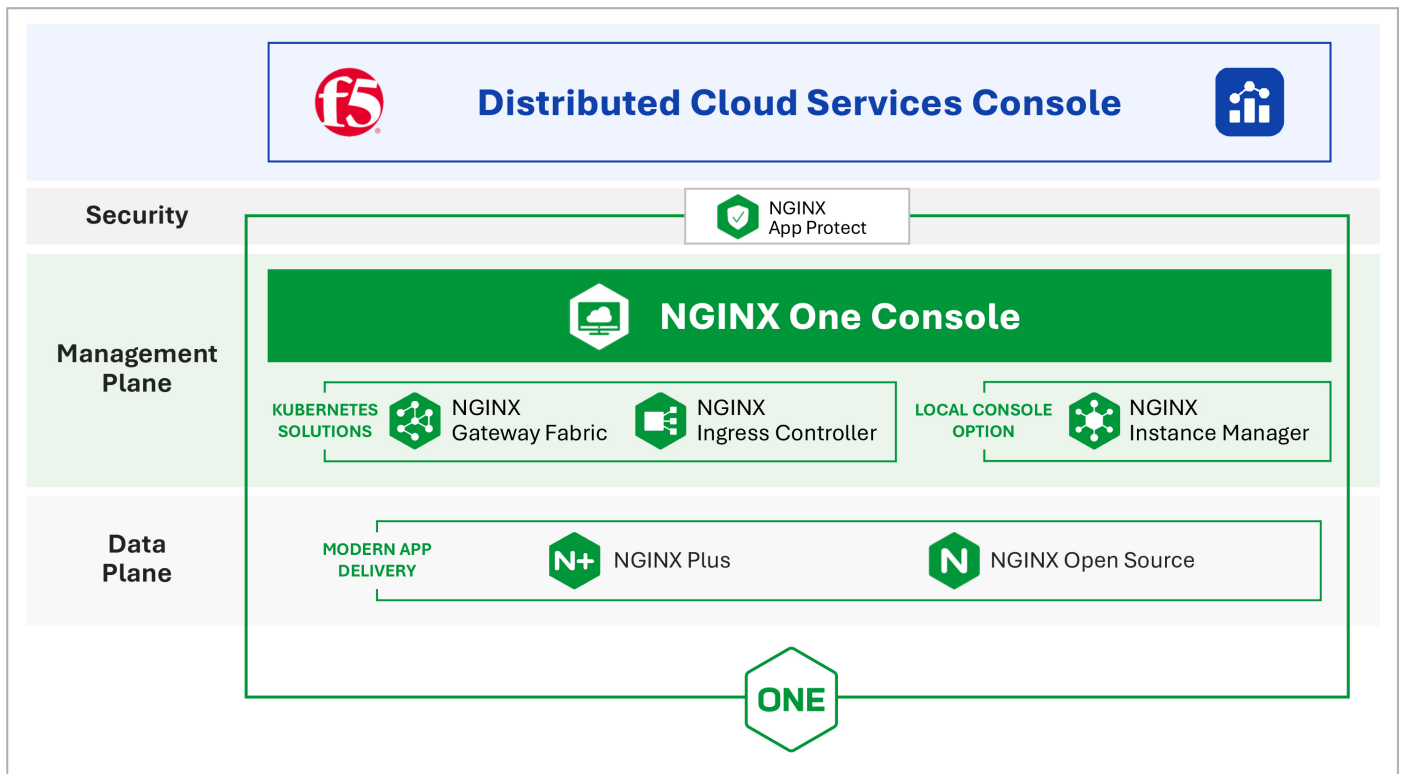


Figure 2: NGINX One solution components

# Integration with F5 Distributed Cloud Services

Combine data delivery and optimization capabilities with the speed and flexibility of the F5® Distributed Cloud Services SaaS platform and maximize value with bundled pricing, along with the power to accelerate application delivery and time-to-value with NGINX like never before.

- **Performance at scale.** Use the power of SaaS to scale up and down efficiently, ensure apps stay available, and keep the enterprise running smoothly.
- **Enhanced visibility.** Gain better visibility into your infrastructure and valuable insights into application performance with the F5® Distributed Cloud Console.
- **Tighter security.** Consistent and robust security across your architecture and role-based access control helps reduce your threat surface.

## Simplify multicloud networking

While cloud-native tools offer security and networking capabilities, when enterprises deploy apps across multiple environments, they fail to deliver interoperability that enables app-to-app communications and connectivity. F5® Distributed Cloud App Connect and F5® Distributed Cloud Network Connect simplify network and application connectivity across distributed multicloud environments, allowing cloud and network teams to work through a single solution and avoid proprietary tools and configurations that come with each cloud.

## Deploy advanced web application and API protection (WAAP)

With apps everywhere, you need continuous protection and defenses, particularly for APIs which can be more vulnerable and difficult to discover and manage. F5® Distributed Cloud Web App and API Protection (WAAP) secures apps and APIs across your complex hybrid and multicloud fabric, delivering consistent security and enforcement and continuous defenses for web-facing apps. Capabilities include web application firewall (WAF), DDoS protection, and defenses against bots and abuse.

## Conclusion

NGINX One is the next step in the evolution of NGINX technology that improves the end-to-end experience across buying, managing, optimizing, and governing NGINX components across complex, hybrid multicloud environments. Whether you're new to NGINX or a long-time user, NGINX One is an important solution for your application delivery.

**Find out how F5 NGINX One can enable you to achieve your goals.**

[Contact F5](#)

