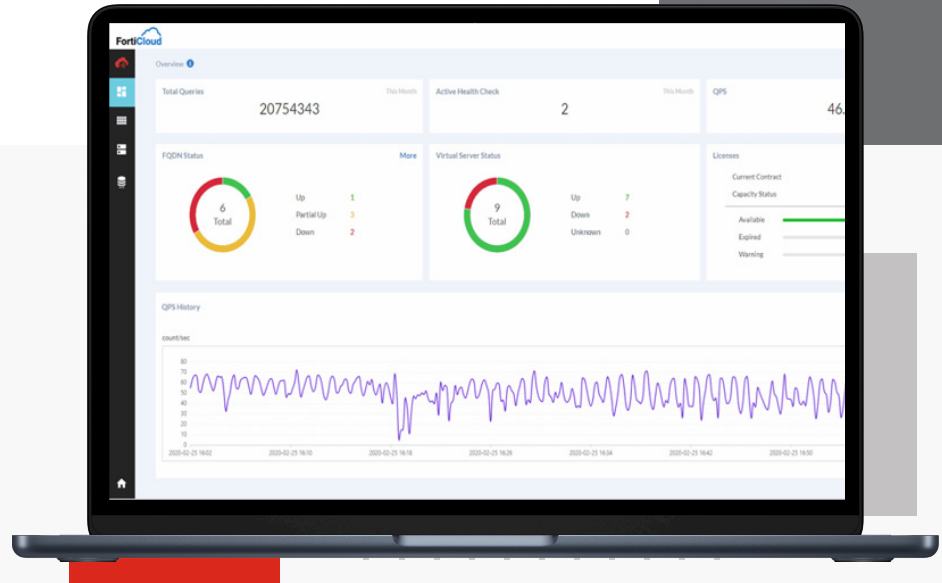


# FortiGSLB™ Cloud



## Highlights

### DNS-Based Global Server Load Balancing

Traffic distributed to multiple servers ensures optimal performance and reliability.

### Health Checks

Monitor application endpoints and cloud services health for proactive resource management.

### Business Continuity

Dynamic traffic rerouting based on health checks, Geo-location, and application RTT minimizes the impact of disruptions.

### Ease of Deployment

Simplified and effective GSLB solution.

## Ensuring Business Continuity Through Global Server Load Balancing

Running a globally distributed application necessitates a robust strategy to address disruptions and ensure uninterrupted connectivity. Global redundancy involves implementing redundant hybrid applications (on-prem and on-cloud) to mitigate the impact of disruptions, enhance resilience, and maintain connectivity even in the face of application challenges.

For a demo and more info, please visit:

<https://www.fortigslb.com/#/login>

## Highlights

### Autoscale Solution

- No hardware performance bottleneck
- Stackable license to increase performance
- Eliminates need to accurately estimate application volume in advance

### Intelligent Traffic Management

- Advance load balancing according to server/site availability
- Supports DNS services and load balancing-based application health

### Improved Performance

- Deliver to closest servers based on geography
- Performance-based routing based on client-driven performance metrics
- Reduced latency and increased application responsiveness

### Improved Risk Management

- Automate detection and execution of failover services
- Customizable health checks with choice of protocols and parameters: Ping, DNS, TCP, HTTP/S, layer-7 Response code or content

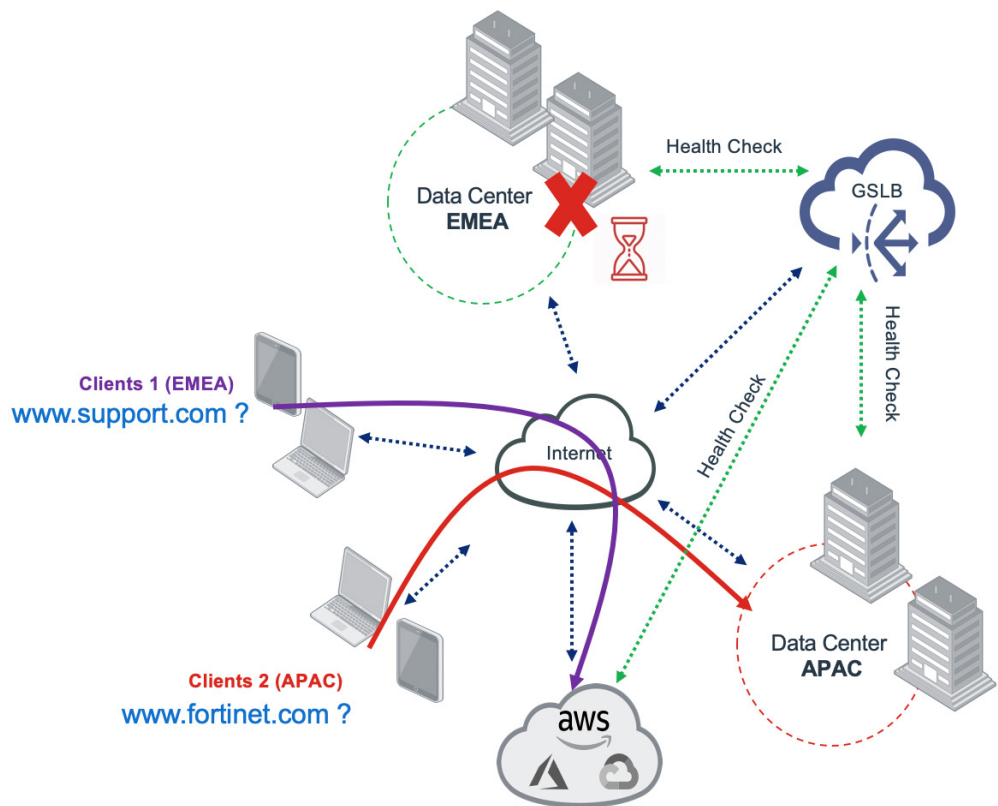
## Introduction

FortiGSLB Cloud is a DNS-based service designed to guarantee business continuity by keeping applications online and available, even in the face of localized application issues. Using custom health checks, the Global Server Load Balancing (GSLB) solution monitors application endpoints or cloud services. It aims to optimize the availability, user experience, and application security of enterprise applications.

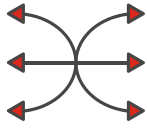
## Deployment

### How it works?

FortiGSLB Cloud provides load balancing across multiple datacenters (active/active) and cloud applications based on GSLB Cloud Policies, with site selection according to application/server availability (health checks) and client geolocation.



## Key Features



### Intelligent Traffic Management

FortiGSLB optimizes client requests for a specific domain by dynamically distributing the workload across virtual servers, data centers, and locations. You can route traffic to your network resources based on geography, server performance (CPU/memory) and load, measured client and network performance, weighted distributions, consistent (sticky) routing, and more.



### Advanced Health Check

FortiGSLB Cloud monitors your application end points or your cloud services based on configurable health checks. All of your resources are monitored continuously in real-time. Customizable health checks let you choose your protocol and parameters, from simple ping to an Application layer-7 response content match.



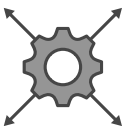
### DNS Services

FortiGSLB offers full DNS Services (Primary and Secondary), includes DNSSEC and standard DNS Zone and full support with the following resources types as A/AAAA record, CNAME, NS, MX, TXT, SRV, and PTR.



### Synthetic Testing

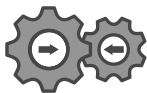
Synthetic testing checks applications availability by sending probes to applications from FortiGSLB cloud. It can be used to monitor application website services or application endpoints at various network layer, and the results of these tests can provide valuable information on application up/down time, availability, and regional performance issues.



### Fabric Connectors

FortiGSLB is part of Fortinet Security Fabric with multiple connectors to FortiADC, SD-WAN and FortiGate.

The configuration on the FortiGSLB will be automatically sync the VIP, SD-WAN configuration from the FortiGate or FortiADC through RestAPIs.

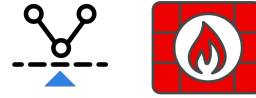
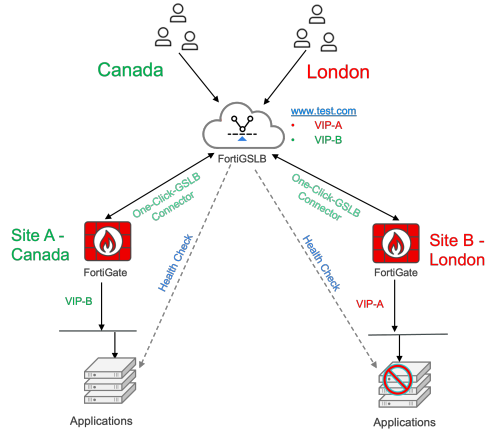


### Seamless Failover to Second Closest Service

- Zero software/hardware needed
- No hardware performance bottleneck
- Managed via web interface
- Integrated API with Fortinet family
- One-click GSLB: Automate on-premise FortiADC configuration to FortiGSLB via API

## Use Cases

Application Anywhere with FortiGate ZTNA and VIP, more info [here](#)



### Application Anywhere with FortiGate

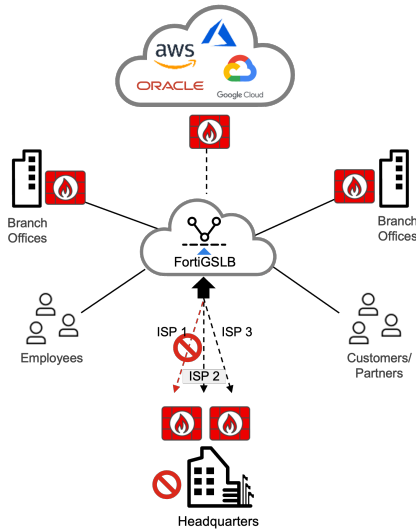
Enabling One-Click GSLB on FortiGate to synchronize the FQDN of the FortiGate VIP or ZTNA Policy

Improve Client QoE, application latency and business continuity

#### Optimize Application Access:

- Publish a new FQDN in a second
- Automation via "One-Click-GSLB"
- Service Continuity
- Improve user QoE
- Multi-site visibility
- LB decision according to Geo-IP, load, latency, and application availability

## Fortinet Secure SD-WAN for Hybrid and Multi-Clouds



### Optimize SD-WAN

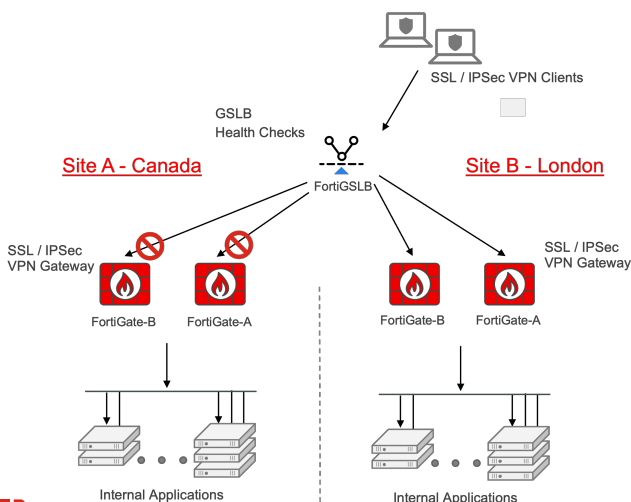
Ensure SD-WAN traffic follows optimal paths based on network and device performance checks.

SD-WAN Orchestration Across Clouds and Data Centers

#### Optimization of SD-WAN:

- Increase network efficiency
- Full WAN optimization
- Service continuity during a disaster or attack
- Improve user QoE

## VPN Always-On using FortiGSLB



### Speed Fortinet VPN Gateways

Direct VPN clients to the optimal VPN gateway by tracking the health/performance of FortiGates.

Improve Client Experience by Ensuring VPN Traffic Follow Best Available Path

#### Optimize VPN performance:

- Improved VPN performance
- Improve user QoE
- Increase availability of VPN
- Scale FortiGates
- Always-On



## Feature Summary

### GSLB Benefits

- ANYCAST support - Multi-Region (US/EMEA and APAC) deployment of FortiGSLB for best response time
- Advanced global server load balancing
- Rolls out in minutes (no migration/coding necessary)
- Easy to deploy
- Integration with Fortinet family products

### DNS Services

- Primary and Secondary DNS Server
- DNSSEC Support
- Support IPv4 and IPv6
- FQDN and zone services
- Advanced DNS policy
- Support DNS records:
  - A/AAAA (address record)
  - CNAME (canonical name record)
  - MX (mail exchange record)
  - NS (name server record)
  - PTR (pointer record)
  - SRV (service locator)
  - TXT (text record)
- Service selection:
  - Weight: DNS queries are load-balanced by weight.
  - DNS-Query-Origin: DNS queries are load-balanced to the pool with the same geographic information.
  - Global Availability: DNS queries are load-balanced to the first available pool.

### Management

- License visibility
- Central view (grid and list)
- Monitoring and site overview
- DNS history statistics

### Health Check

- Support for various application/protocol validations:
  - TCP port
  - TCP echo
  - ICMP
  - DNS
  - UDP
  - HTTP (GET/HEAD/Connect)
  - HTTPS (SSL validation, TLS 1.2, 1.3)
- Health check match for user/password, hostname, string validation, response code
- AND/OR relationship

### Load Balancing

- **GEO:** FortiGSLB performs load balancing according to the request's source geographic location.
- **Least Connection:** FortiGSLB Cloud load balances traffic to the virtual server with the least connections.
- **Connection Limit:** FortiGSLB Cloud performs load balancing according to the virtual server connection limit determined by the virtual server weight. The greater a virtual server weight, the more responses it gets.
- **Bytes Per Second (BPS):** FortiGSLB Cloud load balances traffic to the virtual server with the least BPS.
- **Server Performance:** FortiGSLB Cloud load balances traffic to the server with the lowest load (memory and CPU). Virtual servers with better server performance in the CPU or memory (whichever one you give more weight to) respond.

### Security Fabric

- FortiADC
- FortiGate SD-WAN
- FortiGate SSL-VPN
- FortiGate ZTNA/VIP
- FortiWeb



## Ordering Information

Product	SKU	Description
FortiGSLB Cloud Service	FC2-10-CGSLB-330-02-DD	FortiGSLB Cloud Service - 100 QPS (queries per second) - Annual Subscription. Includes 24x7 FortiCare. Select Health Checks separately.
	FC3-10-CGSLB-330-02-DD	FortiGSLB Cloud Service - 500 QPS (queries per second) - Annual Subscription. Includes 24x7 FortiCare. Select Health Checks separately
	FC4-10-CGSLB-330-02-DD	FortiGSLB Cloud Service - 1000 QPS (queries per second) - Annual Subscription. Includes 24x7 FortiCare. Select Health Checks separately
FortiGSLB Cloud Service with Additional Advanced Health Checks	FC1-10-CGSLB-332-02-DD	FortiGSLB Cloud Service - Additional 2 Advanced Health Checks.
	FC2-10-CGSLB-332-02-DD	FortiGSLB Cloud Service - Additional 10 Advanced Health Checks.
	FC4-10-CGSLB-332-02-DD	FortiGSLB Cloud Service - Additional 100 Advanced Health Checks

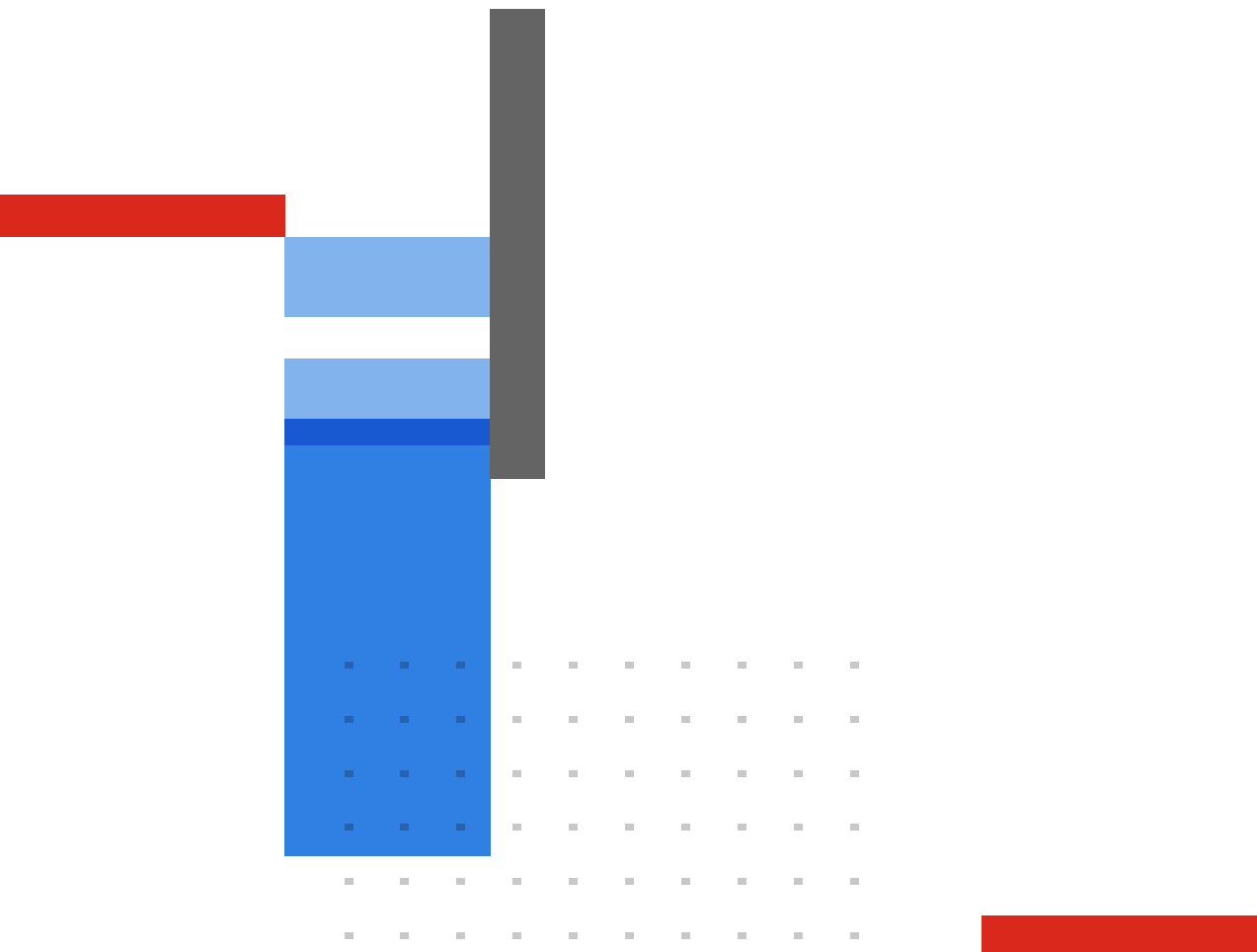
Annual fee based on a DNS QPS and health checks.  
Stackable license.



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