

My Estimate (1)

Region	Service	Upfront	Monthly	Currency	Configuration summary
US East (N. Virginia)	Amazon RDS for MySQL	0	4946.848	USD	Quantity (1), Storage for each RDS instance (General Purpose SSD (gp2)), Storage amount (10 TB), Instance type (db.r5.4xlarge), Additional capacity reserved (0.0 TB)
US West (Oregon)	Amazon RDS for MySQL	0	3974.048	USD	Quantity (1), Storage for each RDS instance (General Purpose SSD (gp2)), Storage amount (10 TB), Instance type (db.r5.4xlarge)
US East (N. Virginia)	Amazon EC2	0	657.7	USD	Operating system (Linux), Quantity (16), Storage for each EC2 instance (General Purpose SSD (gp2)), Storage amount (30 GB), Instance type (t3.xlarge)
US East (N. Virginia)	Amazon EC2	0	2888.16	USD	Operating system (Linux), Quantity (16), Storage for each EC2 instance (General Purpose SSD (gp2)), Storage amount (1 TB), Instance type (m5.xlarge)
US East (N. Virginia)	Elastic Load Balancing	0	3569.7	USD	Number of Application Load Balancers (4)
US East (N. Virginia)	Amazon Virtual Private Cloud (Amazon VPC)	0	149.4	USD	Number of NAT Gateways (4)
US East (N. Virginia)	Amazon Route 53	0	183.8	USD	Hosted Zones (1), Number of Elastic Network Interfaces (2)
US East (N. Virginia)	Amazon Elastic IP	0	29.2	USD	Number of EC2 instances (8), Number of EIPs per instance (2)
US East (N. Virginia)	S3 Intelligent - Tiering	0	181.76	USD	S3 INT storage (10 TB per month)
US East (N. Virginia)	Data Transfer	0	20.48	USD	Data Transfer, Data transfer cost (20.48)
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To increase fault tolerance in case of regional outage, and perf the following changes were done with increased budget.

- 1) Added an RDS Multi-AZ MySQL DB in another region (US West Oregon)
- 2) Added EC2 instances for Web and App tier
- 3) Added ELBs to bring up the standby infrastructure
- 4) S3 Cross region replication is setup.