aws marketplace

NGINX Ingress Controller

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Product Recap

NGINX Ingress Controller

NGINX Ingress Controller Recap

NGINX Ingress Controller efficiently manages external access to services in Kubernetes, ensuring secure connection handling and traffic flow. Its robust architecture supports high availability, scalability, and performance, making it a vital component for managing ingress resources.

NGINX Ingress Controller serves as a critical ingress point for Kubernetes clusters, offering vast customization options and seamless integration with NGINX and NGINX Plus. It provides enterprises with scalable solutions for enforcing policies and maintaining control over traffic routing. The controller supports various load balancing algorithms and TLS termination, making it a versatile tool for organizations aiming to optimize their containerized environments.

What are the most important features of NGINX Ingress Controller?

- High Performance: Delivers efficient load balancing and reverse proxying, ensuring fast response times.
- Security: Offers advanced configuration for secure access, including TLS/SSL termination and authentication.
- Extensibility: Facilitates custom configurations through a flexible annotation system.
- Scalability: Supports scalable infrastructure with efficient handling of traffic spikes.

What benefits or ROI should users look for in reviews?

- Improved Resource Management: Optimizes the use of cluster resources, leading to reduced operational costs.
- Enhanced User Experience: Low latency and high uptime contribute to better service quality.
- Operational Efficiency: Streamlines deployment processes, increasing team productivity.
- Security Assurance: Robust security features protect sensitive data.

In the finance sector, NGINX Ingress Controller helps manage the heavy transactional load while ensuring data privacy and compliance. E-commerce platforms benefit from its superior performance during traffic surges, enhancing customer satisfaction. In the tech industry, it integrates easily with microservices architectures, simplifying operations and reducing downtime.

Valuable Features

Excerpts from real customer reviews on PeerSpot:

- "However, the response, throughput, and solid performance we receive after implementation are often worth it."

MuthukaruppasamyR

Senior Network At Dxc Technology Professional at DXC Technology

- "The main benefit is that it is better in performance, provides security with App Protect and WAF and DDoS, and delivers high performance and high stability."

Ehab Kamal

Import Comliance Specialist at silicon21

- "From my experience, I think the main benefit NGINX Ingress Controller provides to the end user is the reliability of NGINX Ingress Controller itself."

Sukkarin Ruensukont

Information Security Engineer at a outsourcing company with 1,001-5,000 employees

"NGINX Ingress Controller has positively impacted my organization by helping us with exposing our applications and managing security and auto-scaling."

Verified user

Sr cloud engineer at a tech vendor with 201-500 employees

What users had to say about valuable features:

"The performance and stability are what I like about NGINX Ingress Controller. The more important concern is that it can apply App Protect and DDoS protection within NGINX Ingress Controller Plus. Security and performance are better, and all customers love it because of these options.

"The main benefit is that it is better in performance, provides security with App Protect and WAF and DDoS, and delivers high performance and high stability. However, there is still a major limitation in GUI capability to manage and observe. That is one of the major limitations.."

Ehab Kamal

Import Comliance Specialist at silicon21

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"A third-party solution would be better for that. NGINX Ingress Controller is a software, so its capability of working is fitting inside the organization, not facing the internet. The one that faces the internet is something else, for example, the firewall or Big-IP, so normally we do the whitelisting at those levels, not the NGINX Ingress Controller layer.

Most customers are satisfied with the reverse proxy capability, but the main issue is that the Ingress NGINX, the one that is most widely used, will be deprecated this month. I think that is the main concern from the customer side, but normally NGINX Ingress Controller just works well and is reliable.

From my experience, I think the main benefit NGINX Ingress Controller provides to the end user is the reliability of NGINX Ingress Controller itself. The customer can rely on this service that it will work well, and there will be no problem or issue that they need to concern.."

Sukkarin Ruensukont

Information Security Engineer at a outsourcing company with 1,001-5,000 employees

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"The best features NGINX Ingress Controller offers include helping to expose our applications, such as the front end and back-end API, and allowing us to manage multiple services behind just one IP address. It also handles HTTPS requests in production and performs load balancing automatically. If you want to scale the pods from two to five or two to six, we can configure that. NGINX Ingress Controller automatically distributes the traffic with no manual configuration needed.

"In my day-to-day life, we debug and troubleshoot frequently by checking ingress rules, NGINX logs, and service endpoints. It provides good security features, allowing us to block some IP addresses, rate-limit APIs, and implement basic authentication or AuthO.

"NGINX Ingress Controller has positively impacted my organization by helping us with exposing our applications and managing security and auto-scaling. All of these aspects have been very beneficial as we are using Google Cloud Platform in our organization.

"A specific outcome regarding NGINX Ingress Controller is that it has definitely helped us reduce the downtime of our applications.."

Verified user

Sr cloud engineer at a tech vendor with 201-500 employees

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"I have utilized NGINX Ingress Controller SSL and TLS termination feature. We have done extensive SSL offloading on NGINX Ingress Controller and made the TLS configurations to match security requirements, allowing certain TLS versions while disabling others such as 1.0, 1.1, and 1.2, and allowing 1.3. The choice depends upon the application requirement.

"The reverse proxy capabilities of NGINX Ingress Controller in managing distributed applications is central to its main concept. We need to configure it to allow the server to access the outside world and the internet. That is achievable, and we can install and configure NGINX Ingress Controller as a reverse proxy. It can work as a load balancer, but the main part is NGINX Ingress Controller's role as a reverse proxy. If any applications need to be accessed through the proxy to the outside world, then NGINX Ingress Controller is a good product for you.

"I employ the IP whitelisting feature in NGINX Ingress Controller, which helps secure my application environment. In IP whitelisting, there are several options available. You can determine which IPs to block, for example, if you do not want to give access to specific regions. You can find the list of IP addresses registered in those regions and blacklist them. There is also the web application firewall (WAF) where you can create policies to identify the type of traffic trying to access the application.."

MuthukaruppasamyR
Senior Network At Dxc Technology Professional at DXC Technology

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Use Case

"I have worked on NGINX Ingress Controller with an on-premises deployment model. There is an option for cloud as well, and SaaS solutions are also available. The recent project I completed was NGINX Ingress Controller in Google Cloud for one of our clients.."

MuthukaruppasamyR
Senior Network At Dxc Technology Professional at DXC Technology

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"The simplest and most common use case in my country is somebody adopting microservice technology who was using Ingress Controller community edition and wanted to move to enterprise level. Someone wanting to have microservices and containerization applications desired commercial, enterprise-grade Ingress Controller, so they moved to F5 Ingress Controller, which is NGINX Ingress Controller.."

Ehab Kamal
Import Comliance Specialist at silicon21

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"My main use case for NGINX Ingress Controller is managing the traffic that comes through our application. If the server is down or if clients are unable to access our app, then we manage NGINX Ingress Controller. We check if the pod is healthy or not and if the traffic is routing properly or not.

"A specific example of when NGINX Ingress Controller helped me solve a problem is when it routes people accessing our applications. For instance, if users try to access example.com/a, then NGINX Ingress Controller routes them to service A, and if they try to access example.com/b, it sends the traffic to service B.."

Verified user

Sr cloud engineer at a tech vendor with 201-500 employees

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"I am currently working with NGINX Ingress Controller but in a different perspective than before. We haven't used App Protect anymore, but as an implementer, we use it as a front end for an AI gateway to do some mapping for certain information before sending the LLM request to the AI gateway.

NGINX Ingress Controller itself is a reverse proxy, so we manipulate some requests. We utilize NGINX Ingress Controller to manipulate some requests prior to the AI gateway.

My use case has changed because nowadays the main focus for use cases are for AI and AI security that mainly focuses on LLM security.."

Sukkarin Ruensukont

Information Security Engineer at a outsourcing company with 1,001-5,000 employees

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Setup

The setup process involves configuring and preparing the product or service for use, which may include tasks such as installation, account creation, initial configuration, and troubleshooting any issues that may arise. Below you can find real user quotes about the setup process.

"The deployment process of NGINX Ingress Controller is not complex, I would say, because as a network engineer, I may not be able to know all those HTML coding aspects. That is a challenge I faced, because the coding part is new for me. I need to learn and do it. Other than that, I have not seen any other challenges. It is similar to a normal server installation; after that, you need to do the configurations such as network configuration to make the system available in the network. Then, you can implement the load balancer concept, such as installing web in the backend servers. If there is any SSL offloading, that may be the challenging part I faced.."

MuthukaruppasamyR

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Senior Network At Dxc Technology Professional at DXC Technology

Customer Service and Support

"The customer support for NGINX Ingress Controller, specifically from Google, is decent. It is not that excellent, but it is fine and you can rely on them.."

Verified user
Sr cloud engineer at a tech vendor with 201-500 employees

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"I have had one or two cases open with them. They are fast in response, but they are at an average level. The F5 team, which is the BIG-IP team, is faster in response and resolving issues.."

Ehab Kamal
Import Comliance Specialist at silicon21

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“My experience with F5's technical support was excellent around ten years ago, with very good response rates. Nowadays, the quality has been degrading, and I do not expect the same level of service. While they have improved their ticketing system, allowing online submissions and status checks, the skill levels of the technical staff seem to have reduced. That is what I am observing day by day, as I have worked with many highly skilled professionals in the past, and I notice a difference now.

“I would rate their technical support somewhere around a three on a scale of one to ten..”

MuthukaruppasamyR
Senior Network At Dxc Technology Professional at DXC Technology

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Other Advice

"NGINX Ingress Controller is functional, but it is achievable and may take some extra time. The major issues typically relate to vulnerabilities, which F5 addresses with patches that require timely software upgrades to mitigate. I would rate this review a nine overall.."

MuthukaruppasamyR
Senior Network At Dxc Technology Professional at DXC Technology

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"While I have not compared NGINX Ingress Controller with other solutions, I find all of its features, such as load balancing, security, and exposing multiple services behind one IP, to be the best facilities NGINX Ingress Controller is providing. We check all those aspects whenever we encounter any issues in production related to NGINX Ingress Controller.

"My advice for others looking into using NGINX Ingress Controller is that if you are using Google Cloud Platform, then you should definitely go with it as it is good.."

Verified user
Sr cloud engineer at a tech vendor with 201-500 employees

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"I would like to see some AI capabilities, in-built AI capabilities in NGINX Ingress Controller to help with the load balancing.

Normally, customers just use the normal load balancer, and that is fine. The

advanced features we try to introduce include many advanced features, for example, a blue-green deployment, load balancing to service based on header values, and many things, including JWT, but normally customers just use the basic load balancer. Most customers use TLS termination. Most customers use it, and they terminate the certificate at NGINX Ingress Controller level. NGINX Ingress Controller can do whitelisting, but they usually use a different product. For example, a Big-IP to do whitelisting instead of NGINX Ingress Controller.

We have some projects integrating NGINX Ingress Controller with Prometheus including Grafana. The integration is working well, and there is no problem about that.

Currently, there is no suggestion about complexities or functions that can simplify my life with NGINX Ingress Controller. I am totally satisfied with NGINX Ingress Controller if we talk about the functionality part.

I think the price is acceptable, but the issue is not about the price. The issue is about the commonness. Load balancing and Ingress is some kind of generic use case, so there are no exciting features, such as an AI feature or something of that nature. ."

Sukkarin Ruensukont
Information Security Engineer at a outsourcing company with 1,001-5,000 employees

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"NGINX Ingress Controller as a reverse proxy itself, which I have already tested as a software as a standalone server and not just as an Ingress Controller, is perfect. As an Ingress Controller, it is doing fine. NGINX Ingress Controller must perform reverse proxy functions, path-based routing or host-based routing, and target which container to route traffic. It is deep technical work, but it is doing fine overall.

"Configuration is simple to start. To get deeper, I need to be a developer.

"Prometheus and Grafana are definitely necessary. The metrics I find really important is latency and request latency. That is one of the major metrics we love.

"I have configured a new use case once in my life when something required it to work. I did not test it again after that, just once in my life.

"Deployment works at small, medium, and large scales. I am working with different deployments.

"For the sales and pre-sales, I simplify the message as much as possible. The message for NGINX Ingress Controller is always complicated when delivered, and it requires simplification.

"I would rate this product 9 out of 10.."

Ehab Kamal
Import Comliance Specialist at silicon21

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