# Provisioned Throughput Exceeded Exception

- ProvisionedThroughputExceededException

- Your request rate is too high for the read / write capacity provisioned on your DynamoDB table

- SDK will automatically retries the requests until successful

- If you are not using the SDK you can:
  - Reduce request frequency
  - Use Exponential Backoff

# What is Exponential Backoff?

- Many components in a network can generate errors due to being overloaded

- In addition to simple retries all AWS SDKs use Exponential Backoff

- Progressively longer waits  between consecutive retries e.g. 50 ms, 100 ms, 200 ms....for improved flow control

- If after 1 minute this doesn't work,  your request size may be exceeding the throughput for your read/write capacity

# Provisioned Throughput & Exponential Backoff Exam Tips

**A CLOUD GURU**

- If you see a ProvisionedThroughputExceeded Error, this means the number of requests is too high

- Exponential Backoff improves flow by retrying requests using progressively longer waits

- This is not just true for DynamoDB, Exponential Backoff is a feature of **every** AWS SDK and applies to many services within AWS, e.g. S3 buckets, CloudFormation, SES