

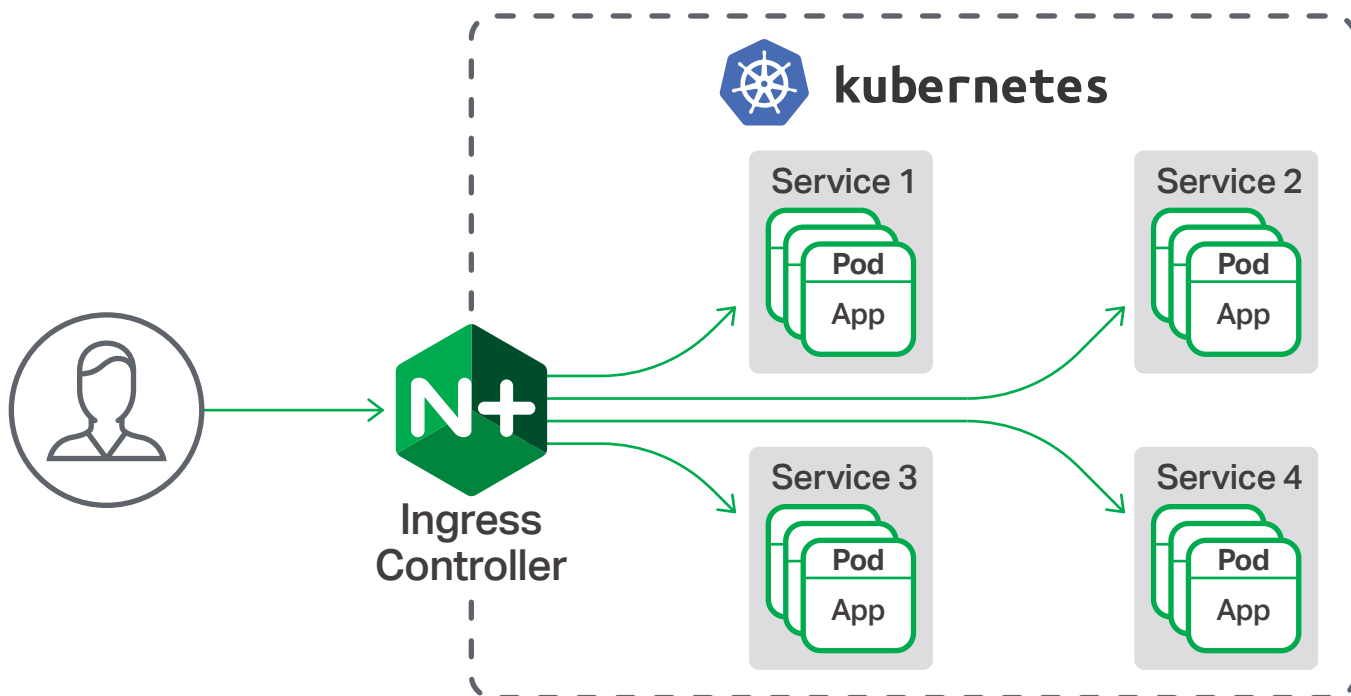
# NGINX Ingress Controller for Kubernetes

## HIGH VELOCITY APPLICATION DELIVERY FOR KUBERNETES

Kubernetes makes it easy to deploy container-based applications. Production applications running on Kubernetes, however, need a proven, production-grade application delivery solution. The NGINX Ingress Controller combines the trusted NGINX Open Source and NGINX Plus software load balancers with automated configuration to ensure that applications in your Kubernetes cluster are delivered reliably, securely, and at high velocity.

## Why use the NGINX Ingress Controller for Kubernetes?

- **Reduced complexity** – Standardizing on NGINX Plus for both Kubernetes and non-Kubernetes applications means fewer tools to manage, and that means more reliable applications and lower costs.
- **Advanced load balancing** – Support for session persistence, WebSocket, HTTP/2, and gRPC addresses the needs of complex microservices applications.
- **Security** – SSL/TLS termination with configurable encryption and support for JWT authentication maximizes performance and privacy.
- **Real-time statistics** – Advanced real-time statistics about traffic flow through the cluster provide detailed insights into how NGINX Plus and your applications are performing.
- **Production ready** – Feel confident with a stable, reliable Ingress controller tested by NGINX, Inc. and covered by 24x7 support for NGINX Plus customers.



Use the NGINX Ingress Controller for Kubernetes for SSL termination, routing, and load balancing

# How it works

By default, applications running in pods are not accessible from the external network, but only by other pods within the Kubernetes cluster. Kubernetes has a built-in configuration for HTTP load balancing, called Ingress, that defines rules for external connectivity to the pods represented by one or more Kubernetes services.

Users who need to provide external access to their Kubernetes services create an Ingress resource that defines rules, including the URI path, backing service name, and other information. An Ingress controller then automatically configures a frontend load balancer to implement the Ingress rules. The NGINX Ingress Controller configures NGINX or NGINX Plus to load balance Kubernetes services. NGINX Plus users benefit from enhanced load balancing, security, and monitoring functionality.

The following `example.yml` file creates a Kubernetes Ingress resource to route client requests to different services depending on the request URI and Host header.

```
apiVersion: extensions/v1beta1
kind: Ingress
metadata:
  name: cafe-ingress
spec:
  tls:
  - hosts:
    - cafe.example.com
    secretName: cafe-secret
  rules:
  - host: cafe.example.com
    http:
      paths:
      - path: /tea
        backend:
          serviceName: tea-svc
          servicePort: 80
      - path: /coffee
        backend:
          serviceName: coffee-svc
          servicePort: 80
```

*A simple Ingress resource for two services behind one SSL-secured endpoint*

# How to get started

To learn more about the NGINX Ingress Controller for Kubernetes and see the installation instructions, visit <https://github.com/nginxinc/kubernetes-ingress>.

**For more information, visit [nginx.com](https://nginx.com) or send us an email at [nginx-inquiries@nginx.com](mailto:nginx-inquiries@nginx.com)**