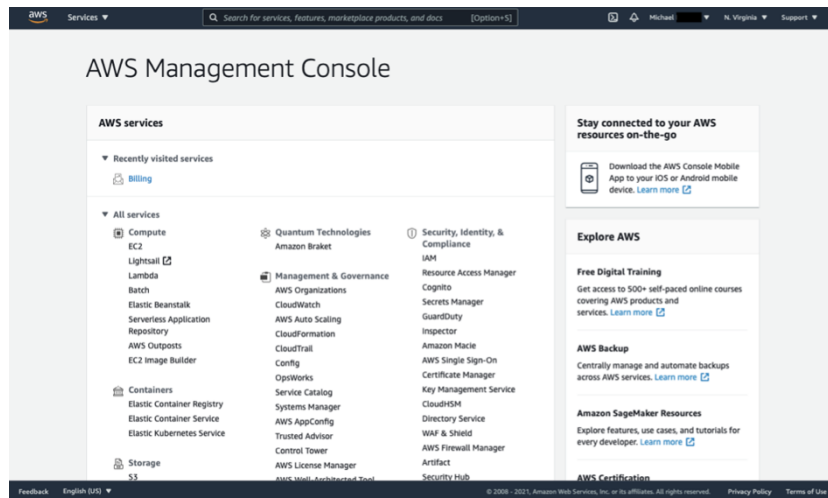


Setting Up Billing Alarm

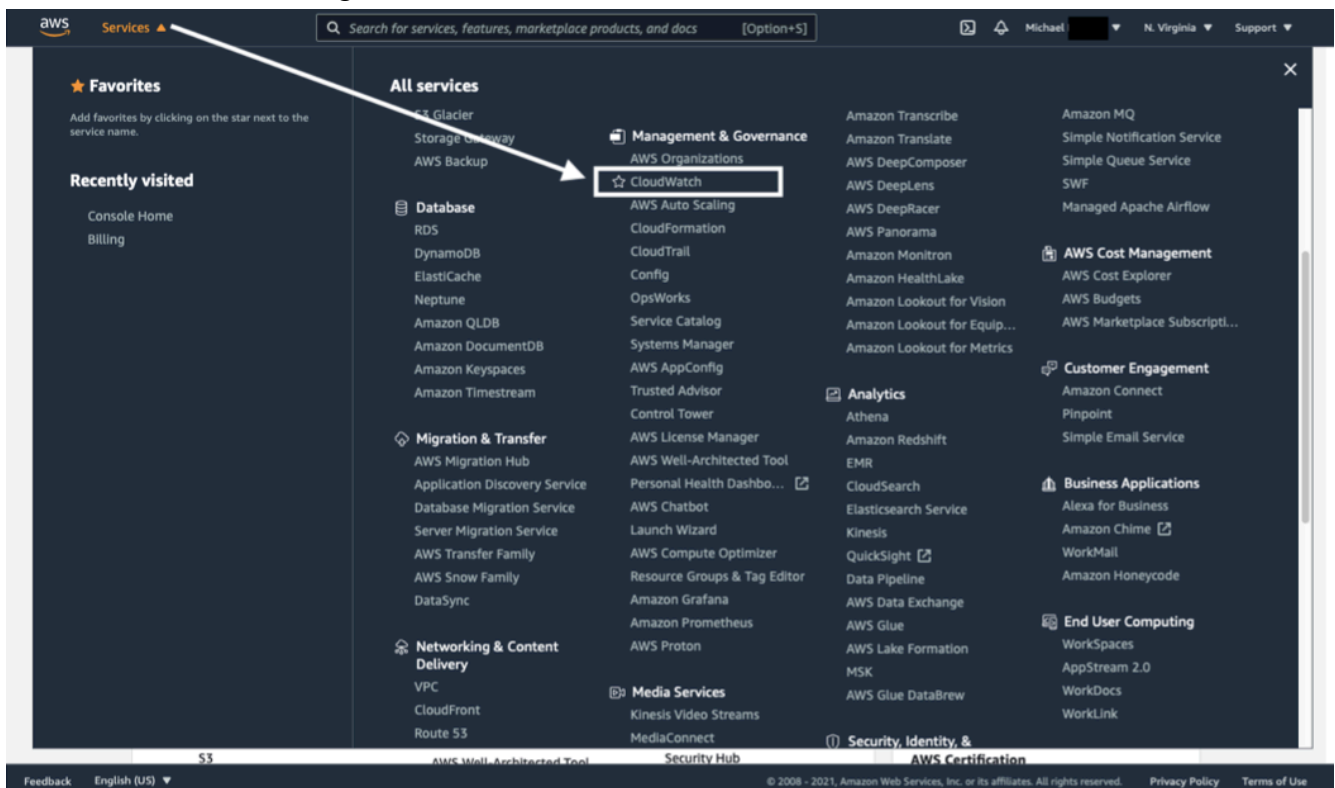
- A billing alarm is basically a dollar amount that I can set in AWS (example: \$100) that will send me an alarm as soon as the AWS bill goes over that amount for the month

Steps to Set Up Billing Alarm

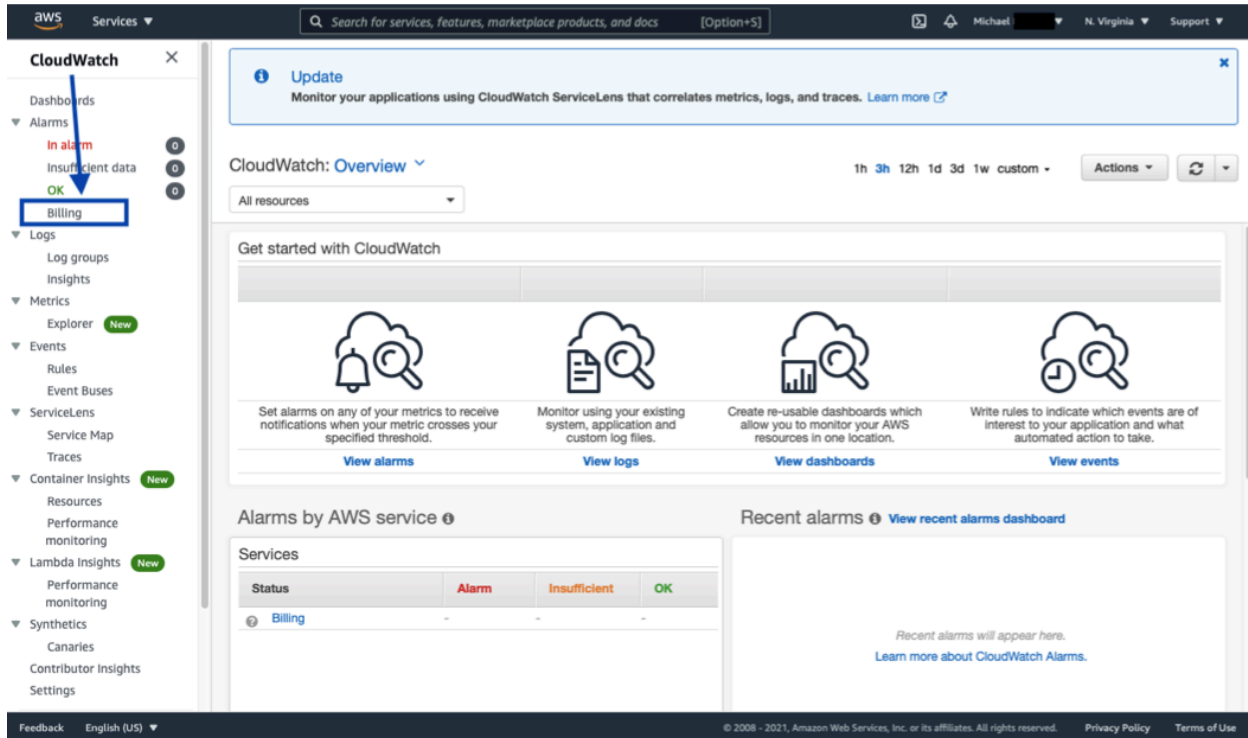
1. Log into AWS Management Console



2. Click on services and search for CloudWatch. CloudWatch is a way for monitoring my cloud. It's found under Management & Governance.



3. Once in CloudWatch Console click on billing on the left sidebar.



4. Now we will create a bill alarm

a. Click on bottom create alarm

b. Make sure that currency is set to USD and the period is set for 6 hours. Period is how often AWS will check the account to see if the bill is above the set option. In this case every 6 hours AWS will check our account.

The screenshot shows the 'Metric' configuration page in the AWS CloudWatch console. The page is titled 'Metric' and has an 'Edit' button. It contains a 'Graph' section with a line chart showing 'EstimatedCharges' over time. The chart has a y-axis labeled 'No unit' ranging from 0 to 1 and an x-axis with dates 02/03, 02/05, and 02/07. To the right of the graph, there are several input fields: 'Namespace' is set to 'AWS/Billing', 'Metric name' is 'EstimatedCharges', 'Currency' is set to 'USD' (highlighted with a blue box), 'Statistic' is set to 'Maximum' (with a search icon and a close button), and 'Period' is set to '6 hours' (highlighted with a blue box).

c. Now we will set the threshold. In our case it will be the static option. Anomaly is for detecting anomalies.

d. Next, we will set whenever estimated charge alarm to greater than \$10.00 for an alarm.

e. Click Next

Conditions

Threshold type

☒ **Static**
Use a value as a threshold

☐ **Anomaly detection**
Use a band as a threshold

Whenever EstimatedCharges is...
Define the alarm condition.

☒ **Greater**
> threshold

☐ **Greater/Equal**
>= threshold

☐ **Lower/Equal**
<= threshold

☐ **Lower**
< threshold

than...
Define the threshold value.

USD

Must be a number

► **Additional configuration**

Cancel

Next

f. Now we need an SNS topic. SNS is Simple Notification Service. We will set it as new topic and name it Billing_Alarm with our email.

Configure actions

Notification

Alarm state trigger
Define the alarm state that will trigger this action.

☒ In alarm
The metric or expression is outside of the defined threshold.

☐ OK
The metric or expression is within the defined threshold.

☐ Insufficient data
The alarm has just started or not enough data is available.

Remove

Select an SNS topic
Define the SNS (Simple Notification Service) topic that will receive the notification.

☐ Select an existing SNS topic

☒ Create new topic

☐ Use topic ARN

Create a new topic...
The topic name must be unique.

Billing_Alarm

SNS topic names can contain only alphanumeric characters, hyphens (-) and underscores (_).

Email endpoints that will receive the notification...
Add a comma-separated list of email addresses. Each address will be added as a subscription to the topic above.

Michael [redacted]

user1@example.com, user2@example.com

Create topic

g. After hitting create topic I will receive an email asking to confirm.

h. Enter an alarm name and description. Once completed hit Next

Add name and description

Name and description

Alarm name

Billing Alarm

Alarm description - optional

Alarm that gets sent via email if AWS bill goes over \$10.00.

Up to 1024 characters (60/1024)

Cancel Previous Next

i. Scroll to bottom of page and hit Create Alarm

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whenever EstimatedCharges is Greater (>) than... 10

► Additional configuration

Step 2: Configure actions Edit

Actions

Notification
When In alarm, send a notification to "Billing_Alarm"

Step 3: Add name and description Edit

Name and description

Name
Billing Alarm

Description
Alarm that gets sent via email if AWS bill goes over \$10.00.

Cancel Previous **Create alarm**

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H. I will be presented with the main CloudWatch billing summary with newly created alarm now visible. After waiting 5 mins the status of the new created billing alarm will change from insufficient to Ok.

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CloudWatch X

Dashboards

- Alarms
 - In alarm 0
 - Insufficient data 0
 - OK 1
 - Billing
- Logs
 - Log groups
 - Insights
- Metrics
 - Explorer New
- Events
 - Rules
 - Event Buses
- ServiceLens
 - Service Map
 - Traces
- Container Insights
 - Resources New
 - Performance monitoring
- Lambda Insights
 - Performance monitoring New
- Synthetics
 - Canaries
 - Contributor Insights
 - Settings

CloudWatch > Alarms

Billing alarms (1) Hide Auto Scaling alarms Clear selection Create composite alarm Actions **Create alarm**

Search Any state Any type < 1 > ⚙

| | Name | State | Last state update | Conditions | Actions |
|--------------------------|---------------|-------|---------------------|---|-------------|
| <input type="checkbox"/> | Billing Alarm | OK | 2021-02-08 16:02:27 | EstimatedCharges > 10 for 1 datapoints within 6 hours | 1 action(s) |

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