In many cases, the same specific cloud services are responsible for unexpected cost spikes. To help know what to look for, here is a quick list of common cloud services across AWS, Azure, and GCP that contribute to unpredictable cloud service costs.

### AWS Cloud Service Costs
- **AWS S3 GLACIER**
  - Be careful—if data is uploaded to S3 Glacier archive and deleted within 90 days of its creation, you’re charged a prorated early deletion fee.
- **AWS CLOUDWATCH**
  - As your team begins to scale CloudWatch, you may hit limits for custom metrics, alarms, and dashboards, at which point costs will rise rapidly and unexpectedly.
- **AWS NAT GATEWAY**
  - When initially deploying NAT Gateway, your cloud costs can easily skyrocket, so it’s important to address your configuration and deployment.
- **AWS SAGEMAKER**
  - As more engineers within your business leverage AWS SageMaker, you can exceed the free tier quickly, causing cloud costs to rise.
- **AWS GLUE**
  - If you can reduce the number of Data Processing Units (DPUs) to run your ETL jobs, then you can significantly reduce AWS Glue costs.
- **AWS S3 GLACIER**
  - Be careful—if data is uploaded to S3 Glacier archive and deleted within 90 days of its creation, you’re charged a prorated early deletion fee.

### Azure Cloud Service Costs
- **AZURE DATA EXPLORER (KUSTO)**
  - Depending on your region, the amount of data you’re running, the frequency of your queries, and the type of retention policies you choose, costs can increase fast.
- **AZURE SENTINEL**
  - Unpredictable costs come into play when you go above your reservation capacity and the additional data is charged per Pay-As-You-Go rates.
- **AZURE MONITOR LOG ANALYTICS**
  - There are several factors to consider when enabling Azure Log Analytics that can increase your total cloud costs, including the region your data is located and your desired data retention period.

### Google Cloud Service Costs
- **GOOGLE FIREBASE**
  - With all its power and functionality, there are countless stories of runaway Google Firebase costs.
- **GOOGLE BIGQUERY**
  - As the amount of usage and storage data increases, costs can run rampant. Also, depending on how you’re searching for data, costs can vary.

To stay ahead of unpredictable cloud costs regardless of the source, it’s important to have visibility into all of your cloud services and resources—because you can’t control what you can’t see.

CloudHealth can provide holistic visibility into your multicloud environment so you can manage and optimize your cloud costs. Click here to connect with a cloud cost optimization expert and see the platform in action.