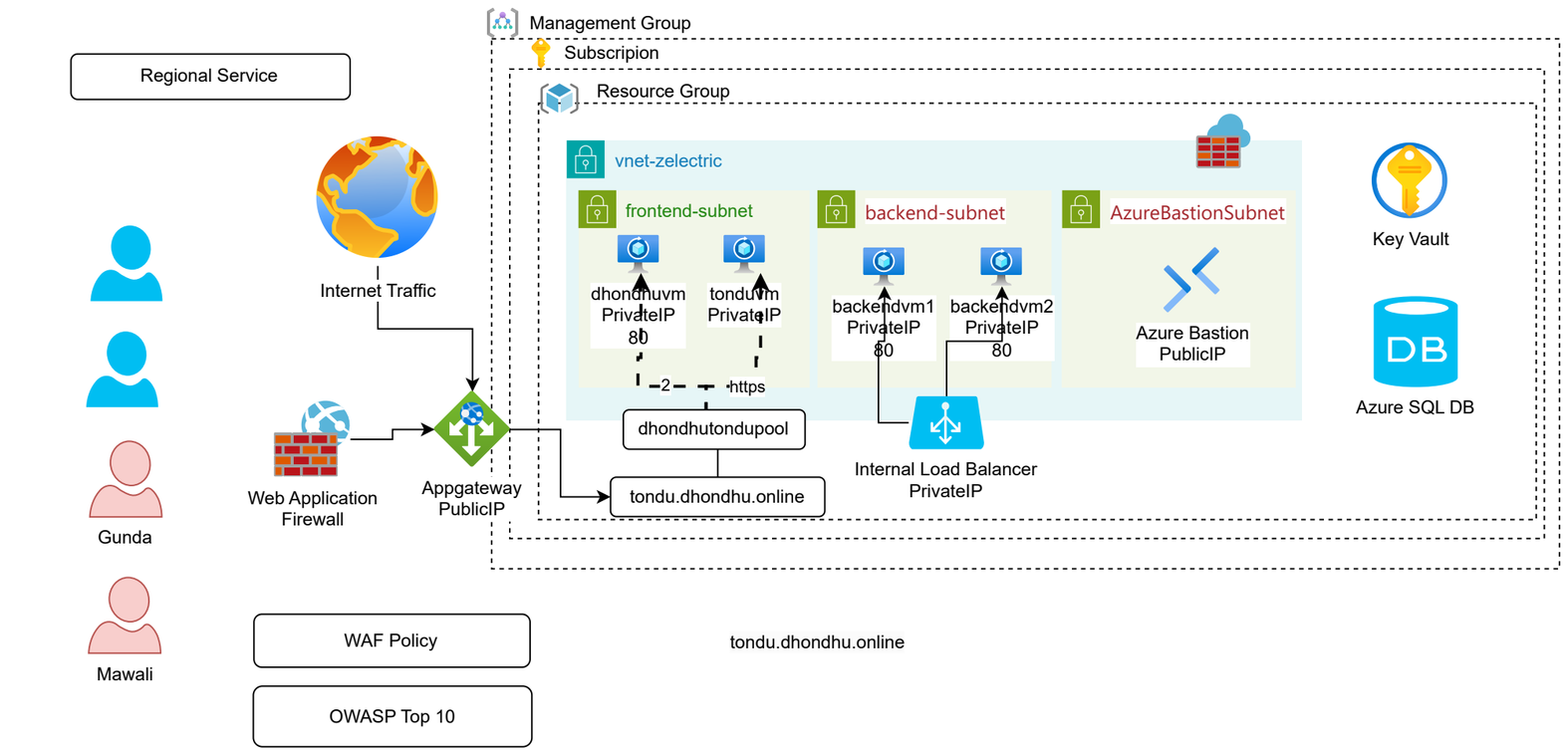
Azure Application Gateway



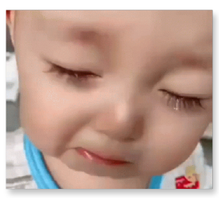
Assignment - Azure Firewall + UDR Rules

NSG - Network Security Group

ASG - Application Security Group

Difference between Loadbalancer, Application Gateway, Frontdoor, Traffic Manager

Cope me likhna aise....



LOADBALANCER AND APPLICATION GATEWAY ARE REGIONAL SERVICE... JIS REGION ME BNAOGE WAHI CHLEGA...

Application Gateway and Load Balancers Global Load Balancing me fail ho jaega

Highly Available and FailOver

Azure Frontdoor

Traffic Manager

Edge Regions

CDN- Content Delivery Network

Latency Based Routing

Azure Frontdoor

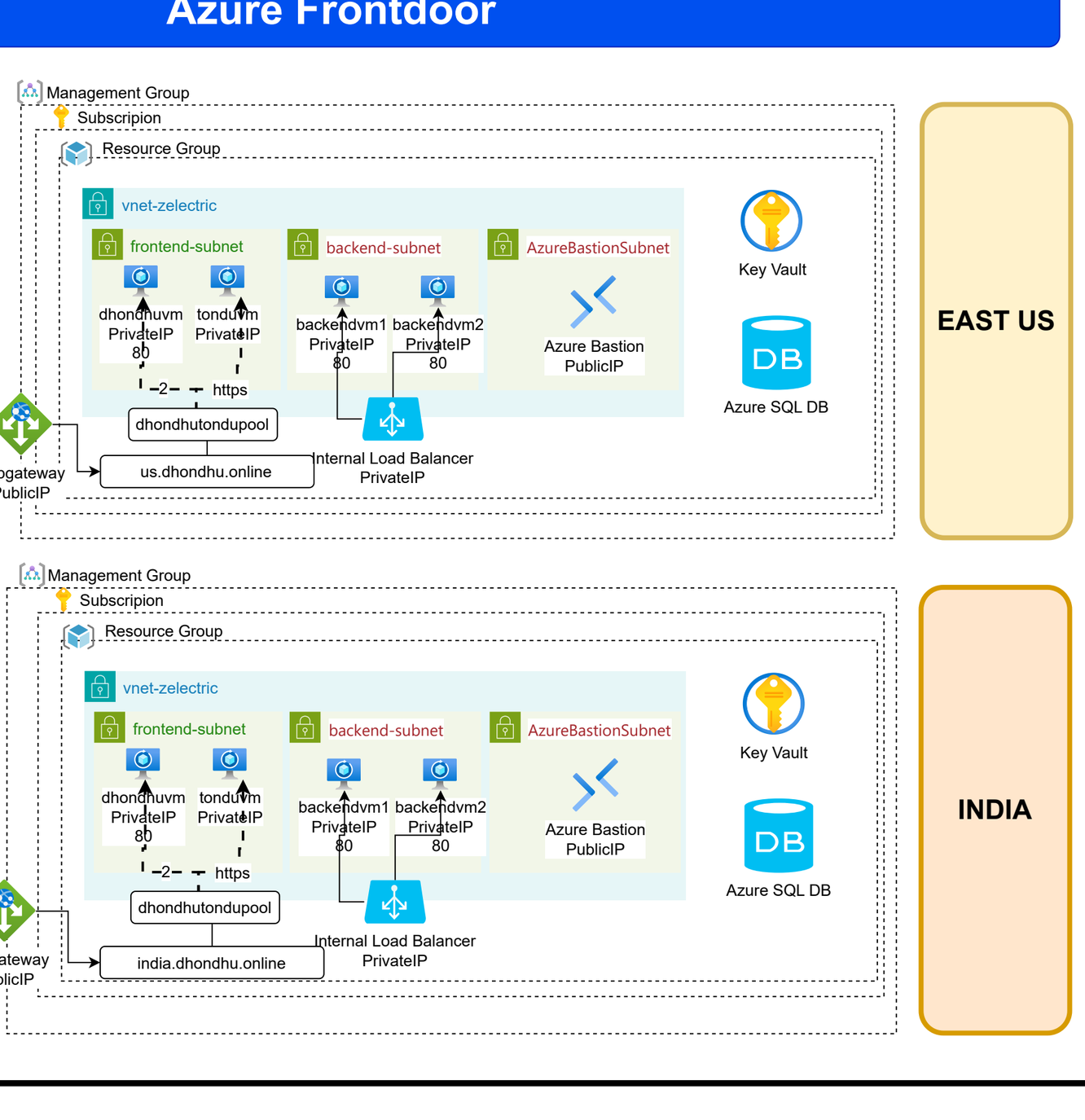
USA West US

India

Dubai

dhondhu.online

Internet



Feature/Service	Azure Load Balancer	Application Gateway	Traffic Manager	Azure Front Door
Type	Layer 4 (TCP/UDP) Load Balancing	Layer 7 (HTTP/HTTPS) Load Balancing	DNS-based Traffic Routing	Global HTTP/HTTPS Load Balancing
Primary Use Case	Distributing traffic based on IP address and port	Distributing traffic based on HTTP/HTTPS requests	Distributing traffic based on DNS queries	Optimizing global web application performance
Protocol Support	TCP, UDP	HTTP, HTTPS	HTTP, HTTPS	HTTP, HTTPS
Health Probes	Yes (TCP/UDP probes)	Yes (HTTP/HTTPS probes)	No health probes (uses endpoint availability)	Yes (HTTP/HTTPS probes)
Layer	Network (Layer 4)	Application (Layer 7)	DNS Layer	Application Layer (Layer 7)
SSL Termination	No	Yes	No	Yes
Web Application Firewall (WAF)	No	Yes	No	Yes
Traffic Routing	Based on IP and port	Based on URL path, hostname, and HTTP headers	Based on DNS name resolution and routing policy	Based on URL path, hostname, and geographic location
Geo-Location Routing	No	No	Yes (based on geographic location)	Yes (with better global reach and performance)
Session Affinity	Yes (using source IP)	Yes (using cookies)	No	Yes (using cookies)
Scaling	Scales automatically based on traffic	Scales automatically based on traffic	Scales based on DNS traffic	Scales automatically based on traffic
Integration with Azure Services	Integrates with VM, VM Scale Sets, and Availability Sets	Integrates with VM, App Service, and VM Scale Sets	Integrates with multiple Azure services through DNS	Integrates with multiple Azure services
Cost Model	Typically lower cost	Higher cost due to advanced features	Pay-per-DNS-query and routing policies	Generally higher cost due to global distribution and advanced features