

Securing and Managing Traffic with Azure App Services

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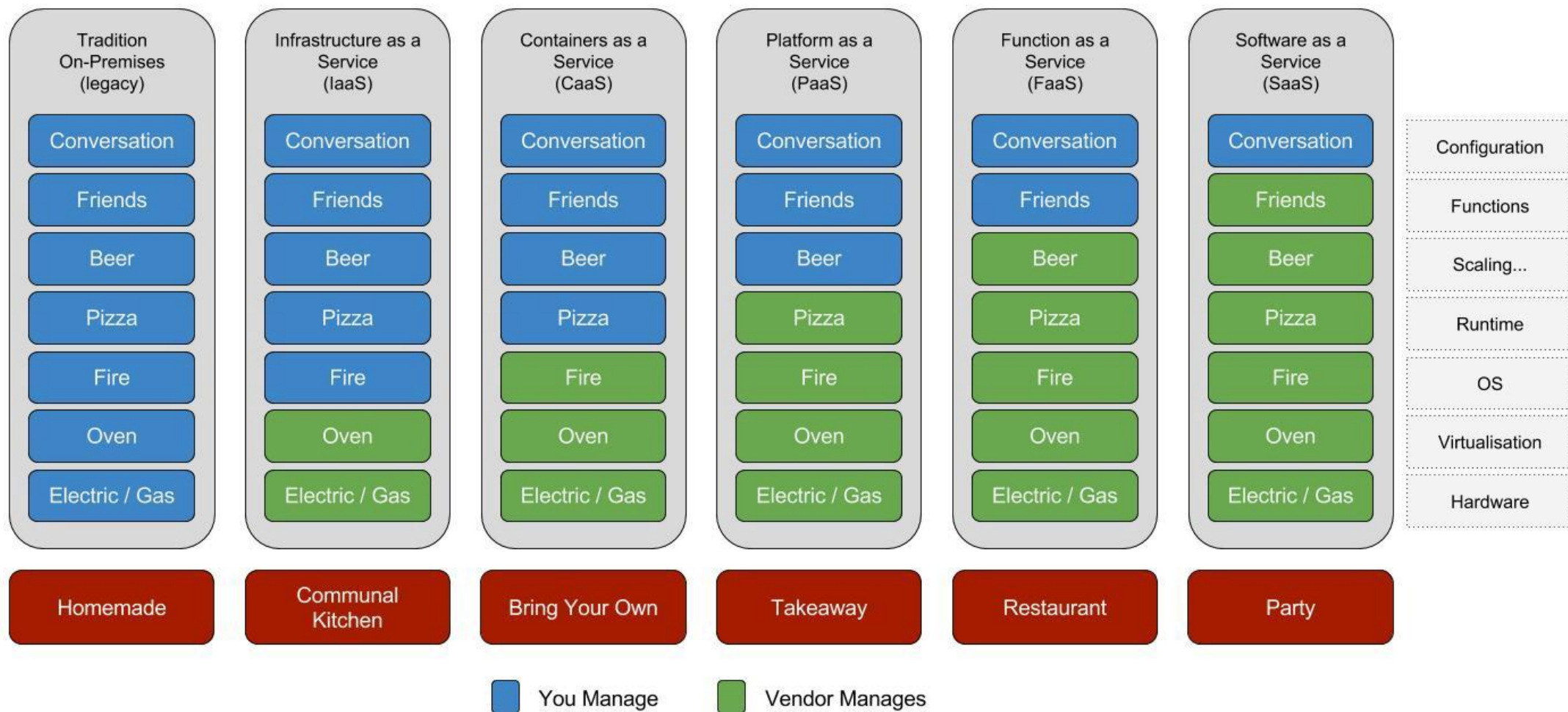
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Pizza as a Service 2.0

<http://www.paulkerrison.co.uk>



App Services Capabilities

(off the top of my head)

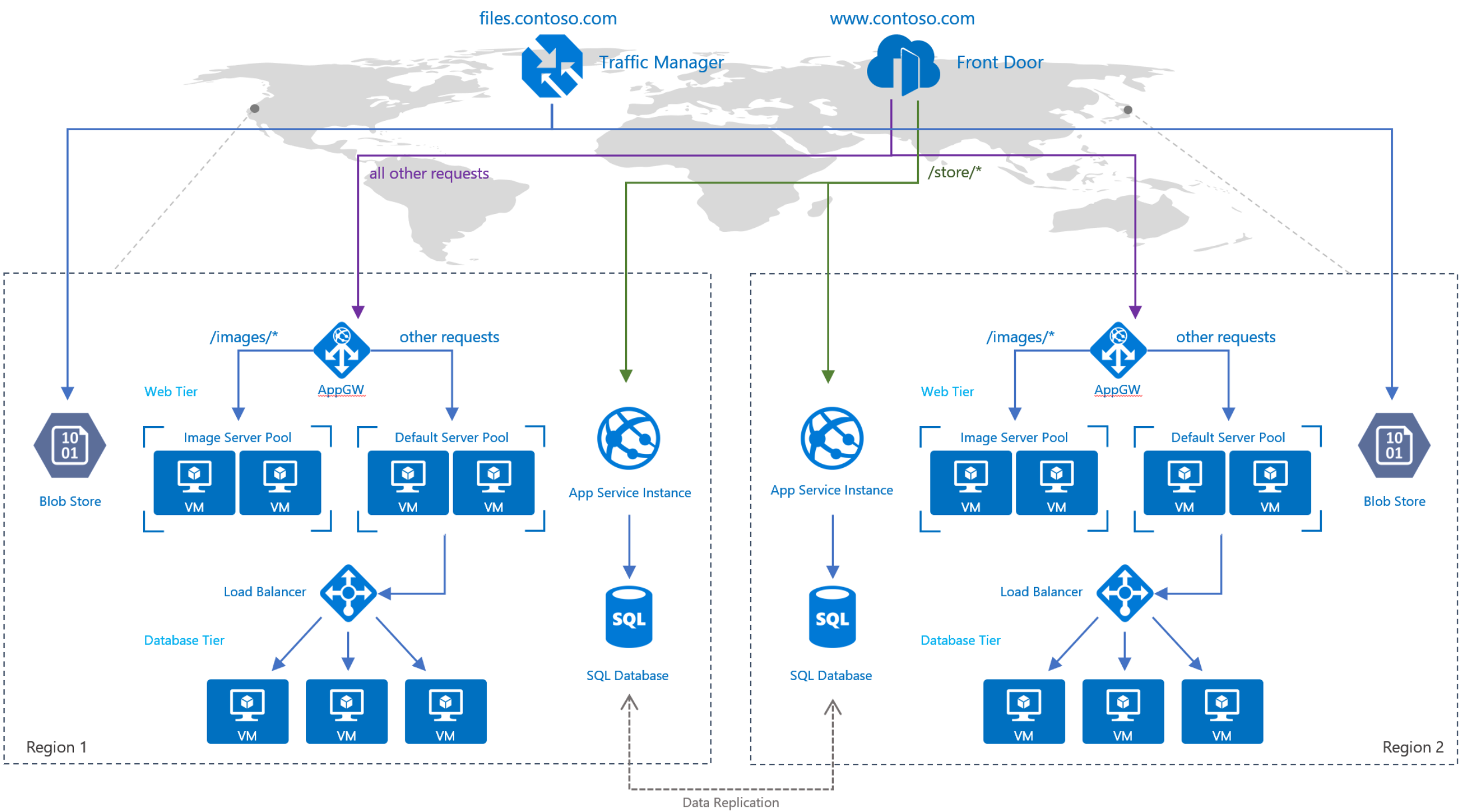
- Host Web Applications
 - SPAs
 - REST/SOAP API Services
 - .NET, .NET Core, PHP, Python, Java
 - Host Containers
 - Linux or Windows containers
 - Single or Docker Compose
 - Scale
 - Auto-horizontal scaling
 - Scale-up
-
- Easy Authentication
 - Custom Domain / SSL Certs
 - Backups
 - VNET Integration

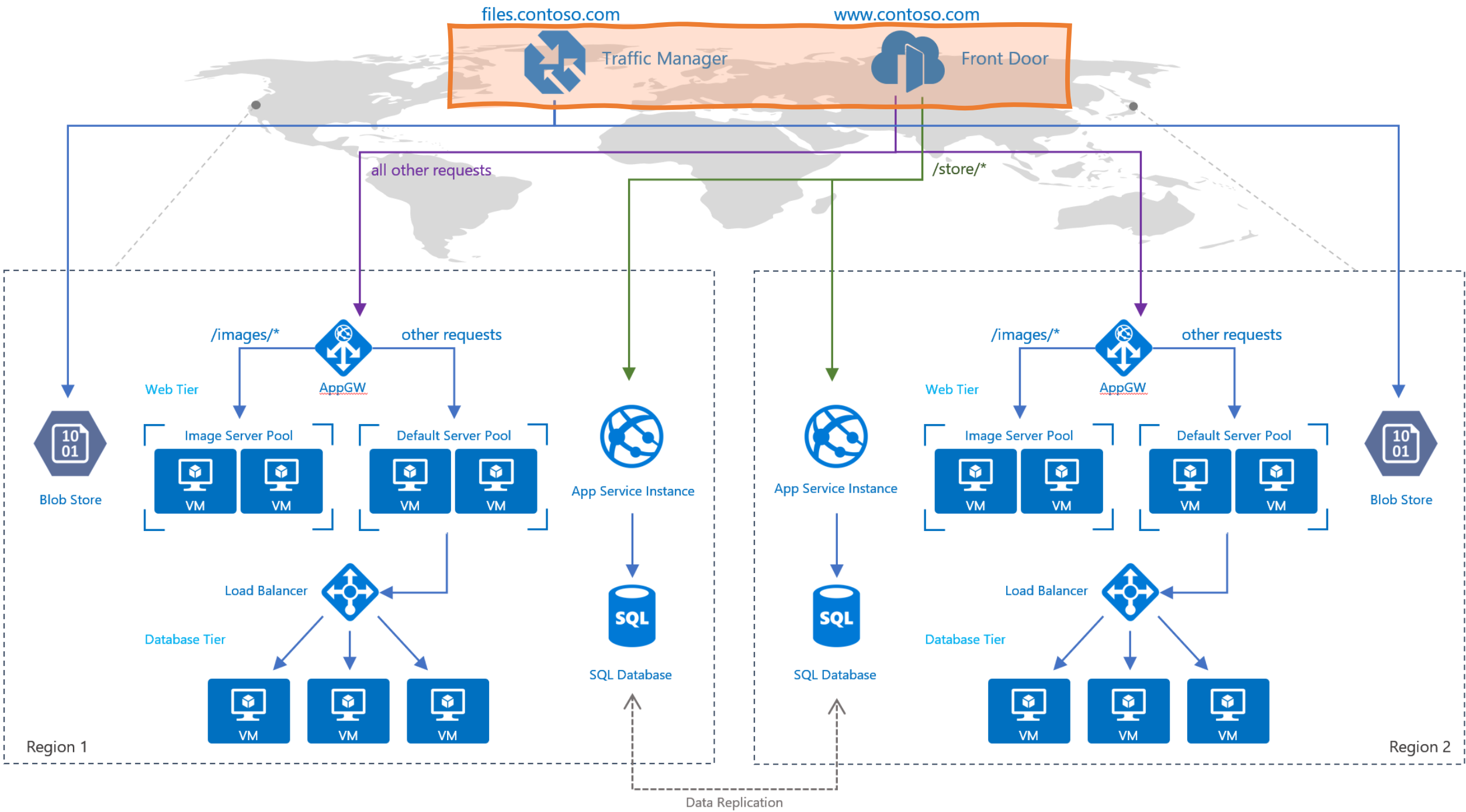
DEMO

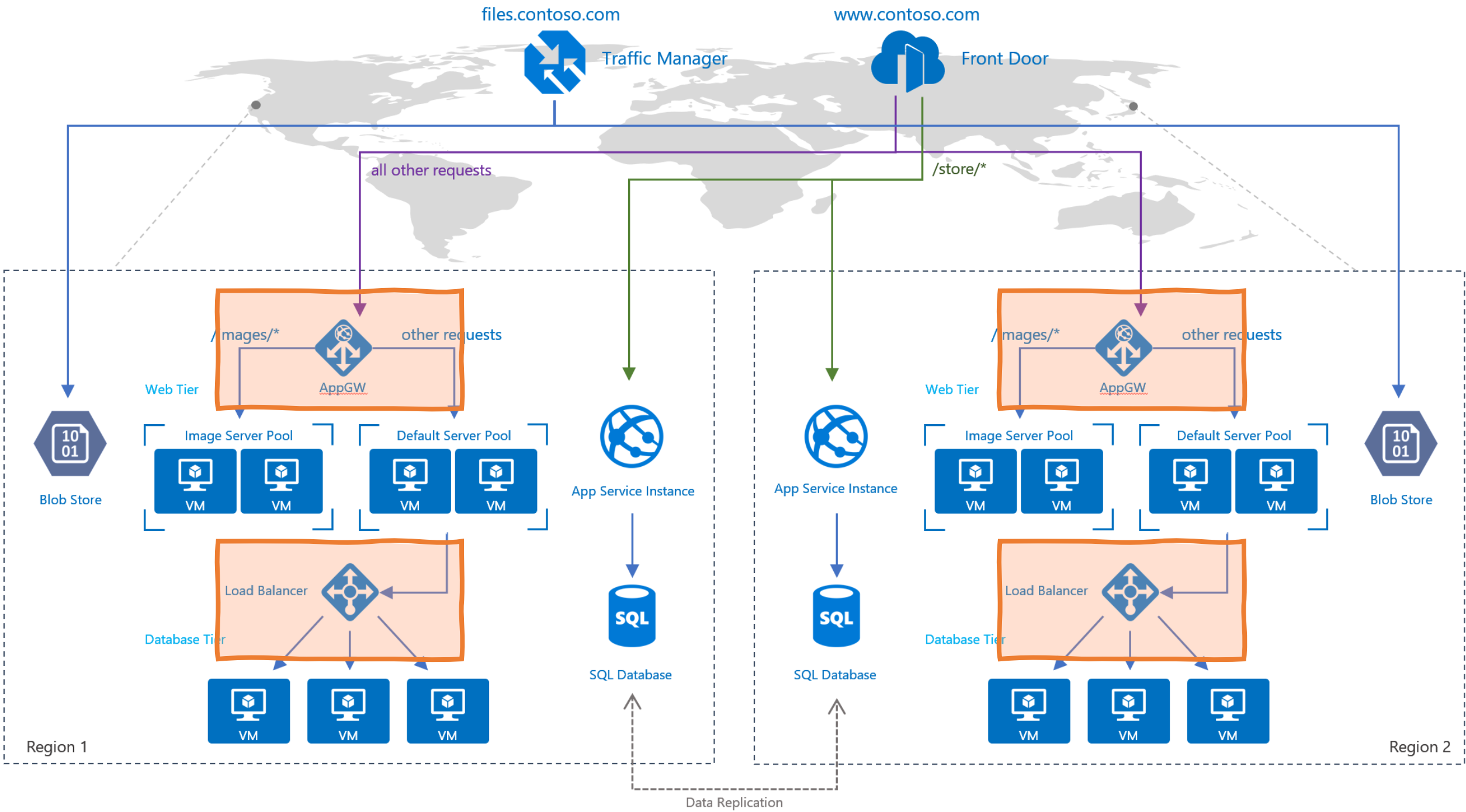


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Global Load Balancers

Traffic Manager

Any protocol: Because Traffic Manager works at the DNS layer, you can route any type of network traffic; HTTP, TCP, UDP, etc.

On-premises routing: With routing at a DNS layer, traffic always goes from point to point. Routing from your branch office to your on-premises datacenter can take a direct path; even on your own network using Traffic Manager.

Billing format: DNS-based billing scales with your users and for services with more users, plateaus to reduce cost at higher usage.

Front Door Service

HTTP acceleration: With Front Door traffic is proxied at the Edge of Microsoft's network. Because of this, HTTP(S) requests see latency and throughput improvements reducing latency for SSL negotiation and using hot connections from AFD to your application.

Independent scalability: Because Front Door works with the HTTP request, requests to different URL paths can be routed to different backend / regional service pools (microservices) based on rules and the health of each application microservice.

Inline security: Front Door enables rules such as rate limiting and IP ACL-ing to let you protect your backends before traffic reaches your application.

Regional Load Balancers

Load Balancer

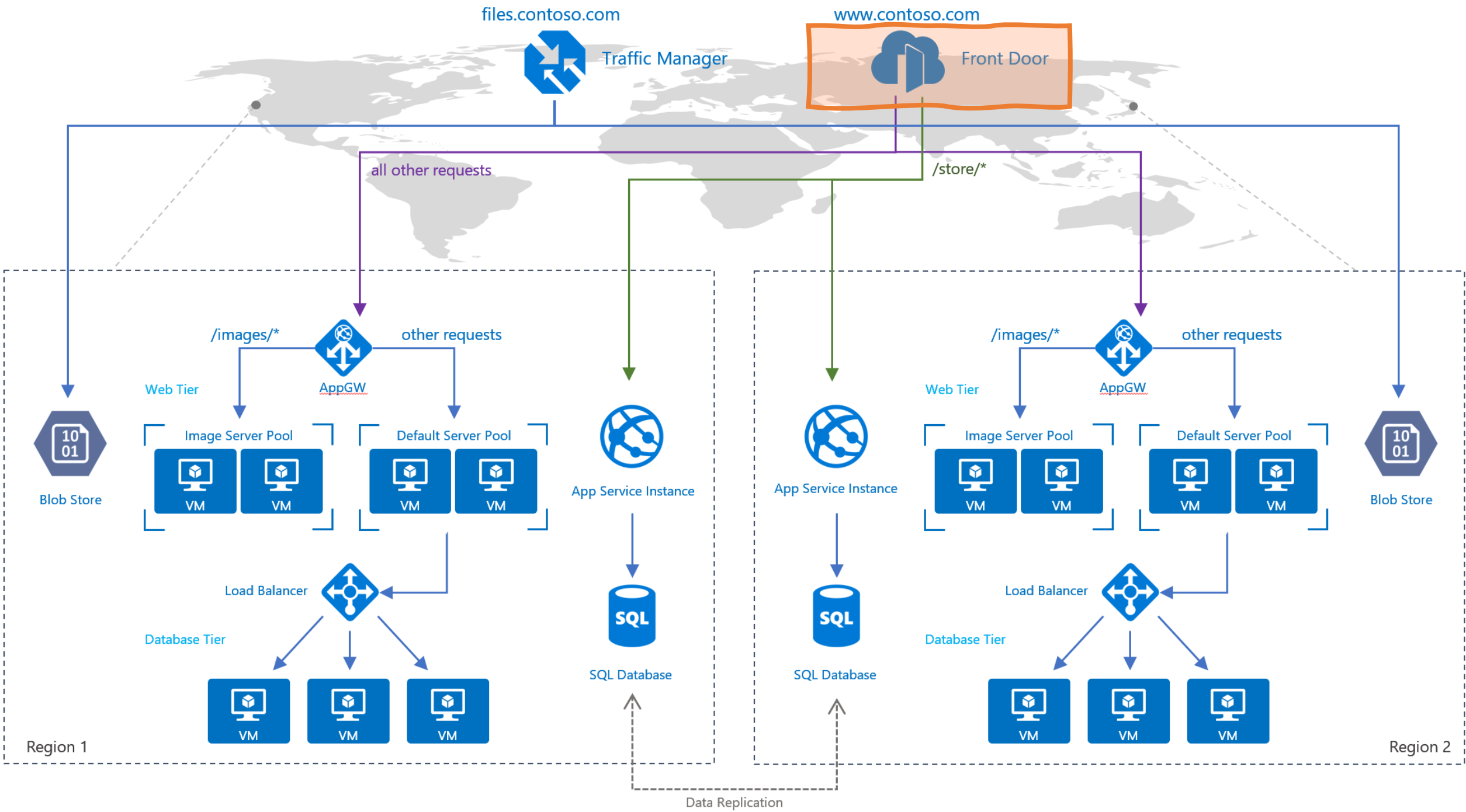
Any TCP/UDP protocol: Because Load Balancer is a layer-4 virtual appliance, it can load-balance any of HTTP, TCP, UDP, etc.

On-premises routing: Can route traffic both internally and to public-facing endpoints; used to route traffic to VMs and Cloud Services

Application Gateway

Layer-7 Features: SSL Offload, WAF, URL/Host-based routing, HTTP redirection, etc

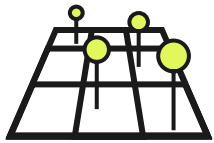
On-premises routing: Same as Azure Load Balancer, can route both to internal and external endpoints and can target *any* IP Address.



Azure Front Door Service

Global secure service front-end at edge

- Global, HA, performant internet web services
- B2C, Commerce, Gaming, Financial Services
- B2B, API, Auth Services, Telco
- Internet-first LOB Apps



Global HA, BCDR

Enable fast-failover for regional services, microservices at the Edge with a robust



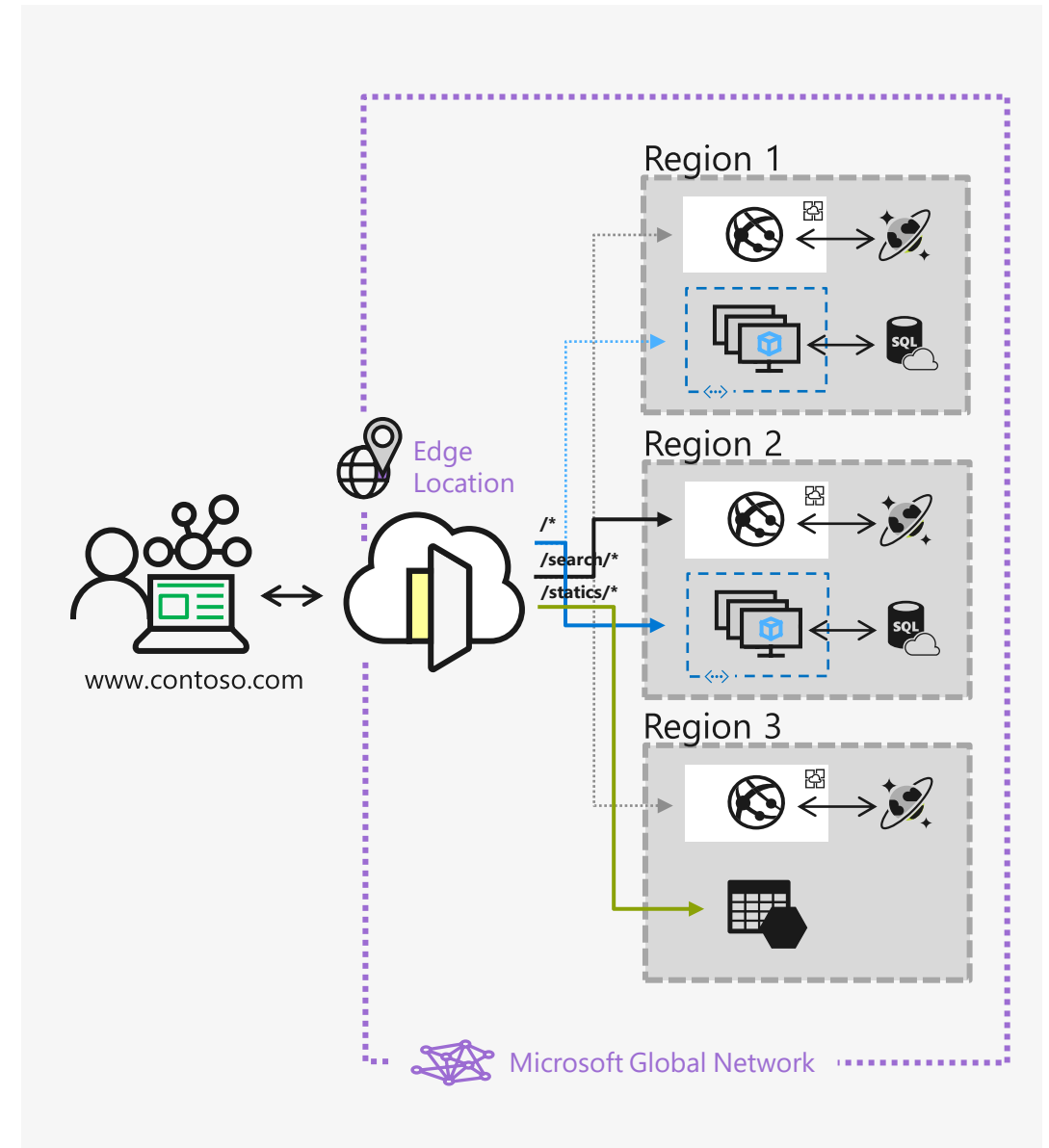
Security at the Edge

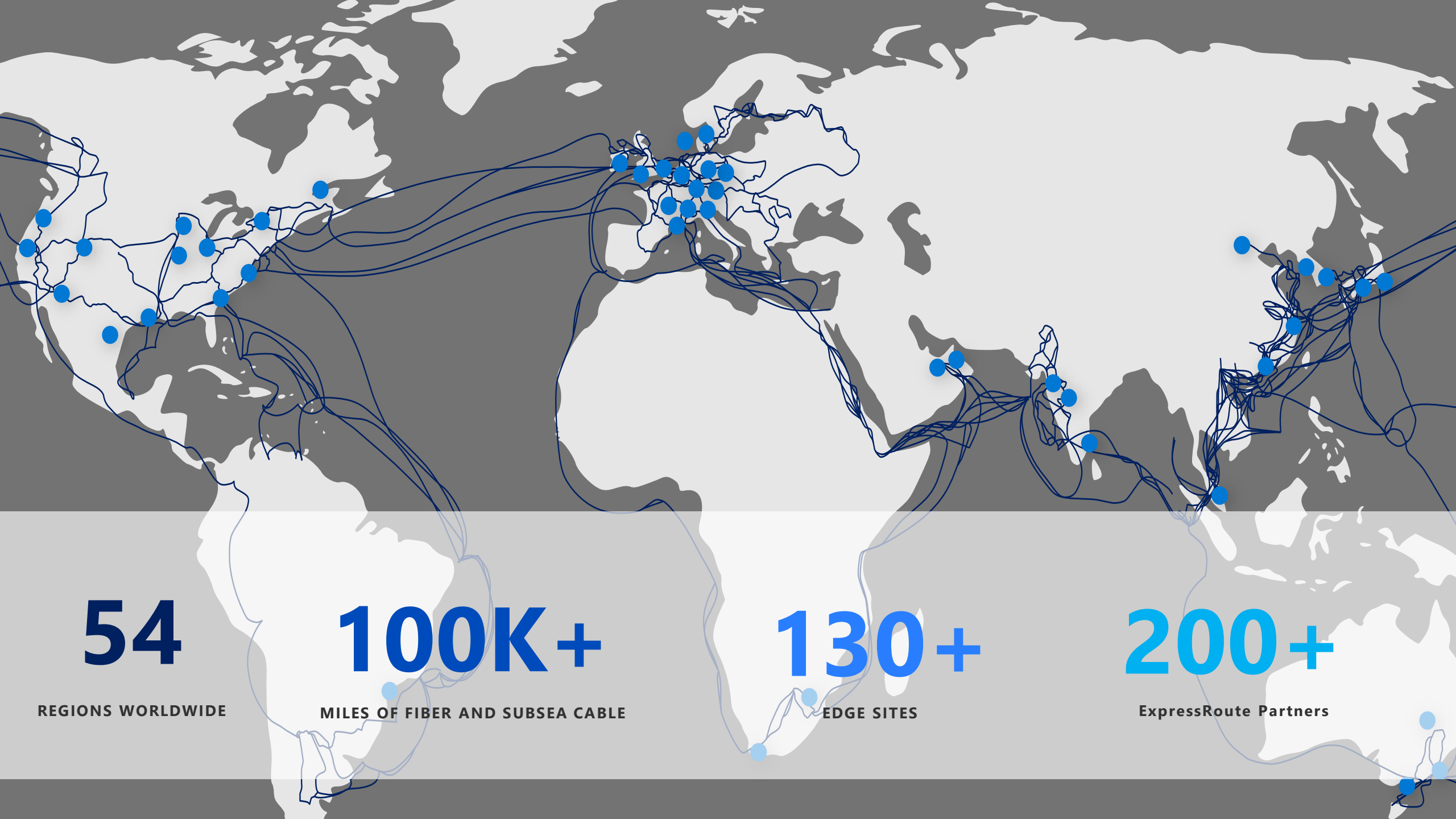
Stop threats where they come from at the edge with customizable access control and rate limiting



Faster Apps

Reduce latency and increase throughput for apps by offloading SSL at the edge and accelerating requests





54

REGIONS WORLDWIDE

100K+

MILES OF FIBER AND SUBSEA CABLE

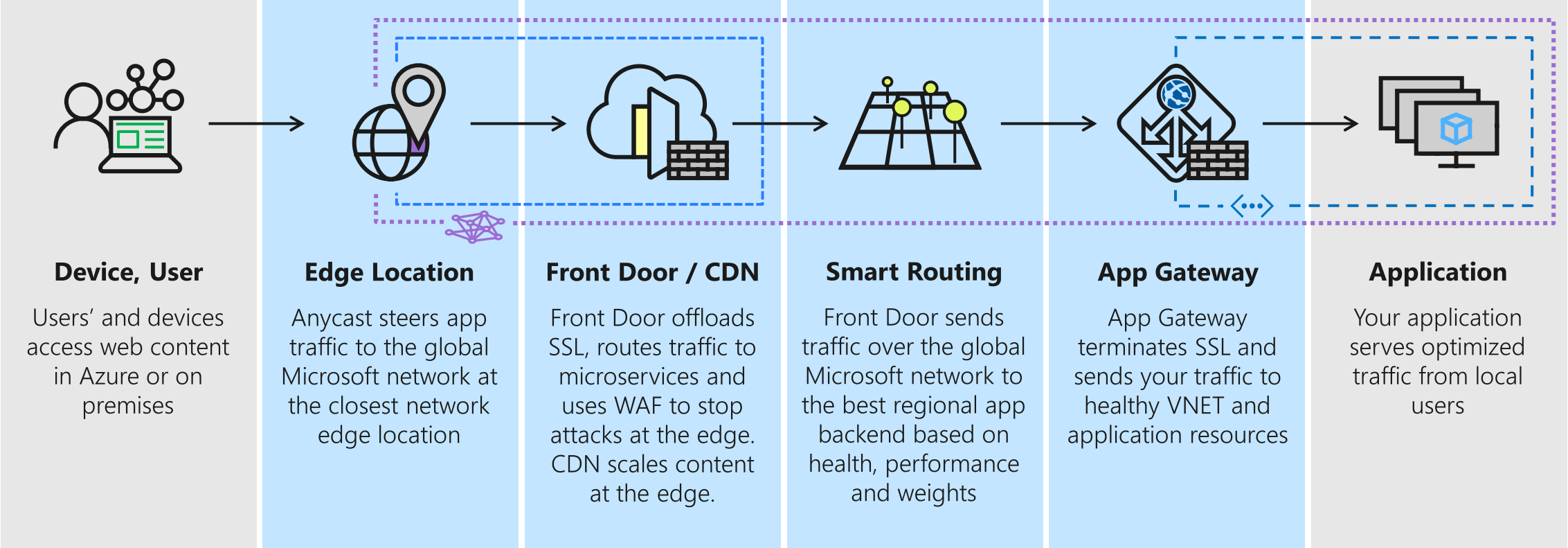
130+

EDGE SITES

200+

ExpressRoute Partners

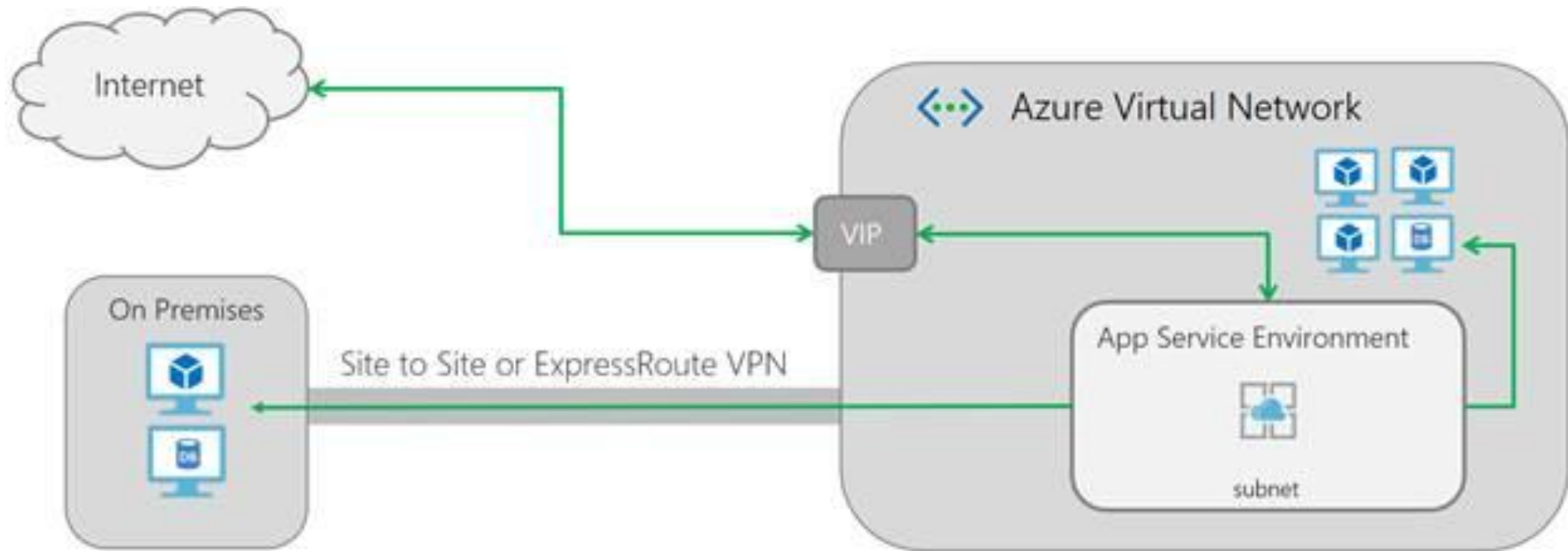
Building global web applications



DEMO

Application Service Environments

For additional/more complex security requirements



Q & A

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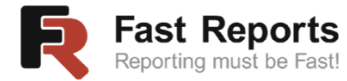
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