Infrastructure Estimation

Prod Environment (1 region, 2 AZ):

- · MyLog BE:
 - 2 AZs x 1 m6g.2xlarge = 2 x m6g.2xlarge = \$0.308/hour * 2
 - Monthly cost: \$0.308 * 2 * 24 * 30 = ~\$442.08
- · Lambda for Log Processing:
 - Lambda costs vary based on the number of executions, memory usage, and execution time. Assuming a generous estimate of 2 billions executions per month with an average memory usage of 128 MB and execution time of 100 ms:
 - Monthly cost: ~\$600
- · API Gateway:
 - With 15k logs per second, this totals to approximately 1.296 billion requests per month.
 - API Gateway cost: 1.296 billion requests * \$3.50/million requests = ~\$4,536
- Amazon Kinesis Data Streams (KDS):
 - 15,000 logs per second (150 bytes each).
 - Monthly data volume: ~5.92 TB/month.
 - Monthly cost: 5.92 TB * \$0.015/GB = ~\$88.80
- Amazon Kinesis Data Firehose (KDF):
 - KDF delivers data to Redshift.
 - Assuming 5.92 TB/month of data delivery to Redshift.
 - Monthly cost: ~\$177.60
- · Amazon Redshift:
 - 2 AZs x 2 x ra3.xlplus = 4 x ra3.xlplus = \$1.086/hour * 4
 - Monthly cost: \$1.086 * 4 * 24 * 30 = ~\$3,127.68
- Amazon QuickSight:
 - Standard pricing for QuickSight includes 1 author and 5 readers. Additional readers are priced per user.
 - Monthly cost: Assume ~\$24/month for standard users.

Total Monthly Cost (Prod):

- MyLog BE: ~\$442.08
- Lambda: ~\$600
- API Gateway: ~\$4,536
- Kinesis Data Streams (KDS): ~\$88.80
- Kinesis Data Firehose (KDF): ~\$177.60

• Amazon Redshift: ~\$3,127.68

• QuickSight: ~\$24

Total Monthly Cost: ~\$9000