

load balancers

Table of contents

- [Notes](#)
- [Distribution modes](#)
- [Health Probes](#)
- [Links](#)

4 types

- Azure load balancers (Regional load balancer)
 - only for HTTP
- Application load balancers (Regional load balancer)
 - only for HTTPS
- Front door + CDN (Content Delivery Network) (Global)
 - HTTPS
- Traffic manager (Global)
 - HTTP

We can utilize the Application and traffic manager using **WAF**

Notes

- used 5-tuple hash algorithm.
 - Source IP
 - Source Port
 - Destination IP
 - Destination Port
 - Protocol
- Does not interact with a payload
 - No SSL inspection or HTTP/HTTPS header rewrite.

Select a Load Balancer Solution

- **Basic Load Balancers** allow:

1. Port Forwarding
 2. Automatic Reconfiguration
 3. Health Probes
 4. Outbound connections through source network address translation (SNAT)
 5. Diagnostics through Azure Log Analytics for public-facing load balancers.
- **Standard Load Balancers** support all basic features and allow:
 1. HTTPS Health Probes
 2. Availability Zones
 3. Diagnostic through Azure Monitor, for Multidimensional Metrics
 4. High Availability (HA) Ports
 5. Outbound Rules
 6. A guaranteed SLA (99.99% for two or more virtual machines in different zones)
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Distribution modes

- Client IP (2-tuple) -
 - Sessions from a client IP are handled by the same backend instance
- Client IP and Protocol (3-tuple)
 - Sessions from a client IP and protocol are handled by the same backend instance



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Health Probes

- Standard SKU
 - TCP
 - HTTP
 - HTTPS
- Basic SKU
 - TCP

- HTTP

Tests the availability of the servers in the backend pool.

Links

[public-load-balancers](#)

[internal-load-balancers](#)
