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**ICS 432 - 01 — Distributed and Cloud Computing Fall 2021**

**Week 15 Module : Cloud Economics and Billing**

**Scenario 1: Web Application with an Amazon RDS hosted database in the US West (Oregon) Region**

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| Scenario 1’s Estimate | | | | |
| Service Type | Components | Region | Component Price | Service Price |
| Amazon EC2 Service (US West (Oregon)) |  |  |  | $304.56 |
| Compute: | US West (Oregon) | $304.56 |
| Reserved Instances (one-time fee): | US West (Oregon) | $0 |
| Amazon S3 Service (US West (Oregon)) |  |  |  | $6.74 |
| S3 Standard Storage: | US West (Oregon) | $2.3 |
| S3 Standard Put Requests: | US West (Oregon) | $0.05 |
| S3 Standard Other Requests: | US West (Oregon) | $0.01 |
| S3 Standard Select Data Returned: | US West (Oregon) | $0.01 |
| S3 Standard Select Data Scanned: | US West (Oregon) | $0.02 |
| Cross Region Replication - Storage: | US West (Oregon) | $2.3 |
| Cross Region Replication - Requests: | US West (Oregon) | $0.05 |
| Cross Region Replication - Inter Region Data Transfer: | US West (Oregon) | $2 |
| Amazon Route 53 Service |  |  |  | $20897.3 |
| Hosted Zones: | Global | $2.5 |
| Standard Queries: | Global | $4 |
| Basic Checks Within AWS: | Global | $4975 |
| Basic Checks Outside of AWS: | Global | $15000 |
| Resolver: | Global | $915.8 |
| Amazon RDS Service (US West (Oregon)) |  |  |  | $5556.92 |
| DB instances: | US West (Oregon) | $5533.92 |
| Storage: | US West (Oregon) | $23 |
| Amazon Elastic Load Balancing (US West (Oregon)) |  |  |  | $84.55 |
| Application LBs: | US West (Oregon) | $84.55 |
| AWS Data Transfer In |  |  |  | $0 |
| US West (Oregon) Region: | Global | $0 |
| AWS Data Transfer Out |  |  |  | $2.61 |
| US West (Oregon) Region: | Global | $2.61 |
| AWS Support (Business) |  |  |  | $2177.23 |
| Support for all AWS services: |  | $2177.23 |
|  |  | Free Tier Discount: |  | $-35.22 |
|  |  | Total Monthly Payment: |  | $28994.69 |

**Scenario 2: Application using Amazon Simple Queue Service (Amazon SQS) and Amazon Athena in the Europe (Ireland) Region**

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| Scenario 2’s Estimate | | | | |
| Service Type | Components | Region | Component Price | Service Price |
| Amazon DynamoDB Service (Europe (Ireland)) |  |  |  | $346.06 |
| On-demand Capacity: | Europe (Ireland) | $24.04 |
| Provisioned Capacity: | Europe (Ireland) | $0 |
| Indexed Data Storage: | Europe (Ireland) | $311.02 |
| DynamoDB Streams: | Europe (Ireland) | $0 |
| On-demand backup: | Europe (Ireland) | $11 |
| Continuous backup (PITR): | Europe (Ireland) | $0 |
| Restoring a table: | Europe (Ireland) | $0 |
| Change Data Capture: | Europe (Ireland) | $0 |
| Data export to Amazon S3: | Europe (Ireland) | $0 |
| Amazon SQS Service (Europe (Ireland)) |  |  |  | $0 |
| Requests - Standard Queue: | Europe (Ireland) | $0 |
| Requests - FIFO Queue: | Europe (Ireland) | $0 |
| Amazon VPC Service (Europe (Ireland)) |  |  |  | $1852.37 |
| VPN Connection: | Europe (Ireland) | $1830 |
| NAT Gateway | Europe (Ireland) | $22.37 |
| Amazon Elastic File System Service (Europe (Ireland)) |  |  |  | $67.25 |
| Storage: | Europe (Ireland) | $34.25 |
| Provisioned Throughput: | Europe (Ireland) | $33 |
| AWS Data Transfer In |  |  |  | $0 |
| Europe (Ireland) Region: | Global | $0 |
| AWS Data Transfer Out |  |  |  | $4309.61 |
| Europe (Ireland) Region: | Global | $4309.61 |
| AWS Support (Enterprise) |  |  |  | $15000 |
| AWS Support Plan Minimum: |  | $15000 |
|  |  | Free Tier Discount: |  | $-2.91 |
|  |  | Total Monthly Payment: |  | $21572.38 |