DIRECTING WEB TRAFFIC USING AZURE APPLICATION GATEWAY

AZURE APP GATEWAY IS A WEB TRAFFIC LOAD BALANCER. IT ENABLES AND USER/ADMIN THE ABILITY TO MANAGE TRAFFIC TO ORGANIZATIONS WEB APPS. IN A TRADITONAL LOAD BALANCER THEY OPERATE AT THE TRANSPORT LAYER (L4) ROUTING TRAFFIC BASED ON SOURCE IP AND PORT TO A DESTINATION IP AND PORT.

APP GATEWAYS MAKE ROUTING DECISIONS BASED ON ADDITIONAL ATTRIBUTES OF AN HTTP REQUEST. FOR EXAMPLE, SETTING UP A POOL(SERVER) FOR IMAGES IF A INCOMING URL IS CONFIGURED TO /IMAGES

NOTE: FOR MORE DETAIL ON AZURE APPLICATION GATEWAY CHECK OUT: <https://docs.microsoft.com/en-us/azure/application-gateway/overview>

NOTE: FRONTEND- IS A LISTENERS CHECKING FOR INCOMING CONNECTION REQUESTS USING PORTS, PROTOCOLS, HOSTS AND IPS. BACKEND- ROUTES THE REQUESTS TO THE DESTINED BACKED SERVER.

STEP-01 CREATING AN APPLICATION GATEWAY

A screenshot of a computer

Description automatically generated

THE IMAGE ABOVE IS WHERE I AM SETTING UP An APPLICATION GATEWAY AND CONFIGURING A VIRTUAL NETWORK (AN EXISITING VNET CAN BE USED) ALLOWING FOR 2 DIFFERENT SUBNETS: ONE FOR THE APPLICATION GATEWAY AND THE OTHER FOR THE BACKEND SERVERS

Graphical user interface, text, application, email

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THIS IS SETTING UP THE VNET TO ALLOW REMOTE CONNECTIONS USING A PUBLIC IP

Graphical user interface, text, application

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HERE I CONDFIGRED THE BACKEND POOL. I ALSO HAD TO CONFIGURED THE FRONTEND AS WELL. BOTH IS DONE AT ONCE JUST ON DIFFERENT TABS.

NOTE: YOU HAVE TO COMPLETE BOTH ENDS BEFORE BEING ALLOWED TO SAVE IT.

Graphical user interface, application

Description automatically generated

HERE I HAD TO SET UP A ROUTING RULE TO CONNECT FRONTEND TO BACKEND

STEP-02 CREATE BACKEND TARGETS (VMS)

Graphical user interface, text, application, email

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FOR THIS LAB CHECK OUT: <https://docs.microsoft.com/en-us/azure/application-gateway/quick-create-portal>