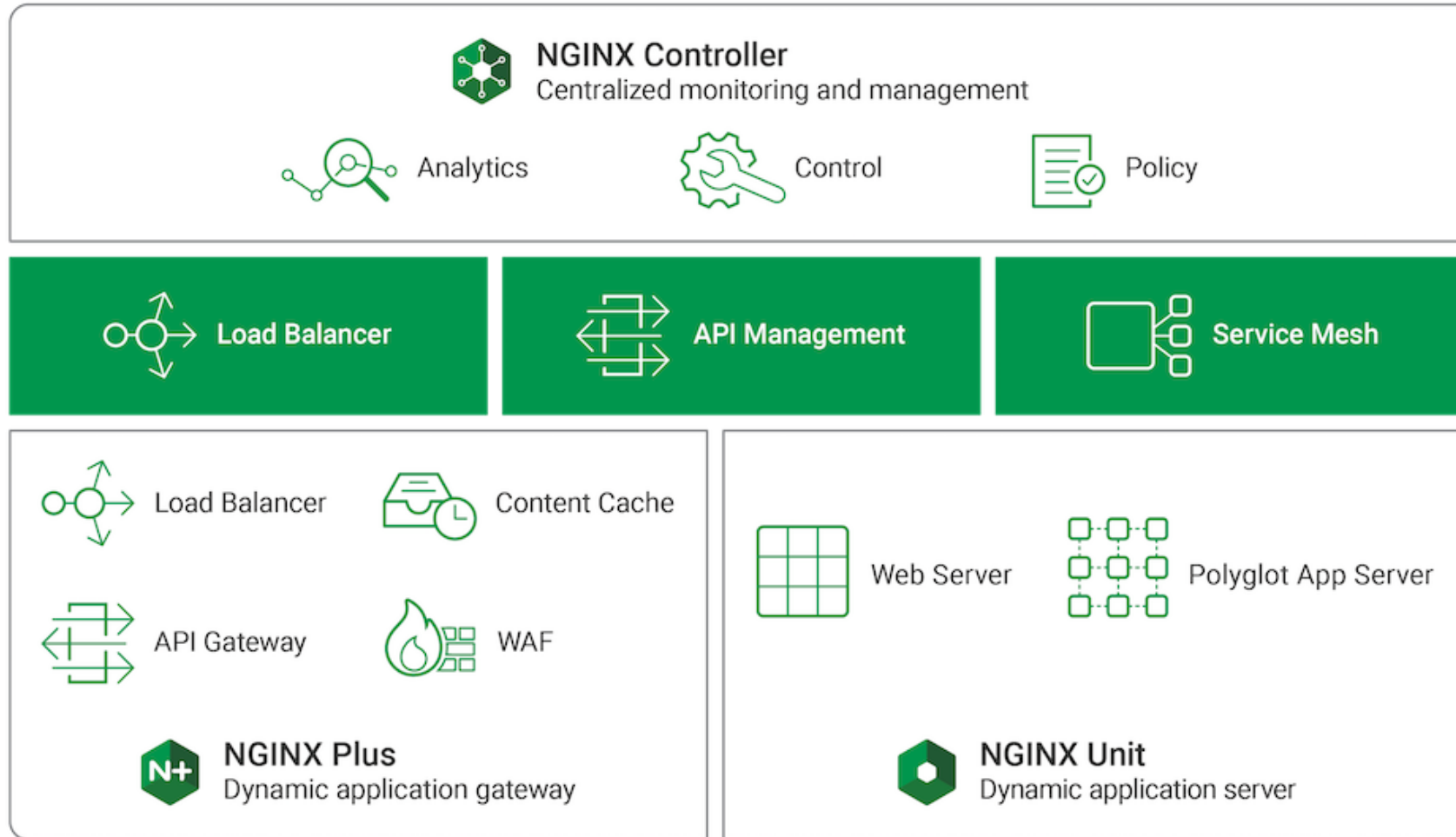


NGINX AS A K8S INGRESS



NGINX / F5



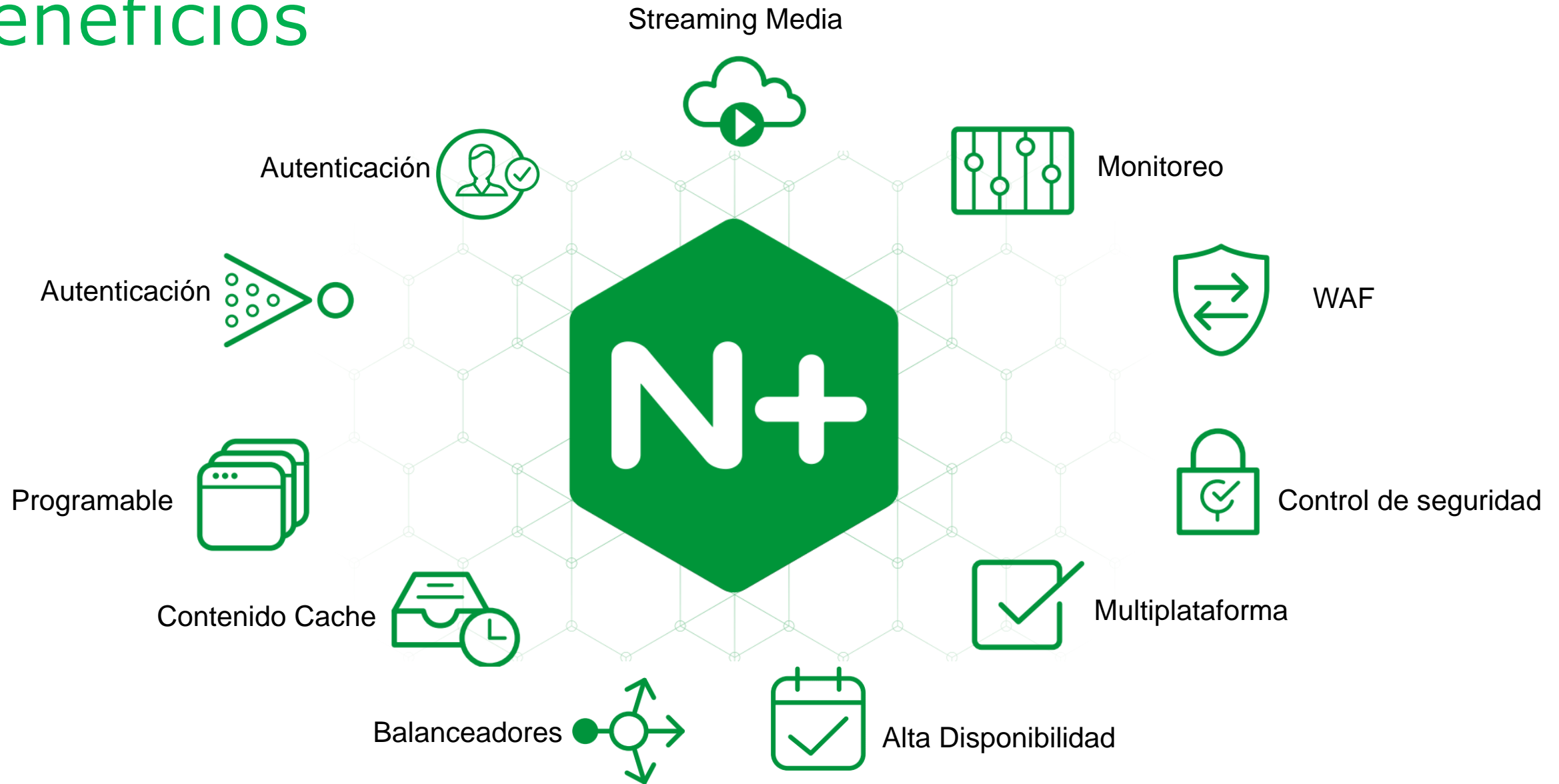
F5/NGINX+ VS NGINX OSS

Features	NGINX Open Source	NGINX Plus
Load balancer		
HTTP and TCP/UDP support	✓	✓
Layer 7 request routing	✓	✓
Session persistence		✓
Active health checks		✓
DNS service-discovery		✓
Content cache		
Static and dynamic content	✓	✓
Cache-purging API		✓
Web server and reverse proxy		
Origin server for static content	✓	✓
Reverse proxy: HTTP, FastCGI, memcached, SCGI, uwsgi	✓	✓
HTTP/2 gateway	✓	✓
gRPC proxy	✓	✓
HTTP/2 server push	✓	✓

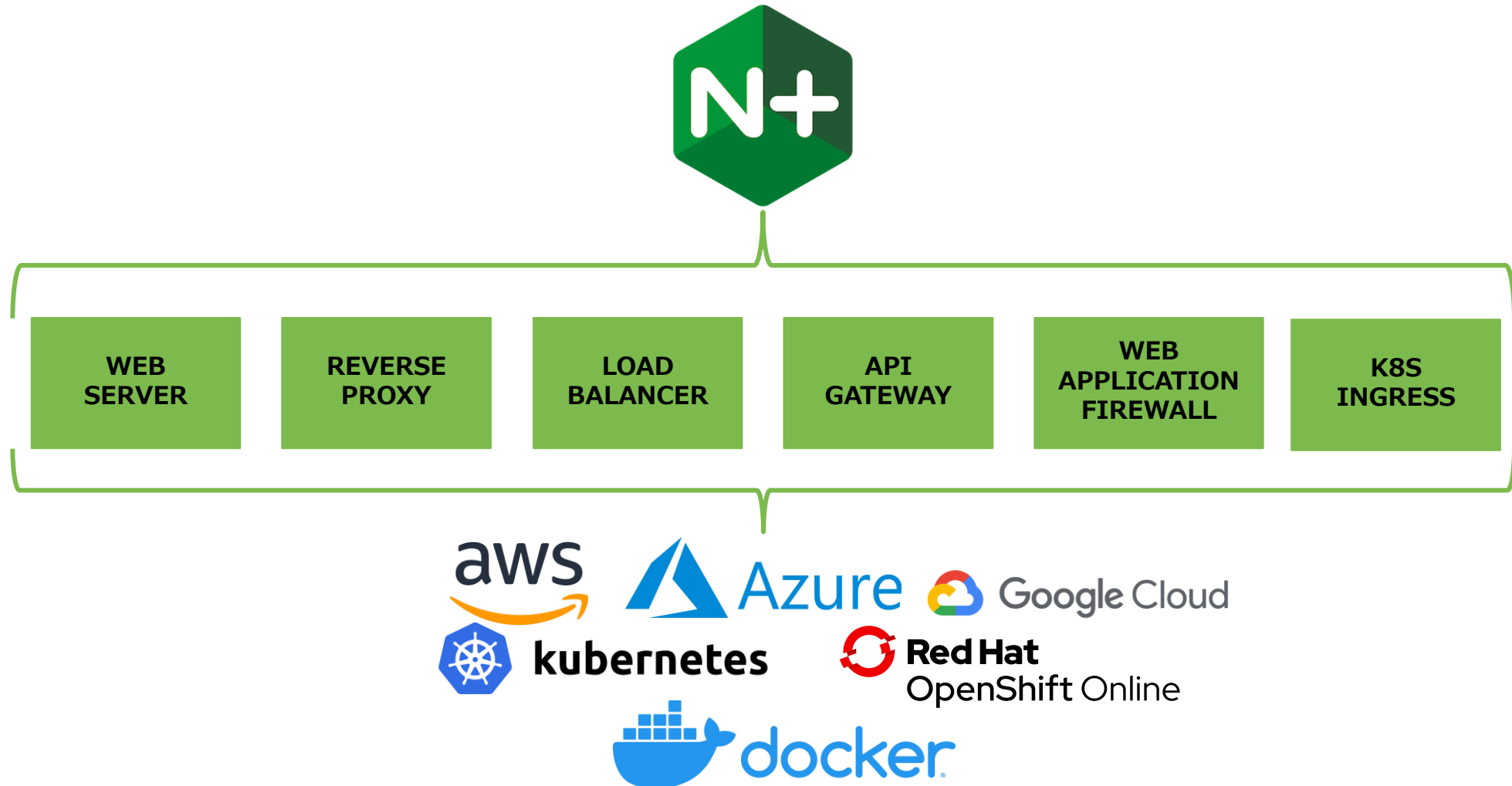
Features	NGINX Open Source	NGINX Plus
Security controls		
HTTP Basic Authentication	✓	✓
HTTP authentication	✓	✓
IP address-based access control	✓	✓
Rate limiting	✓	✓
Dual-stack RSA/ECC SSL/TLS	✓	✓
TLS 1.3 support	✓	✓
JWT authentication	✓	✓
OpenID Connect single sign-on		✓
NGINX App Protect (additional)		✓
Monitoring		
Export to external monitoring	✓	✓
Built-in dashboard		✓
Extended status with 100+		✓
High availability (HA)		
Active-active and active-passive		✓
Configuration synchronization		✓
State sharing: sticky-learn session persistence, rate		✓

Features	NGINX Open Source	NGINX Plus
Programmability		
NGINX JavaScript module	✓	✓
NGINX Plus API for dynamic		✓
Key-value store		✓
Dynamic reconfiguration		✓
Streaming media		
Live streaming: RTMP, HLS, VOD: Flash (FLV), MP4	✓	✓
Adaptive bitrate VOD: HLS, HDS		✓
MP4 bandwidth controls		✓
Third-party ecosystem		
Ingress controller	✓	✓
OpenShift Router	✓	✓
Dynamic modules repository		✓

Beneficios

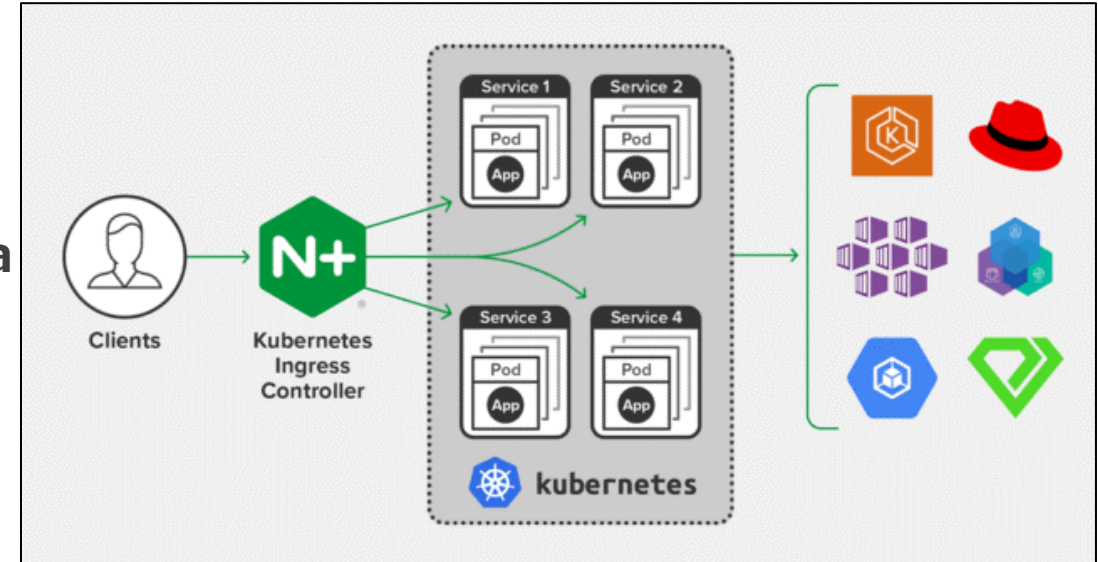


Diferentes casos de uso



CARACTERISTICAS

- 👤 Alto nivel de estabilidad.
- 👤 Compatibilidad con versiones a
- 👤 Alta velocidad.
- 👤 Métricas en tiempo real.
- 👤 Soporte para TCP/UDP.
- 👤 Métodos de balanceo

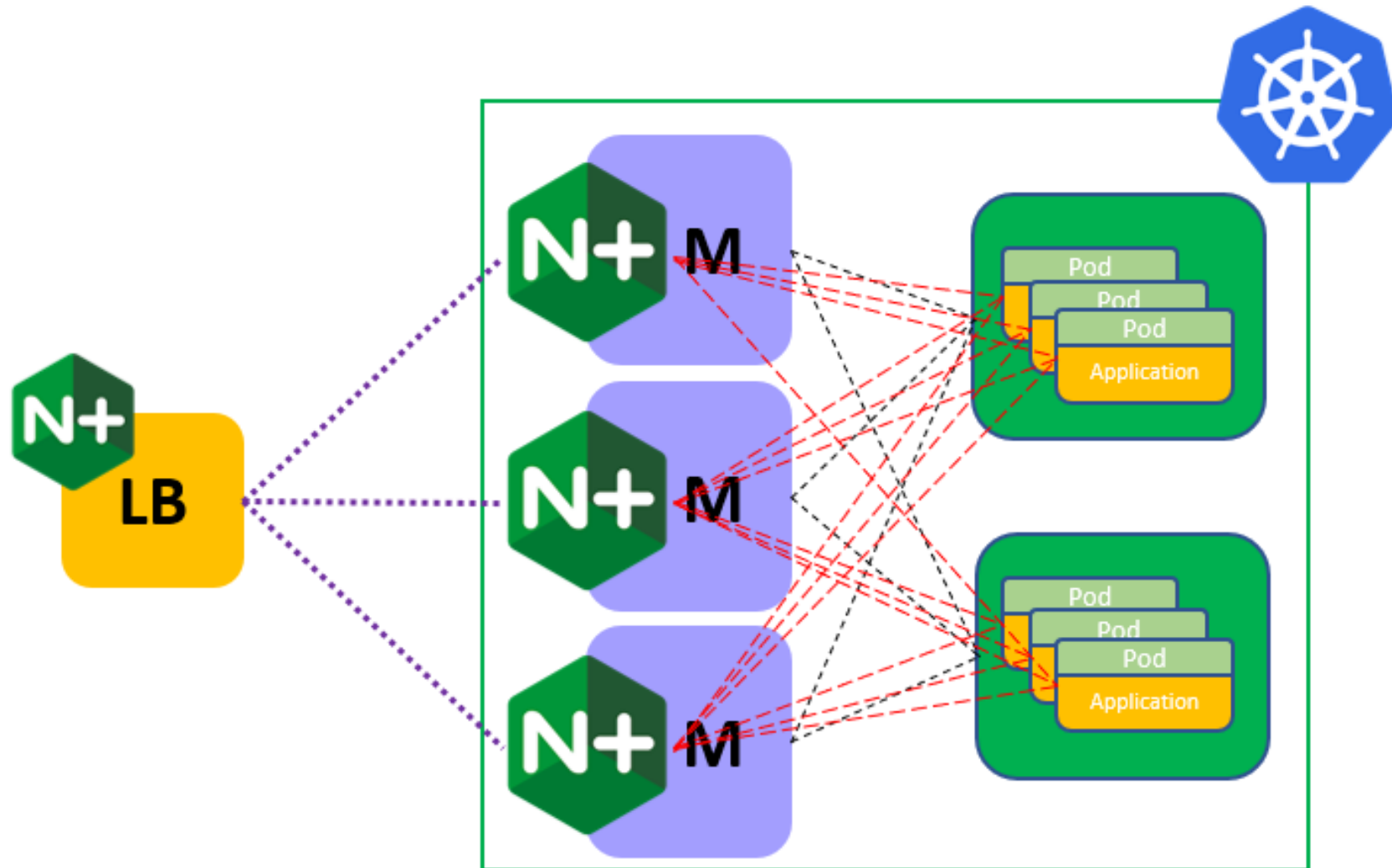


DIFERENCIAS



	Kubernetes Ingress	NGINX Ingress	Traefik
Protocolos	http/https, http2, grpc, tcp/udp(partial)	http/https, http2, grpc, tcp/udp	http/https, http2(h2c), grpc, tcp,tcp+tls
Basado en	NGINX	NGINX/NGINX PLUS	Traefik
Enrutamiento de tráfico	host, path(with regex)	host, path, header, method, query param (all with regex expect host)	host(regex), path(regex), headers(regex), query, path prefix, method
Limitaciones de Namespace	Todo el cluster o namespaces especificos	Todo el cluster o namespaces especificos	Todo el cluster o namespaces especificos
Distribución de tráfico	canary, a/b (balanceo por cookie)	canary, a/b (reglas de ruteo), blue-green (servicio en upstream)	canary, blue-green, shadowing
Metodos upstream	retry, timeouts	retry, timeoutt, active health checks	retry, timeouts, active, circuit breaker
Load Balancing	round-robin, sticky sessions, least-conn, ip-hash	round-robin, sticky sessions, least-conn, ip-hash, hash, random, least-time, sticky-sessions	weighted-round-robin, dynamic-round-robin, sticky-sessions
Autenticación	Basic, client cert, external basic, external Oauth	Basic, client cert, external basic, external Oauth	Basic, auth-url, auth-tls, external auth
Suscripción de pago	-	Si	Si
GUI	-	Si	Si

ARQUITECTURA



Leyenda



Nodo maestro que publicara la regla de Ingress para la salida de aplicaciones



Balanceador por delante del Cluster para redirigir las solicitudes a las aplicaciones

