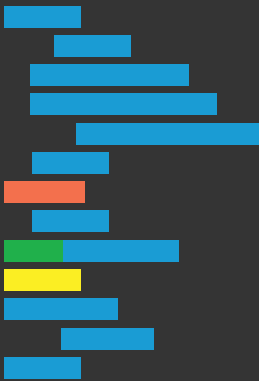




# DELIVER OPTIMAL PERFORMANCE FOR YOUR CONTAINERIZED APPS

Containerized applications need an application delivery infrastructure designed for containers.



**Organizations use container platforms** such as Kubernetes or RedHat OpenShift in combination with agile development methodologies to speed up application development and deployment. Containers are foundational infrastructure components for developing cloud-native applications as they enable flexibility and portability that allow developers to “write once, run anywhere.” Containers reduce dependencies and allow component-level scaling, which is key to modernizing applications using microservices.

Your containerized apps need native application delivery mechanisms to deliver optimal performance. Developers and DevOps teams need a cloud-agnostic lightweight application delivery solution for Kubernetes and OpenShift environments.

But a traditional approach with a static configuration changed only by IT conflicts with the agile container paradigm where new microservice containers might be created dynamically for just a few minutes to service a spike in demand or roll out an upgrade by simply replacing old containers with new ones. How do you ensure that your app services deployments keep up with your rapid release cycles in containerized environments?

YOUR CONTAINERIZED  
APPS NEED NATIVE  
APPLICATION DELIVERY  
MECHANISMS TO DELIVER  
OPTIMAL PERFORMANCE.

## **GET RELIABLE ENTERPRISE-GRADE APPLICATION DELIVERY WITH A PROVEN CONTAINER INTEGRATION SOLUTION**

You need reliable application delivery services integrated with the container platform management plane. You can best support your containerized apps with NGINX, the most widely pulled and starred application on DockerHub, with more than 1 billion downloads.

And with 64% of the market, NGINX is also by far the most popular Ingress Controller in Kubernetes environments, according to [Cloud Native Computing Foundation](#). NGINX also supports Red Hat OpenShift environments, a container application platform built on top of Kubernetes.

## THE ARCHITECTURAL COMPONENTS

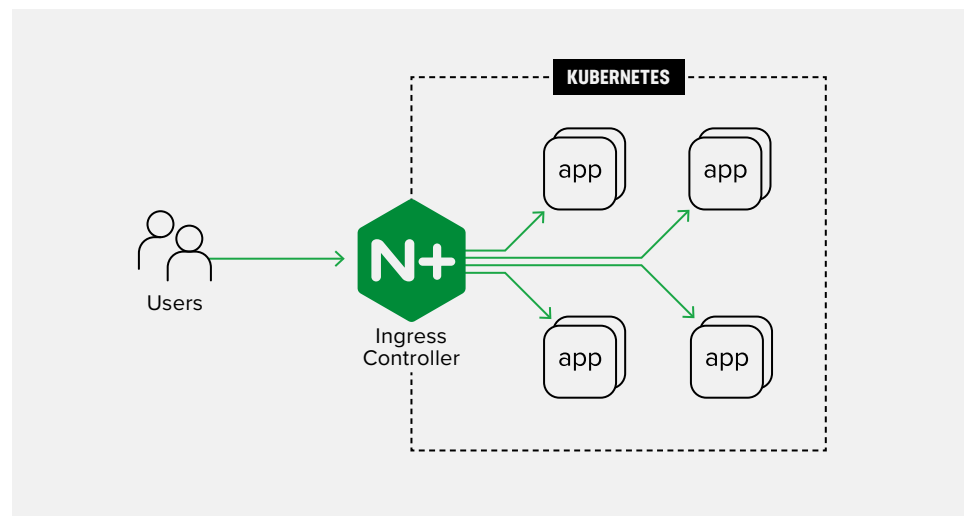
**TO DELIVER CONSISTENT AND POWERFUL MULTI-CLOUD APPLICATION SERVICES IN CONTAINERIZED ENVIRONMENTS, LEVERAGE THE FOLLOWING NGINX COMPONENTS:**

### NGINX Kubernetes Ingress Controller

DevOps can provide external access to their Kubernetes environments using the NGINX Ingress Controller for Kubernetes. This provides enterprise-grade delivery services for Kubernetes applications including real-time metrics, session persistence, active health checks, and JWT validation.

The NGINX Plus version also empowers users to execute non-disruptive reconfiguration, which ensures consistent application performance and resource usage. It's built and maintained to a supportable production standard, and it delivers consistency and stability—preserving backwards compatibility.

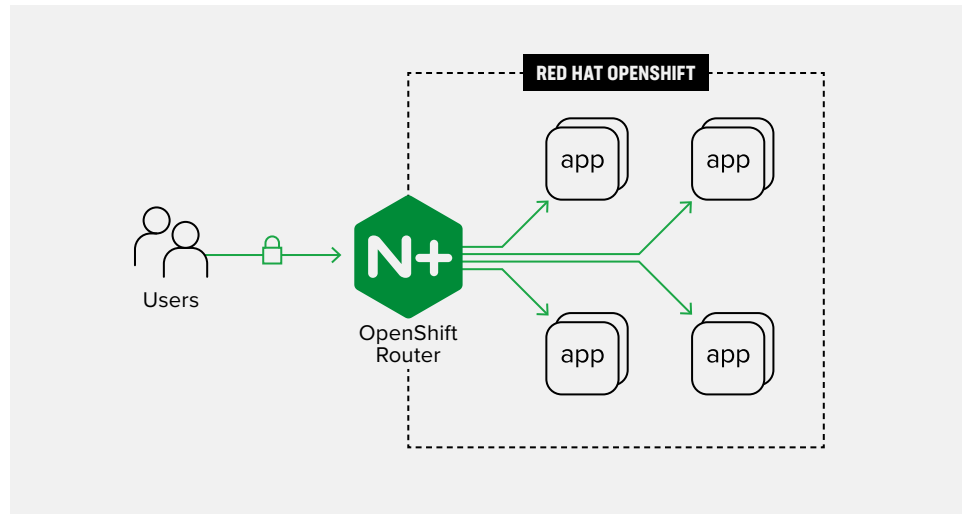
DELIVER MULTI-CLOUD  
APPLICATION SERVICES  
IN CONTAINERIZED  
ENVIRONMENTS.



**Get enterprise-grade application delivery for Kubernetes environments.**

## NGINX Plus Router for OpenShift

For OpenShift environments, NGINX fully supports features defined by the Open Shift Router resource. The [Router](#) acts as the entry point for all external requests coming to applications running on OpenShift, which makes it one of the most critical parts of the platform. NGINX Router is integrated in OpenShift through the Template Router software—the same software that underpins the default Router implementation.



Use the NGINX Plus OpenShift Router for SSL termination, routing, and load balancing.

## CONCLUSION

No matter where they run, applications can benefit from the performance that NGINX offers. With solutions designed for Kubernetes and OpenShift environments, applications running in dynamic container platforms can get the services they need configured on demand—by tools native to the container management system.

## RESOURCES

Read more about [NGINX Kubernetes Ingress Controller](#) and [NGINX Plus OpenShift Router](#).

