Architecture Design for Chat Backend

Block Diagram Based on Single Region

A

C

B

A

C

B

A

C

B

Ingest

Query

Database

VIP

ADDRESS

VIP

ADDRESS

VIP

ADDRESS

URL

ADDRESS

USER

USER

USER

What is Ingest?

Which takes traffic of PUT/POST of users, PUT and POST of messages

What is Query?

Which takes traffic of GET of users and messages

What is Database?

Which is used to store data into MySQL, Cassandra like….

Why?

* Cluster of three nodes on ingest, query and database were consider to support traffic and load, when any other one node go faulty, other two will handle the load without any delay
* VIP address were selected so load balancer will take care of transfer the load for both ingest and query

How Scaling can be supported

* Can be done by adding more nodes in a cluster or

A

Z

* Cluster of three can be added more

A

C

B

A

C

B