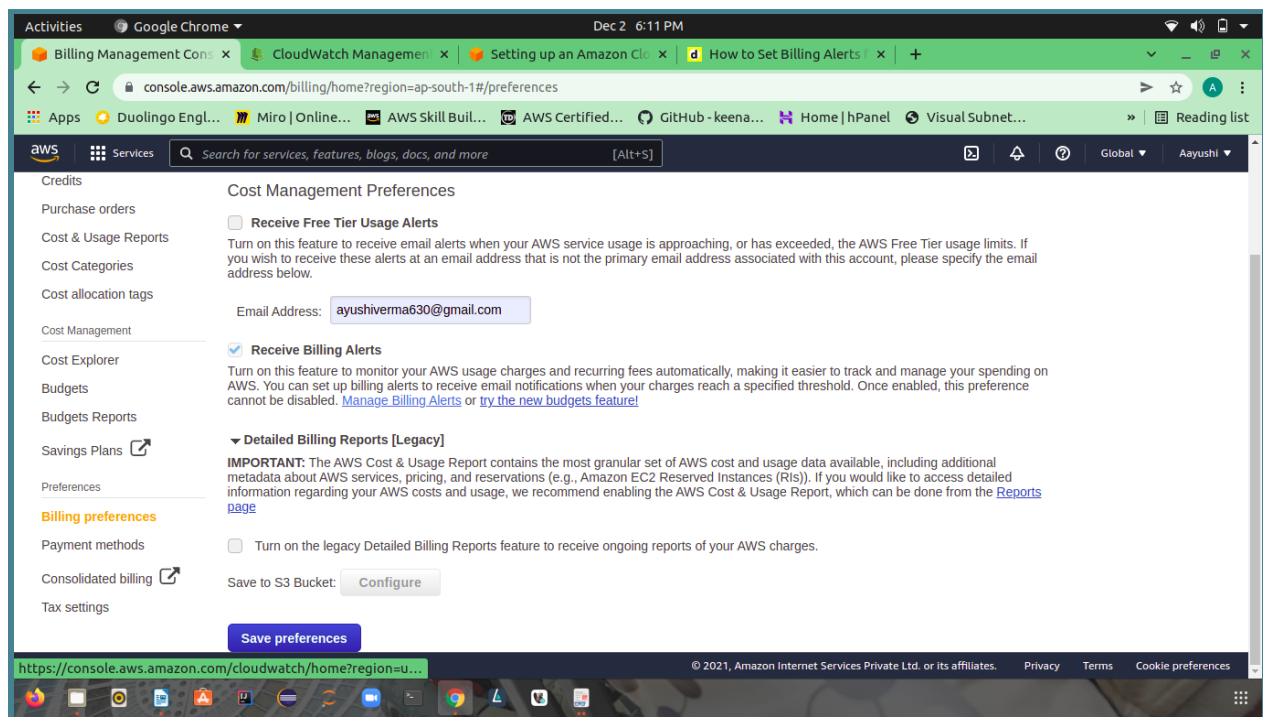


# Module - 8 CloudWatch Assignment - 5

You have been asked to:

1. Create a CloudWatch Billing Alarm which goes off when the Estimated Charges goes above 500\$
2. Create a CloudWatch Alarm which goes off to an Alarm state when the CPU utilization of an EC2 instance goes above 65%
  - a. Also add an SNS topic so it notifies the person when the threshold is crossed



Activities Google Chrome Dec 2 6:14 PM

Billing Management Console CloudWatch Management Console Setting up an Amazon CloudWatch Alarm

console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:create?-(Page~MetricSelection-AlarmType~MetricAlarm-AlarmData-(Metrics-(-)-AlarmNam...

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### Select metric

Untitled graph 1h 3h 12h 1d 3d 1w Custom Line Refresh Dropdown

**Metrics (1)** Graph with SQL Graph search

All > Billing > Total Estimated Charge

<input checked="" type="checkbox"/>	Currency (1)	Metric Name
<input checked="" type="checkbox"/>	USD	EstimatedCharges

Cancel Select metric

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Billing Management Console CloudWatch Management Console Setting up an Amazon CloudWatch Alarm

console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:create?-(Page~MetricSelection-AlarmType~MetricAlarm-AlarmData-(Namespace~AWS\*2fBil...

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Period: 6 hours

### 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

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Billing Management Console CloudWatch Management Console Setting up an Amazon CloudWatch Alarm

console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:create?~(Page~Actions~AlarmType~MetricAlarm~AlarmData~(Namespace~AWS\*2FBilling~Me...)

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conditions

Step 2 Configure actions

Step 3 Add name and description

Step 4 Preview and create

### 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

Send a notification to...

ayushiverma630@gmail.com

Only email lists for this account are available.

Email (endpoints)

Could not download the topic endpoints

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Billing Management Console CloudWatch Management Console Setting up an Amazon CloudWatch Alarm

console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:alarm/billing+alarm?

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### CloudWatch

Favorites

Dashboards

Alarms

In alarm

All alarms

Billing

Logs

Metrics

Events

Application monitoring

Insights

Settings

CloudWatch > Alarms > billing alarm

Alarms billing alarm

Actions

### Graph

View in metrics

#### EstimatedCharges

EstimatedCharges < 500 for 1 datapoints within 6 hours

No unit

500

250

0

06:00 06:30 07:00 07:30 08:00 08:30 09:00 09:30 10:00 10:30 11:00 11:30 12:00 12:30

EstimatedCharges

Click timeline to see the state change at the selected time.

Insufficient data

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Activities Google Chrome Dec 2 6:18 PM

Billing Management Console CloudWatch Management Console Setting up an Amazon CloudWatch Alarm

console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:alarm/billing+alarm?

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### CloudWatch

CloudWatch > Alarms > billing alarm

Alarms billing alarm

Name billing alarm	State Insufficient data	Namespace AWS/Billing	Datapoints to alarm 1 out of 1
Type Metric alarm	Threshold EstimatedCharges < 500 for 1 datapoints within 6 hours	Metric name EstimatedCharges	Missing data treatment Treat missing data as missing
Description No description	Last change 2021-12-02 12:48:18	Currency USD	Percentiles with low samples evaluate
Actions Actions enabled		Statistic Maximum	ARN arn:aws:cloudwatch:us-east-1:600904172815:alarm:billing alarm
Period 6 hours			

View EventBridge rule

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Instances | EC2 Management Console

console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:

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### New EC2 Experience

EC2 Dashboard  
EC2 Global View  
Events  
Tags  
Limits

### Instances

Instances New  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances New  
Dedicated Hosts  
Scheduled Instances  
Capacity Reservations

### Instances (1/1) Info

Filter Instances

Name	Instance ID	Instance state	Instance type
ASS-4	i-09d3fb963dcf85769	Running	t2.micro

Connect View details Manage instance state Instance settings Networking Security Image and templates Monitor and troubleshoot

### Instance: i-09d3fb963dcf85769 (ASS-4)

Details Security Networking Storage Status checks

Instance summary Info

Instance ID i-09d3fb963dcf85769 (ASS-4)	Public IPv4 address 54.159.143.38   open address	Private IPv4 addresses 172.31.90.33
IPv6 address	Instance state	Public IPv4 DNS

Get system log  
Get instance screenshot  
Manage detailed monitoring  
Manage CloudWatch alarms  
EC2 Serial Console  
Replace root volume

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Activities Google Chrome Dec 2 6:58 PM

CloudWatch Management x Instances | EC2 Management x CloudWatch Management x +

console.aws.amazon.com/cloudwatch/home?region=us-east-1

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### CloudWatch

Update  
Create cross-account cross-region dashboards for a complete view of your application. [Learn more](#)

CloudWatch: Overview 1h 3h 12h 1d 3d 1w custom Actions Try out the new interface

All resources

#### Alarms by AWS service

Services	Status	Alarm	Insufficient	OK
EC2	1	-	1	-
Billing	-	-	-	-
CloudWatch Logs	-	-	-	-
Elastic Block Store	-	-	-	-
Route 53	-	-	-	-
S3	-	-	-	-

#### Recent alarms

awsec2-i-09d3fb963... Warning

Percent

60 CPUUtilization >= 60 for 1...

30.1

0.169

10:25 13:25

CPUUtilization

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Activities Google Chrome Dec 2 7:01 PM

CloudWatch Management x Instances | EC2 Management x +

console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:alarm/awsec2-i-09d3fb963dcf85769-GreaterThanOrEqualToThreshold-CPUUtilization?~(alarmSt...

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### CloudWatch

CloudWatch > Alarms > awsec2-i-09d3fb963dcf85769-GreaterThanOrEqualToThreshold-CPUUtilization

Alarms awsec2-i-09d3fb963dcf85769-GreaterThanOrEqualToThreshold-CPUUtilization Actions

#### Graph

CPUUtilization OK

CPUUtilization >= 60 for 1 datapoints within 5 minutes

Percent

60

30.1

0.169

10:30 10:45 11:00 11:15 11:30 11:45 12:00 12:15 12:30 12:45 13:00 13:15 13:30

CPUUtilization

Click timeline to see the state change at the selected time.

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