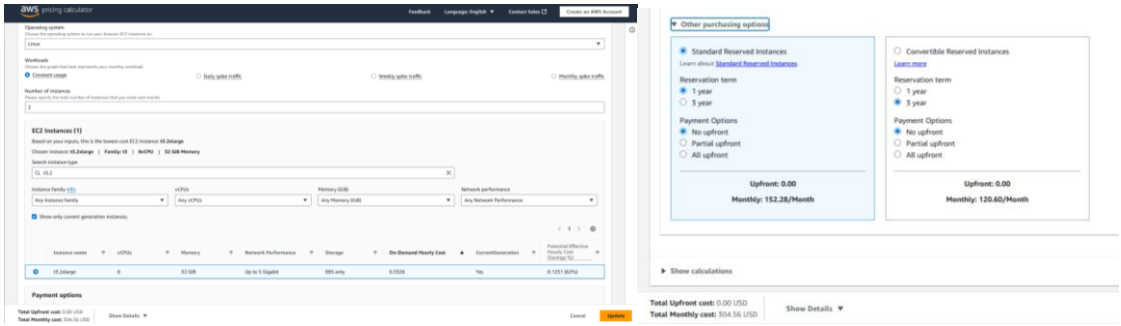
Tugas 1 Komputasi Awan

Developer want to create a web application with an Amazon RDS-hosted database in the US East (Ohio) Region. The requirement specification is the follow:

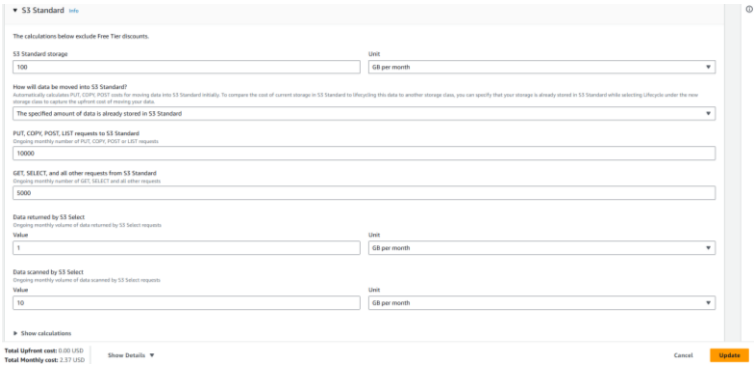
Service	Data Required
Amazon Elastic Compute Cloud (Amazon EC2)	• Two Linux t3.2xlarge instances • 1-Year Standard Reserved billing with no upfront costs
Amazon Simple Storage Service (Amazon S3)	• 100 GB per month S3 Standard storage • 10,000 PUT, COPY, POST, or LIST requests • 5,000 GET, SELECT, and other requests • 1 GB data returned by S3 Select • 10 GB data scanned by S3 Select
Elastic Load Balancing	• Three Application Load Balancers • Average of 50 new connections/second per Application Load Balancer • Average connection time is 60 seconds • Average of 100 requests per second for each Application Load Balancer • Processed bytes per Application Load Balancer for EC2 instances and IP address as targets is 100 GB/month • 10 average number of rule evaluations per request
Amazon Route 53	• 5 hosted zones, not using traffic flow • 10 million standard queries per month • 10,000 basic Domain Name System (DNS) health checks within AWS • 20,000 basic DNS health checks outside of AWS • 10 elastic network interfaces • 2 million recursive average DNS queries per month
Amazon Relational Database Service (Amazon RDS)	• 2 RDS db.r5.8xlage standard instances that run MySQL • 100 GB of General Purpose storage • 30 GB additional backup storage

Amazon EC2:



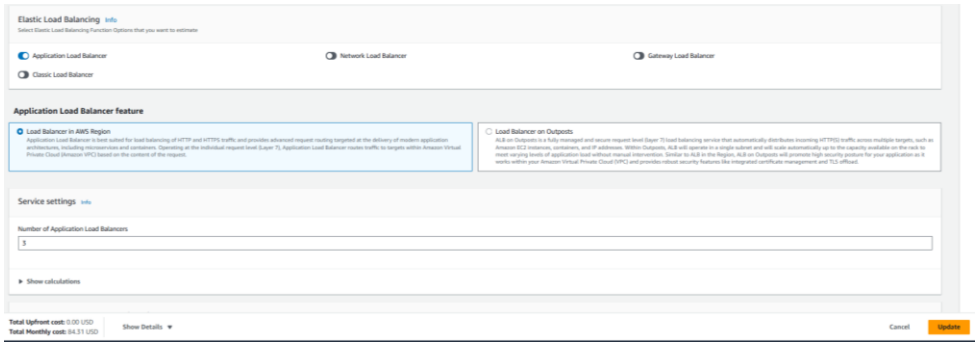
Berdasarkan spesifikasi yang diberikan yaitu 2 Linux t3.2xlarge instances dengan 1 year standard reserved bill tanpa upfront costs, biaya untuk Amazon EC2 adalah 304.56 USD/bulan.

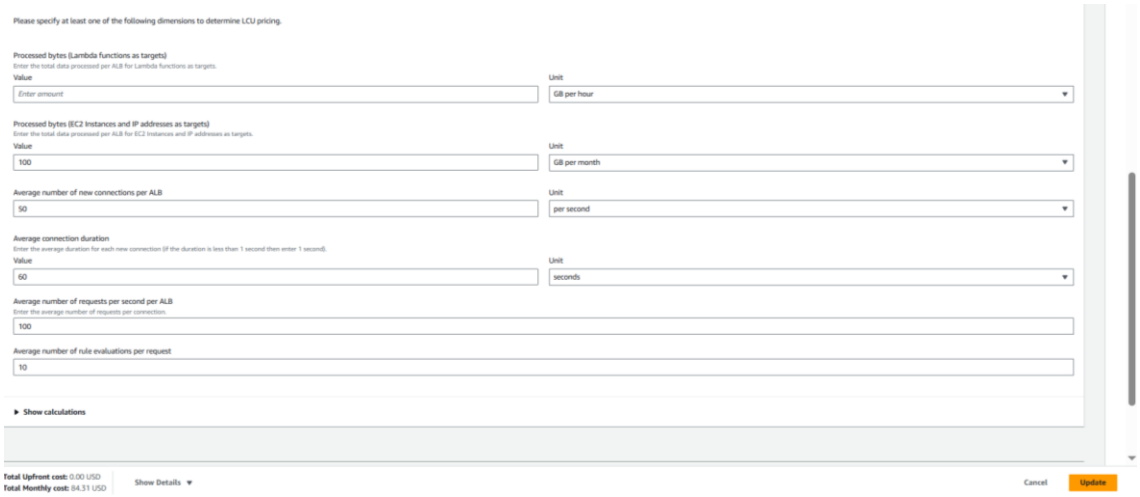
Amazon S3:



Berdasarkan spesifikasi yang diberikan yaitu 100 GB/month S3 standard storage; 10000 PUT, COPY, LIST requests; 5000 GET, SELECT, and other requests; 1 GB data returned by S3 select; dan 10 GB data returned by S3 select, biaya untuk Amazon S3 adalah 2.37 USD/bulan.

Elastic Load Balancing:



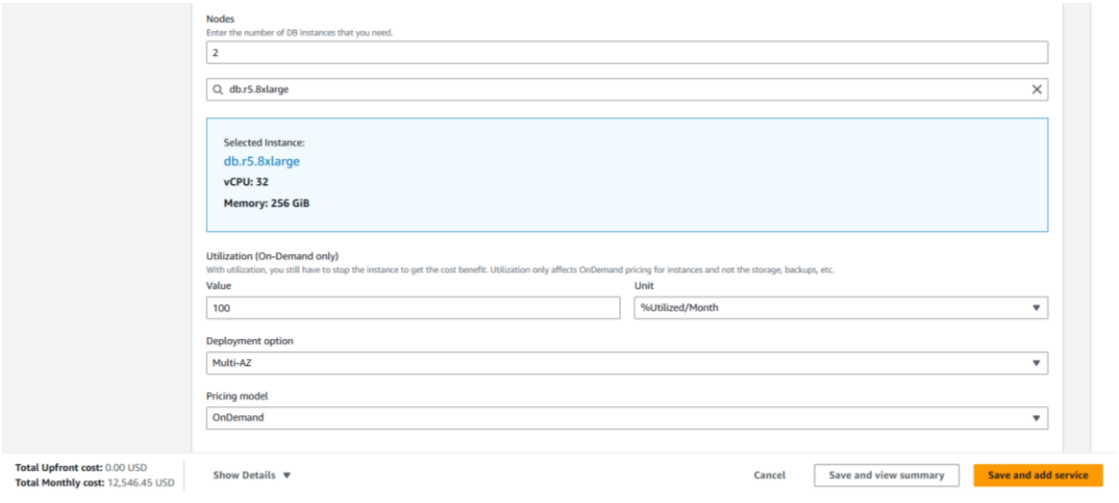


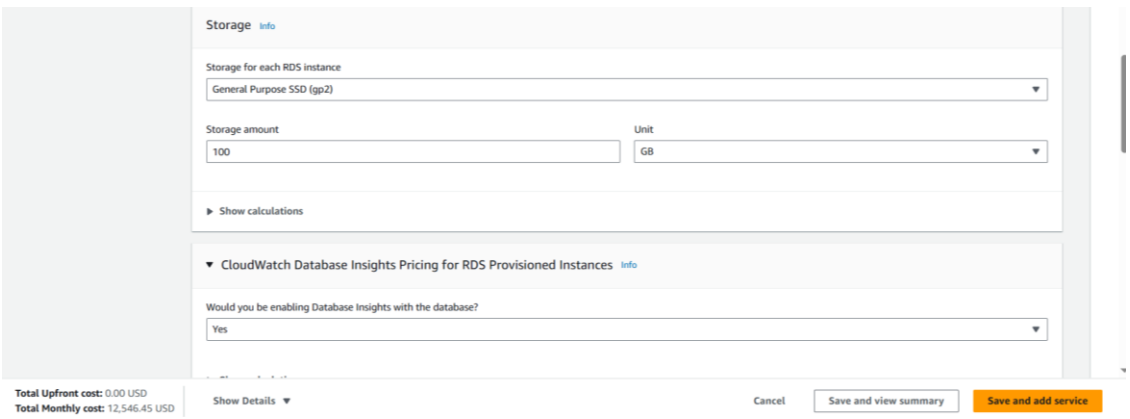
Berdasarkan spesifikasi yang diberikan yaitu 3 Application Load Balancers, average of 50 new connections/second per Application Load Balancers, average of 60 seconds connection time, average of 100 requests per second for each Application Load Balancer, 100 GB/month processed bytes per Application Load Balancer for EC2 instances and IP Address as targets, dan 10 average number of rule evaluations per request, biaya untuk Elastic Load Balancing adalah 84.31 USD/bulan.

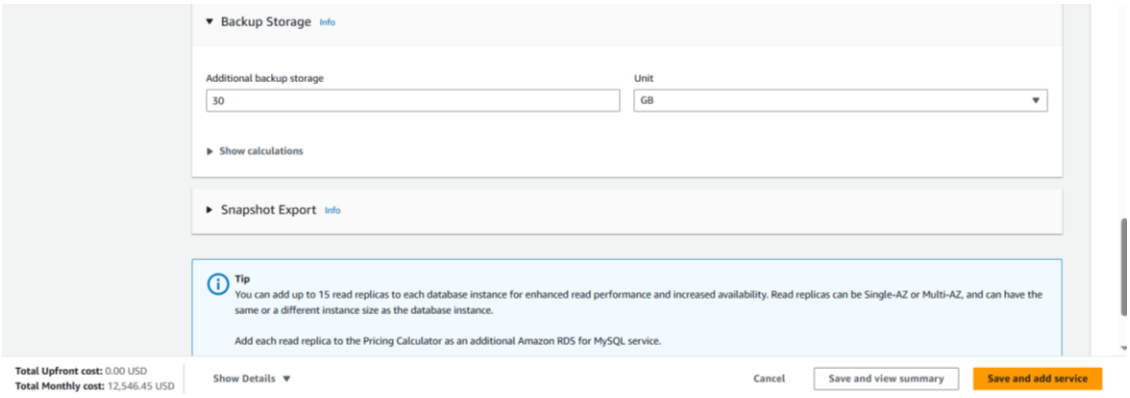
Amazon Route 53:

Berdasarkan spesifikasi yang diberikan yaitu 5 hosted zones without traffic flow, 10 million standard queries per month, 10000 basic DNS health checks within AWS, 20000 basic DNS health checks outside of AWS, 10 elastic network interfaces, dan 2 million recursive average DNS queries per month, biaya yang dibutuhkan untuk Awazon Route 53 adalah 20894.80 USD/month.

Amazon RDS for MySQL:







Berdasarkan spesifikasi yang diberikan yaitu 2 RDS db.r5.8xlarge standard instances that run MySQL, 100 GB of General Purpose storage, dan 30 GB additional backup storage, biaya yang dibutuhkan adalah 12546.45 USD/month

Total cost:

Setelah dijumlahkan, biaya yang dibutuhkan oleh developer adalah 33842.49 USD/bulan atau 405989.88 USD/tahun.

aws

Contact your AWS representative: Contact Sales

Export Date: 09/03/2025 **Language:** English

Estimate url

Estimate summary

Upfront cost	Monthly cost	Total 12 months cost
0.00 USD	33,832.49 USD	405,989.88 USD Includes upfront cost

Detailed Estimate

Name	Group	Region	Upfront cost	Monthly cost
Amazon EC2	-	US East (Ohio)	0.00 USD	304.56 USD

Status -

Description: -

Config summary Tenancy (Shared Instances), Operating system (Linux), Workload (Consistent, Number of instances: 2), Advance EC2 instance (t3.2xlarge), Pricing strategy (1yr No Upfront), Enable monitoring (disabled), DT Inbound: Not selected (0 TB per month), DT Outbound: Not selected (0 TB per month), DT Intra-Region: (0 TB per month)

Name	Group	Region	Upfront cost	Monthly cost
Amazon Simple Storage Service (S3)	-	US East (Ohio)	0.00 USD	2.37 USD

Status -

Description: -

Config summary S3 Standard storage (100 GB per month), PUT, COPY, POST, LIST requests to S3 Standard (10000), GET, SELECT, and all other requests from S3 Standard (5000), Data returned by S3 Select (1 GB per month), Data scanned by S3 Select (10 GB per month)

Name	Group	Region	Upfront cost	Monthly cost
Elastic Load Balancing	-	US East (Ohio)	0.00 USD	84.31 USD

Status -

Description: -

Config summary Number of Application Load Balancers (3)

Name	Group	Region	Upfront cost	Monthly cost
Amazon Route 53	-	US East (Ohio)	0.00 USD	20,894.80 USD

Status -

Description: -

Config summary Hosted Zones (5), Basic Checks Within AWS (10000), Number of Elastic Network Interfaces (10)

Name	Group	Region	Upfront cost	Monthly cost
Amazon RDS for MySQL	-	US East (Ohio)	0.00 USD	12,546.45 USD

Status -

Description: -

Config summary Storage amount (100 GB), Storage for each RDS instance (General Purpose SSD (gp2)), Nodes (2), Instance type (db.r5.8xlarge), Utilization (On-Demand only) (100 %Utilized/Month), Deployment option (Multi-AZ), Pricing strategy (OnDemand), Additional backup storage (30 GB)

Acknowledgement
AWS Pricing Calculator provides only an estimate of your AWS fees and doesn't include any taxes that might apply. Your actual fees depend on a variety of factors, including your actual usage of AWS services. Learn more