NGINX Plus

IF YOU LIKE NGINX, YOU'LL LOVE NGINX PLUS

Every company is a technology company. The applications you build play a critical role in your company's future. But building applications is only the half the battle; success or failure depends on how well you deploy, secure, and scale your applications.

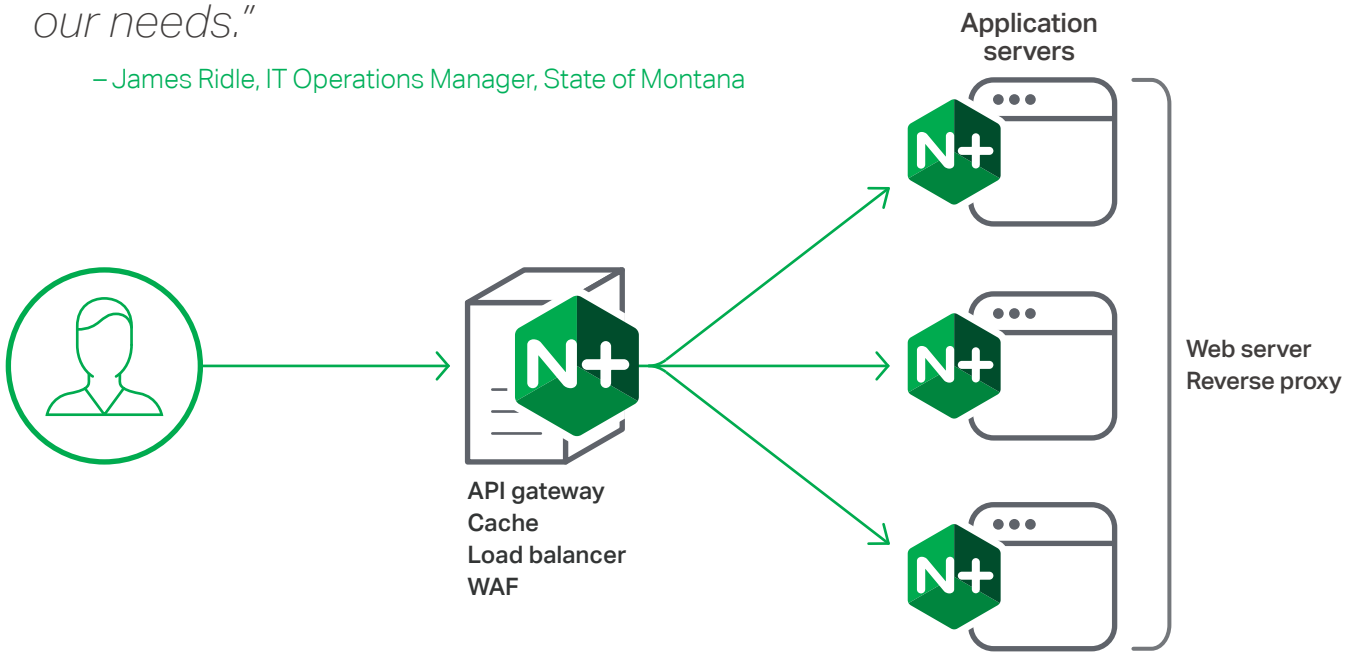
NGINX Plus is the only all-in-one API gateway, cache, load balancer, web application firewall (WAF), and web server. NGINX Plus extends NGINX Open Source with exclusive features and award-winning support, providing customers with a complete application delivery solution.

"The amount of traffic that NGINX Plus can handle is unreal – even beyond our needs."

– James Ridle, IT Operations Manager, State of Montana

Why NGINX Plus?

- **Consolidation**
  Reduce complexity and simplify management by consolidating load balancer, API gateway, and WAF into a single elastic ingress/egress tier.
- **Cost Savings**
  Save more than 80% compared to F5 BIG-IP and other hardware load balancers, with NGINX Plus and commodity hardware.
- **Flexibility**
  Deploy anywhere. Multi-cloud: AWS, Azure, GCP, and VMware. Containers: Docker, Kubernetes, and OpenShift.



NGINX Plus combines multiple functions into a single piece of software

Learn more at **nginx.com**

NGINX Plus Features

AUTHENTICATION

- HTTP Basic Authentication
- HTTP authentication subrequests
- X.509 Client Certificate Authentication
- **NTLM authentication**
- **JSON Web Token (JWT) validation**
- **OpenID Connect**
- ***Single Sign-On:*** **Keycloak, Okta, OneLogin, Ping Identity, most IdPs**

CONTENT CACHE

- Cache static and dynamic content
- Micro and byte-range caching
- Serve content when origin is unavailable; improves uptime
- Override or set `Cache-Control` headers
- **Cache purging**

HIGH AVAILABILITY

- **Active-active and active-passive HA modes**
- **Configuration synchronization**
- **State sharing: sticky-learn session persistence, rate limiting, and key-value stores**
- **Easy installation with built-in script**

LOAD BALANCER

- HTTP, TCP, and UDP load balancing
- Random with Two Choices, Round Robin, and Least Connections algorithms
- Passive health checks
- P Hash session persistence
- IP transparency
- Direct Server Return (DSR)
- Layer 7 request routing
- **Least Time algorithm, can be used with Random with Two Choices**
- **Active HTTP, TCP, and UDP health checks**
  - **Customizable HTTP status code check**
  - **Regex pattern matching on HTTP response body**
  - **TCP Connect health check**
- **Sticky-cookie (insertion and learning) and sticky-route session persistence**
- **Service discovery using DNS**

MONITORING

- Stub status module with 7 aggregated metrics
- **Extended status with over 150 unique metrics**
- **Real-time graphical dashboard**
- **JSON output for integration with custom monitoring tools**

PROGRAMMABILITY

- NGINX JavaScript module for scripting and advanced configurations
- Lua scripting language
- Ansible, Chef, and Puppet integration
- **Key-value store for dynamic configuration**
- **NGINX Plus API for managing upstream servers, key-value stores, and metrics**
- **Dynamic reconfiguration without process reloads**

SECURITY CONTROLS

- Request, connection, and bandwidth limiting
- IP address access control list (ACL)
- Dual stack RSA/ECC SSL/TLS offloading
- Server-side SSL/TLS encryption
- TLS 1.3 support
- Mutual TLS termination and proxying
- Secure links
- **Dynamic DDoS mitigation**
- **NGINX WAF module***

STREAMING MEDIA

- Live: RTMP, HTTP Live Streaming (HLS), DASH
- VoD: Flash (flv), MP4
- **Adaptive-bitrate VOD: HLS, Adobe HTTP Dynamic Streaming (HDS)**
- **Bandwidth controls for MP4 streaming**

THIRD-PARTY INTEGRATIONS

- Kubernetes Ingress Controller
- OpenShift Router
- ***Third-party modules:*** **Headers-More, Set-Misc, etc.**
- ***Certified modules:*** **51Degrees, ForgeRock, etc.**

WEB SERVER/REVERSE PROXY

- Serve static content with low memory footprint
- Reverse proxy gRPC, HTTP, Memcached, PHP-FPM, SCGI, and uwsgi servers
- IP address geolocation (requires MaxMind GeoIP database)
- HTTP/2 termination and HTTP/2 server push

SUPPORTED ENVIRONMENTS

Cloud
- Amazon Web Services (AWS)
- Google Cloud Platform (GCP)
- Microsoft Azure
- VMware

Containers
- Docker
- Kubernetes
- OpenShift

CPUs
- ARM (64 bit)
- PowerPC (64 bit)
- x86 (32 and 64 bit)

Operating Systems
- Alpine Linux
- Amazon Linux
- CentOS
- Debian
- FreeBSD
- Oracle Linux
- Red Hat
- SUSE
- Ubuntu

*NGINX WAF is based on ModSecurity. Additional cost.
Bold features are exclusive to NGINX Plus.

For more information, visit nginx.com or send us an email at nginx-inquiries@nginx.com