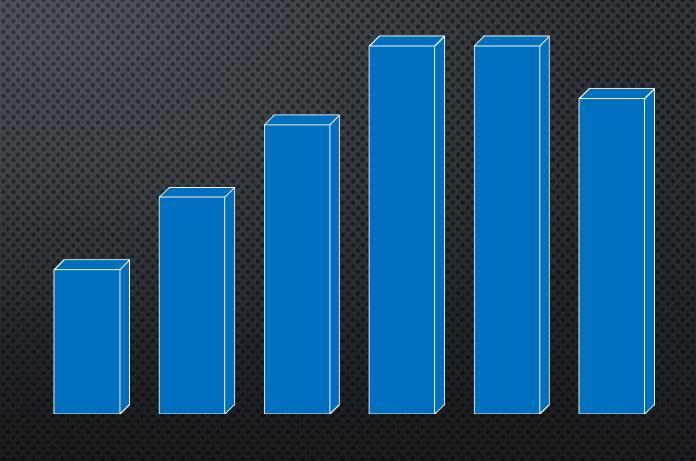
ARCHITECTURE

OF HIGH LOAD APPLICATIONS

ON AZURE CLOUD

WHAT IS HIGH LOAD

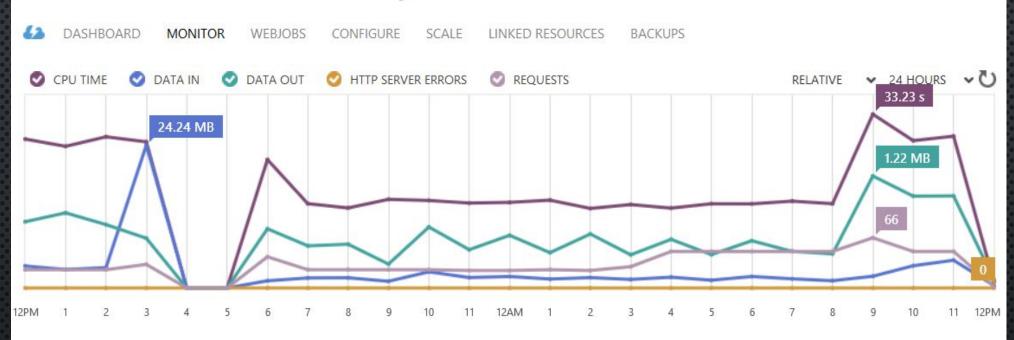
YOU HAVE CREATED AN AWESOME WEBSITE. YOUR APPLICATION IS QUITE POPULAR AND USERS FROM ALL OVER THE WORLD LOVE IT. LIFE IS GREAT! ... **BUT**, THEN YOU HIT A SPEED BUMP: AS YOUR TRAFFIC HAS BEEN GROWING, SO HAS THE LOAD ON YOUR APPLICATION, AND IT'S CAUSING IT TO RUN SLOWER AND SLOWER AND YOU START TO SEE USER ATTRITION...



HOW TO MAKE YOUR APPLICATION READY FOR HIGH LOAD

MONITOR EVERYTHING (AZURE PORTAL)

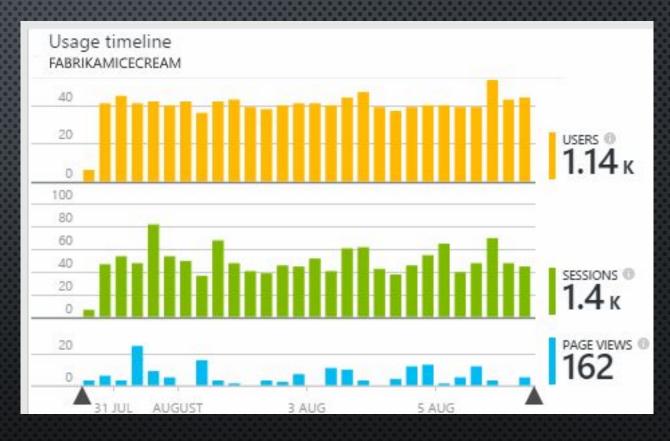
mktsvct101estewatst-secondary



RULES 🔎	ALERT RULES	TOTAL	AVG	MAX	MIN	SOURCE	NAME	
onfigured	Not Configured	454.62 s	19.77 s	33.23 s	0 ms	mktsvct101estewatst	CPU Time	0
onfigured	Not Configured	70.26 MB	3.05 MB	24.24 MB	0 B	mktsvct101estewatst	Data In	0
onfigured	Not Configured	13.07 MB	581.72 KB	1.22 MB	0 B	mktsvct101estewatst	Data Out	0
onfigured	Not Configured	0	0	0	0	mktsvct101estewatst	Http Server Errors	0
onfigured	Not Configured	765	33.26	66	0	mktsvct101estewatst	Requests	0

MONITOR EVERYTHING (APP INSIGHTS)





SCALE YOUR APPLICATION TO PROVIDE SERVER RESOURCES FOR EACH OF YOUR USER

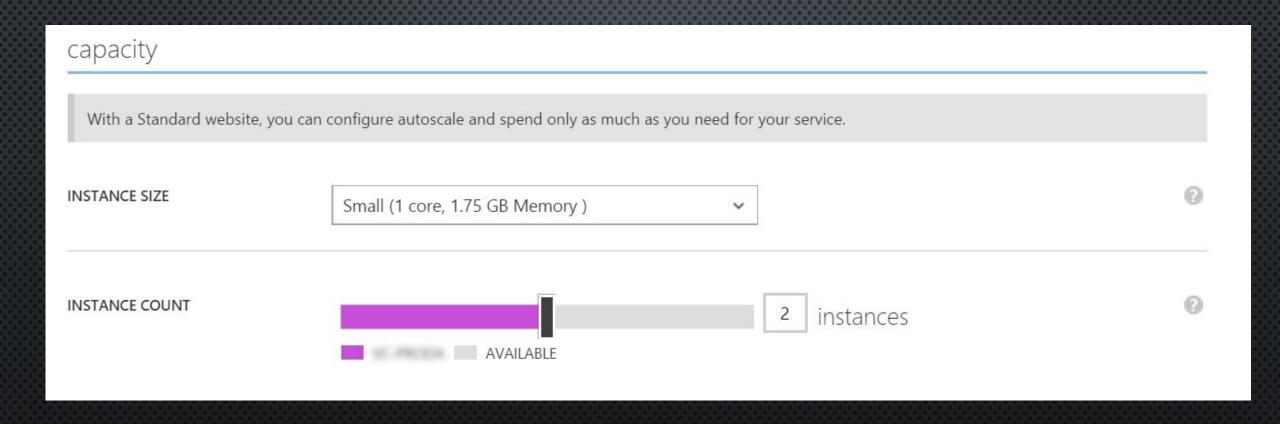




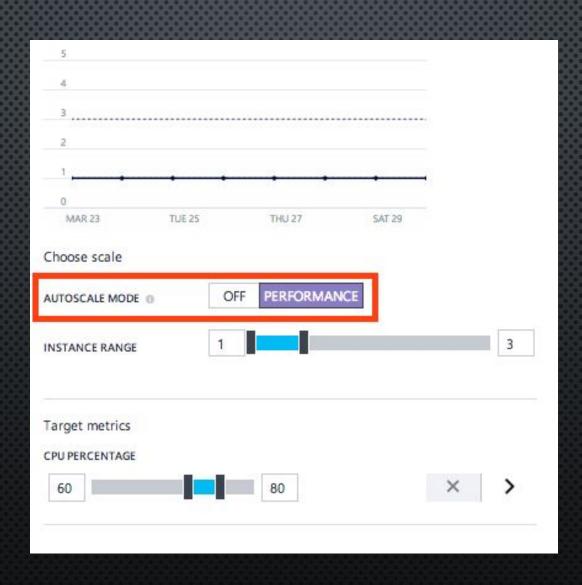




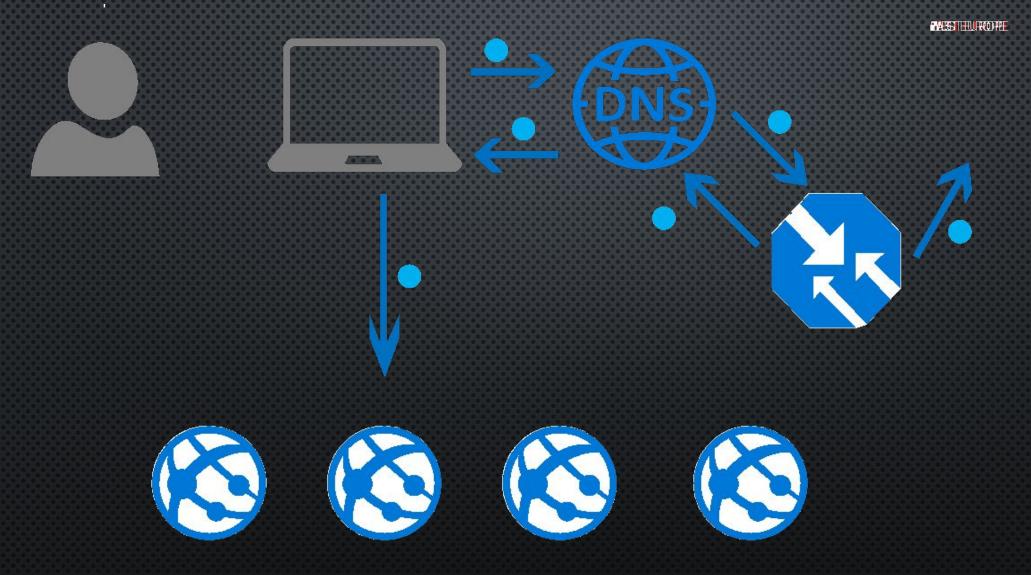
MANUAL SCALING ON AZURE PORTAL



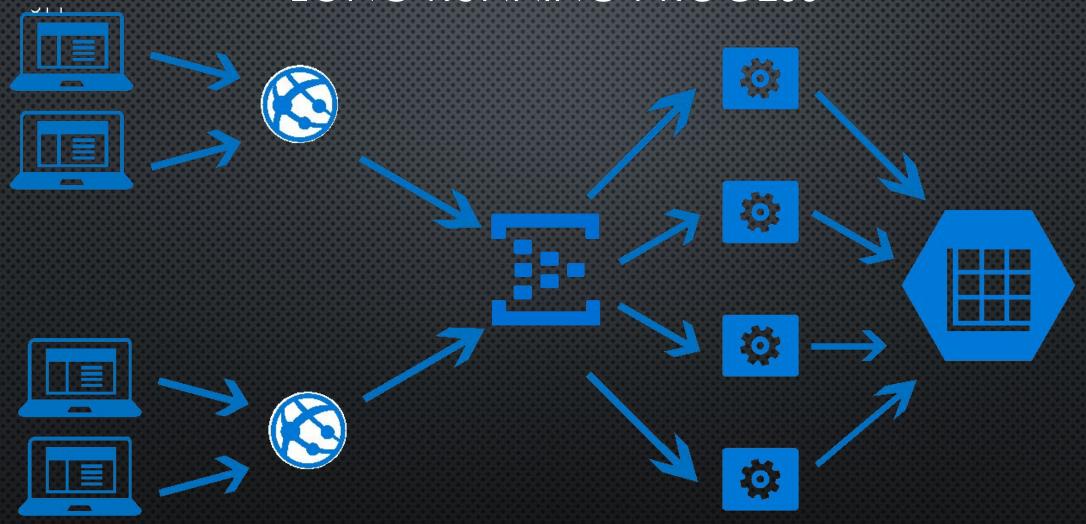
AUTO SCALING ON AZURE PORTAL



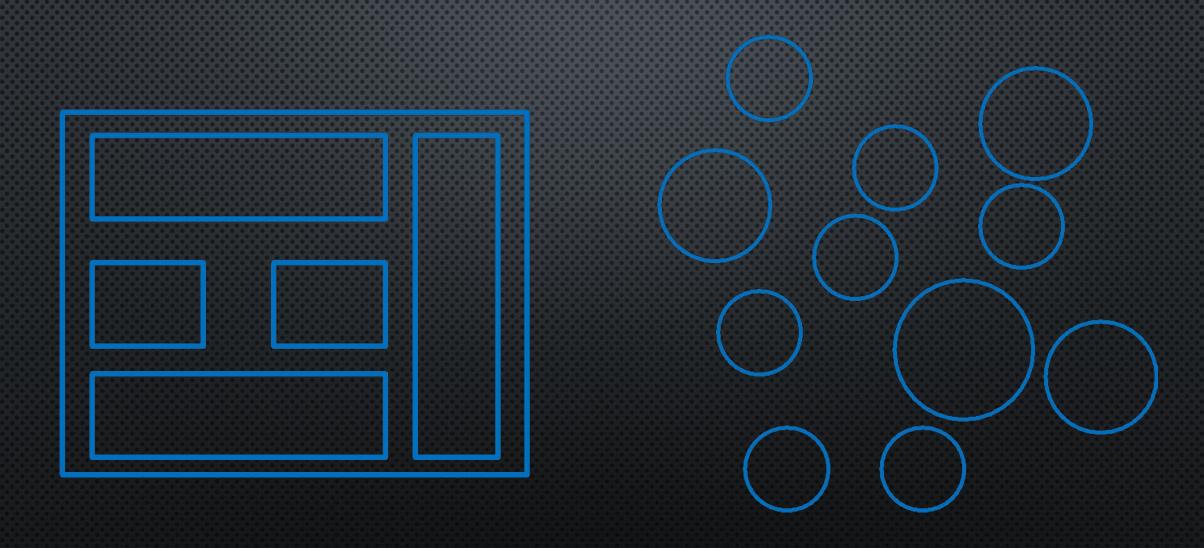
USE TRAFFIC MANAGER TO AUTOMATICALLY DISTRIBUTE USERS ACROSS APPLICATION INSTANCES AND HANDLE FAULT DOMAINS



USE ASYNCHRONOUS COMPUTING FOR ALL LONG RUNNING PROCESS



DISTRIBUTE ASYNCHRONOUS COMPUTING USING MICRO SERVICES ARCHITECTURE



SCALE YOUR SQL DATABASES USING HORIZONTAL AND VERTICAL SCALING



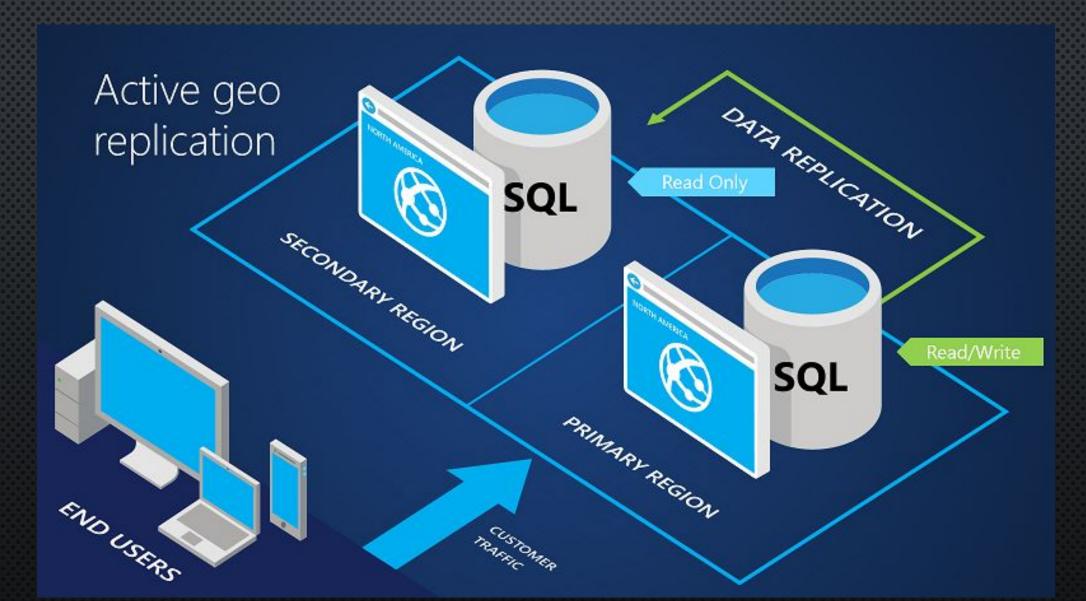
Vertical Scaling:

Increase or decrease computing power or databases as need-ed—either by changing Azure DB performance level or edition, or by using elastic database pools to automatically adjust with workload demand

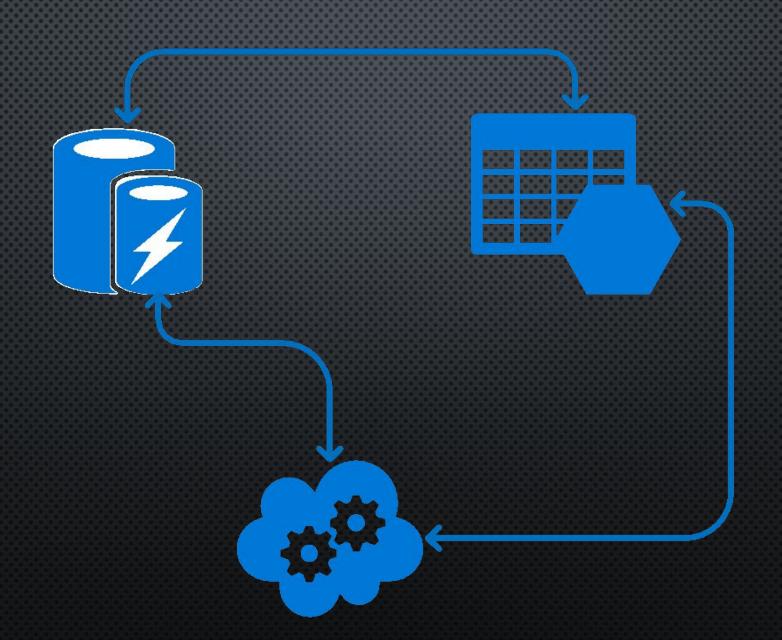
OR USE AZURE TABLE STORAGE

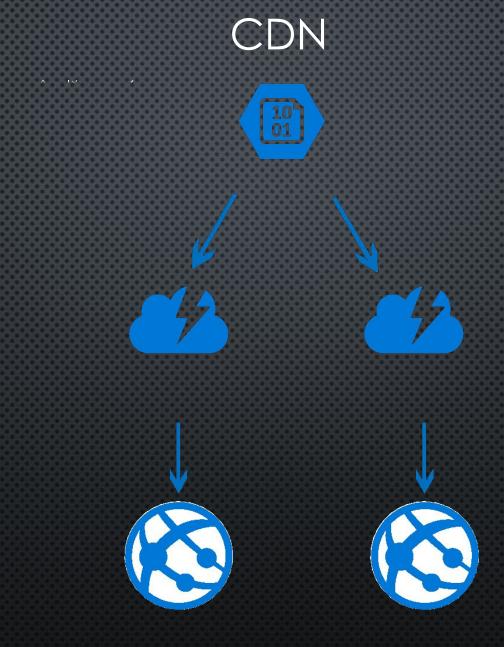
ionKey	RowKey	Memb€
on	1234	Alex
on	1235	Dmitry
on	1236	Evgeny
psoft	421523	Bob
bsoft	513215	lane

REPLICATE YOUR DATA BETWEEN GEO REGIONS TO PROVIDE GREAT AVAILABILITY AND RESILIENCE



CACHE ALL YOU CAN

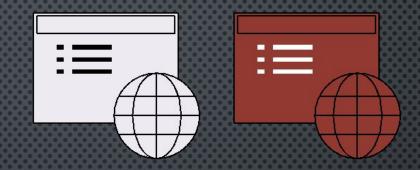




EXAMPLE

LANDING PAGE A/B TESTING

· APPLICATION FUNCTIONALITY





APPLICATION FUNCTIONALITY

