

How I reduced my estimate to \$5,986

1. Web server :

- No of the reserved instances reduced from 12 to 8.
 - Reason: Reducing webserver instances will not have a significant impact on capacity considering we have autoscaling enabled.

2. Application server :

- No of the reserved instances reduced from 14 to 12.
 - Reason: Reducing application server instances will not have a significant impact on capacity considering we have autoscaling enabled.

3. Database

- No Backup Storage:
 - Reason: we are using Aurora DB (Mysql compatible) and There is no additional charge for backup storage of up to 100% of your total Aurora database storage for each Aurora DB cluster. There is also no additional charge for backup storage if your backup retention period is 1 day and you don't have any snapshots beyond the retention period.
- The pricing model changed from on-demand to 1 year reserved with no upfront payment.

4. Amazon Route 53:

- Health checks: No health checks are reduced from 1 health check per hour to 1 health check per day.
 - Reason: Reducing health checks may impact monitoring but we can counterbalance this by introducing a proper alert mechanism by cloudwatch

5. Amazon NatGateways :

- Reduced data processing capacity of Natgateways from 1 TB to 500 GB
 - Reason: By using VPC gateway endpoints we can bypass the data flow between S3 and your private subnets. which can significantly reduce the data bandwidth