



# Common Culprits for Unexpected Cloud Service Cost Spikes

## What to look for to keep your cloud costs in check

In many cases, the same cloud services are responsible for unexpected cost spikes. To help know what to look for, here's a quick list of common cloud services across Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform (GCP) that contribute to unpredictable cloud service costs.

### AWS cloud service costs



#### Amazon S3 Glacier

Be careful: If data is uploaded to Amazon Simple Storage Service (S3) Glacier archive and deleted within 90 days of its creation, you're charged a prorated early deletion fee.



#### Amazon CloudWatch

As your team begins to scale Amazon CloudWatch, you may hit limits for custom metrics, alarms and dashboards, at which point costs will rise rapidly and unexpectedly.



#### Amazon SageMaker

As more engineers within your business leverage Amazon SageMaker, you can exceed the free tier quickly, causing cloud costs to rise.



#### NAT gateway

When initially deploying a NAT gateway, your cloud costs can easily skyrocket, so it's important to address your configuration and deployment.



#### AWS Glue

If you can reduce the number of data processing units (DPUs) to run your extract, transform and load (ETL) job, then you can significantly reduce AWS Glue costs.

### 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 types of retention policies you choose, costs can increase fast.



#### Azure Monitor Log Analytics

There are several factors to consider when enabling Log Analytics that can increase your total cloud costs, including the region your data is located and your desired data retention period.



#### Microsoft 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.

### GCP cloud service costs

#### Google Firebase

With all its power and functionality, there are countless stories of runaway 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 imperative 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 multi-cloud environment, so you can manage and optimize your cloud costs. Learn more by visiting [cloudhealth.vmware.com](https://cloudhealth.vmware.com).