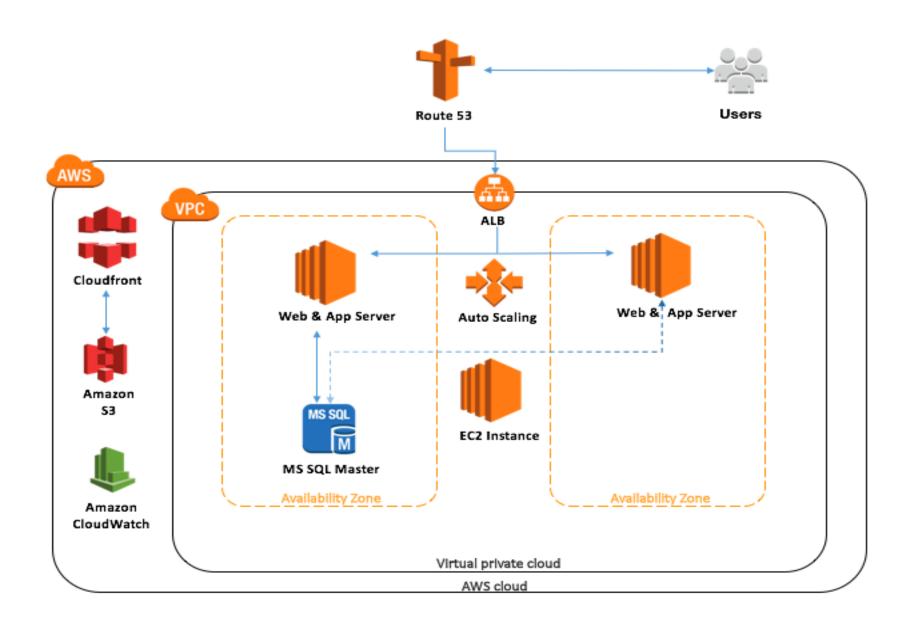# Solution Architecture

CompareRaja

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Solution Architecture

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- Application Load Balancer(ALB) is used for routing the traffic across two EC2 instances in different availability zones. ALB automatically distributes incoming request traffic across multiple Amazon EC2 instances and results in achieving higher fault tolerance.

- AWS Auto-scaling will be used for the two instances in different availability zones where you scale your Amazon EC2 instances up or down automatically as per the instructions set by the user. Using this, the number of Amazon EC2 instances you're using increases automatically as the demand rises to maintain the performance, and decreases automatically as the demand decreases to minimize the cost.

- MS SQL DB instance will be used to decouple the application server and the database server.

- MS SQL DB instance will be replicated on the slave DB instance.

- CloudWatch will be used to monitor instance related metrics.

- Amazon S3 will be used to store and retrieve any amount of data, at any time. Amazon S3 is used as an origin for CloudFront distribution, you can place any number of objects that you want CloudFront to deliver in an Amazon S3 bucket. All the file & image uploads will be offloaded to S3 so as to not affect application scaling.

- EC2 Instance will be used for running scheduled processes.