



API Management

Scale Your Digital Business with Faster, More Secure APIs

NGINX Controller is a robust API management solution that fully leverages the power of the lightweight, simple, and high-performance NGINX Plus data plane.

The Problem

APIs are crucial to an enterprise’s digital transformation strategy. APIs foster internal collaboration among developers, provide an opportunity to generate revenues by building partnerships with third-party developers, and are foundational to application modernization initiatives that use microservices.

NGINX is the industry’s most ubiquitous API gateway, handling API routing, security, and authentication.

Infrastructure & Operations and DevOps teams must grapple with many challenges as APIs gain wide adoption both internally and externally and the numbers of APIs and API gateways increase. APIs need to be managed in an efficient manner across their entire lifecycle and API gateways must be updated with the latest API policies. API management must not degrade the performance of the gateway itself, which is responsible for routing and mediating traffic.

The Solution

The NGINX Controller API Management Module combines the raw power and efficiency of NGINX Plus as an API gateway with new control-plane functionality. NGINX Controller empowers teams to define, publish, secure, monitor, and analyze APIs, while keeping developers in control of API design.

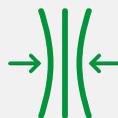
NGINX Controller eliminates the need for local databases or additional components that may introduce needless complexity, latency, and potential points of failure for NGINX Plus API gateways. API runtime traffic is isolated from API management traffic because the NGINX Plus API gateway (data plane) does not require constant connectivity to NGINX Controller (control plane). This maximizes performance by reducing the response time to serve an API call and minimizes the footprint and complexity of the gateway. This decoupled approach extends to the Developer Portal too – it can be hosted on a separate NGINX web server, improving its performance and availability and providing considerable flexibility.

Why NGINX Controller for API Management?



Deliver APIs in Real Time

A radically innovative architecture that decouples the control plane from the data plane makes the NGINX API management solution ideal for serving APIs in real time



Flexible and Portable

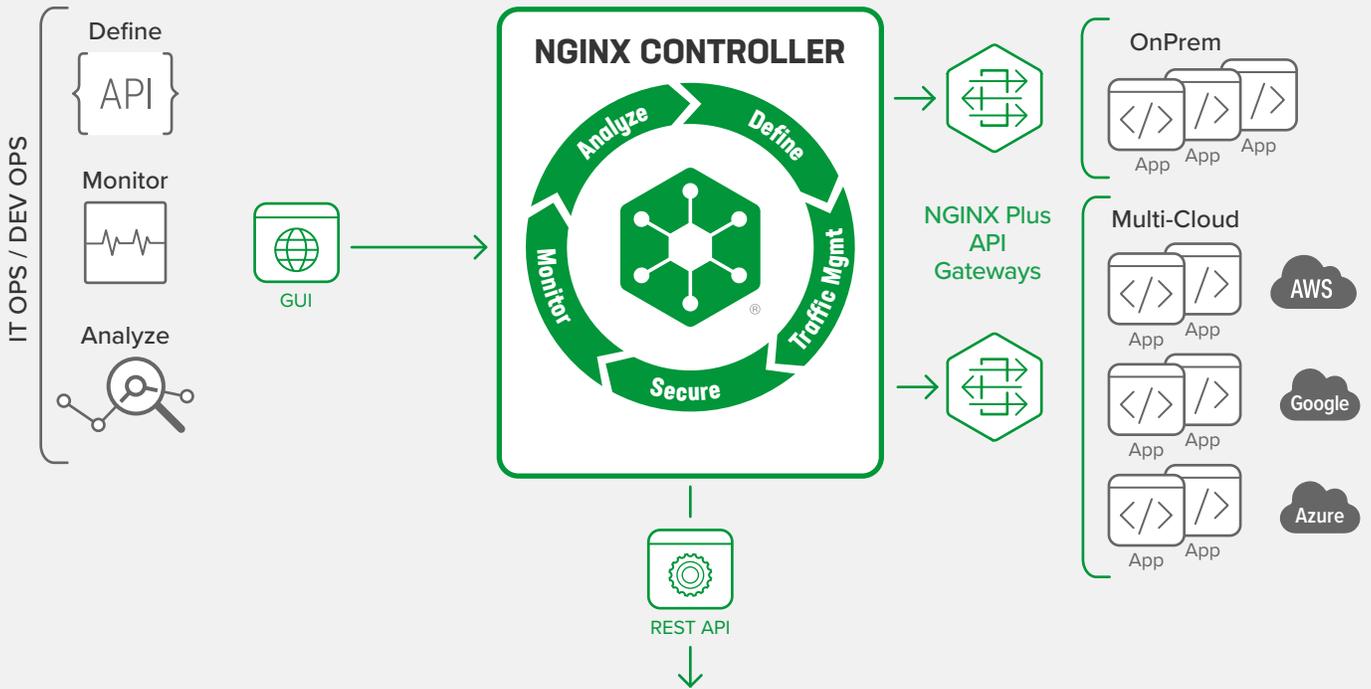
Deploy API management on any environment – bare metal, VMs, containers, and public, private, and hybrid clouds



Scale Your Business

Integrate API management into your CI/CD pipelines, and automate definition and publication of your APIs and configuration of your gateways





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API Management Module Features

API Definition and Publication

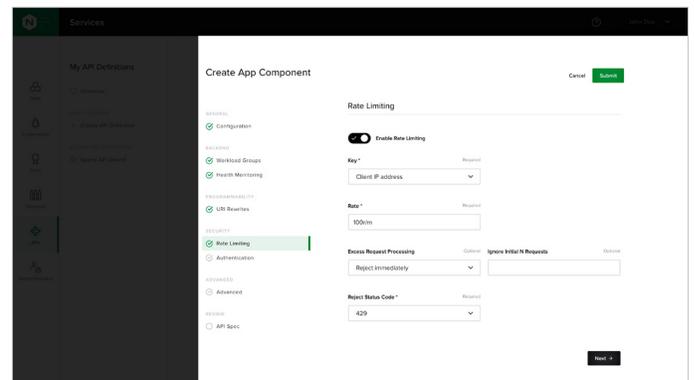
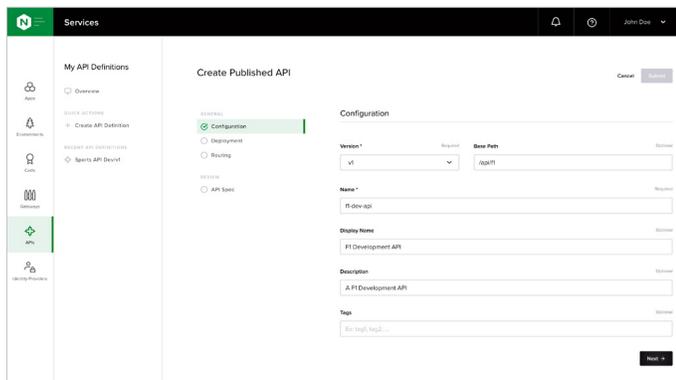
Define APIs using an intuitive interface:

- Define base path and backend services
- Route APIs to appropriate backend services
- Manage versioning of APIs
- Import APIs that follow OpenAPI standard
- Publish APIs to one or more environments, such as production or staging

Rate Limiting

Mitigate DDoS attacks and protect your applications by setting rate limits:

- Specify the maximum request rate for each client, consumer, or resource
- Protect API endpoints and ensure SLAs for API consumers
- Define multiple rate-limiting policies

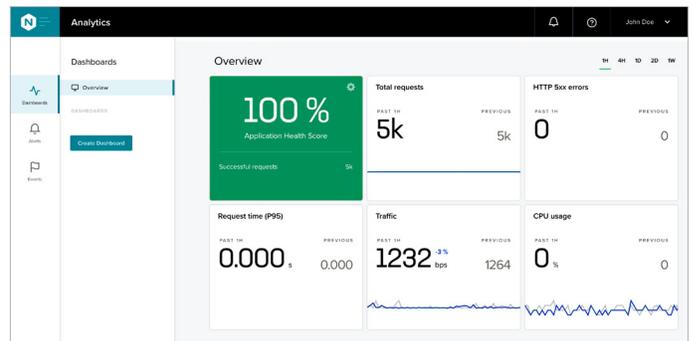


API Management Module Features

Dashboards

Monitor and troubleshoot API gateways quickly with:

- An overview dashboard that aggregates metrics across API gateways
- An Application Health Score that measures successful requests and timely responses
- Customizable dashboards to monitor metrics specific to your environment



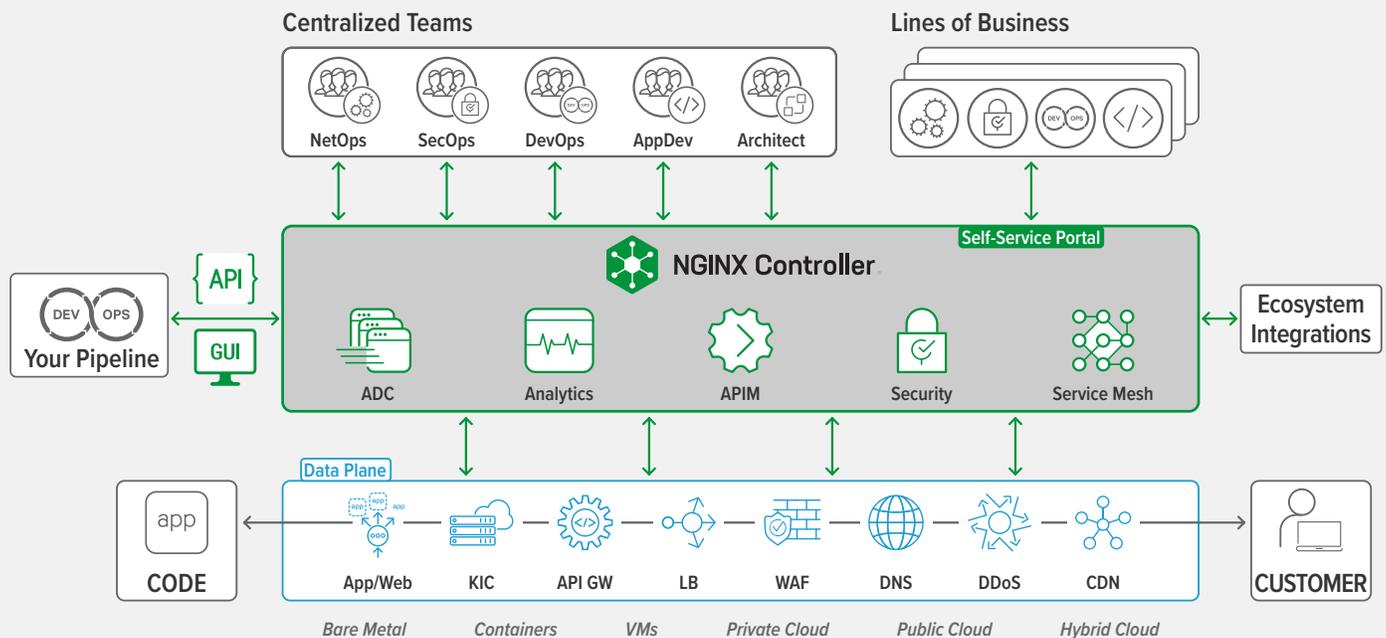
NGINX Controller

The First App-Centric, Multi-Cloud Application Platform for Modern App Teams

From NetOps to DevOps, modern app teams need a self-service, API-driven platform that integrates easily into CI/CD workflows to accelerate app deployment – whether your app has a hybrid or microservices architecture – and makes app lifecycle management easier.

Built to manage NGINX Plus instances, NGINX Controller is cloud-native, secure, and high-performance.

Ready to experience lightning-fast application delivery and API management? [Request a free trial today.](#)



To discover how NGINX can help you, visit nginx.com.