HORIZONTAL COMPARISON OF LOAD BALANCING, AUTO-SCALING & SERVERLESS COMPUTING

AWS VS MICROSOFT AZURE VS GOOGLE CLOUD PLATFORM









Azure Load Balancer

- Works at the transport layer (Layer 4 in OSI), providing network-level distribution of traffic across instances of an application running in the same Azure data center (using TCP & UDP)
- Application Gateway
 - Works at the application layer (Layer 7 in OSI), acting as a reverse-proxy service, terminating the client connection and forwarding requests to backend endpoints.
- Traffic Manager
 - Works at the DNS lever, using DNS responses to direct end-user traffic to globally distributed endpoints, clients then connect to those endpoints directly.



Azure Load Balancer Application Balancer

Traffic Manager

Basic Load Balancer Standard Load Balancer



Features	Basic Load Balancer	Standard Load Balancer	
Internet-facing load balancing		⊘ +	backend pool size 1000 instances standalone VM without availability set new diagnostic insights
Service monitoring (probes)	 Guest Agent Probe HTTP custom Probe TCP custom Probe 	:	Guest Agent Probe HTTP custom Probe TCP custom Probe
Distribution mode	 Hash-based distribution Source IP affinity mode 	② :	Hash-based distribution Source IP affinity mode
Internal load balancing		⊘ +	HA high availability ports, reliability
Forward external traffic to VM		⊘ +	new diagnostic insights
Zone redundancy (availability)	3	⊘ +	cross-zone load balancing
NSG required for all VMs	3		load balancer standard SKUs or Public IP Standard SKUs.
Outband traffic NAT		+	new SNAT model for greater resiliency
Automatic reconfiguration			







