# **Cloud Watch Alarm Creation**

## **Problem Statement:**

You work for TechArkit Corporation. To maintain the security of the AWS account and the resources you have been asked to implement a solution that can help easily recognize and monitor the different users. Also, you will be monitoring the machines created by these users for any errors or misconfigurations.

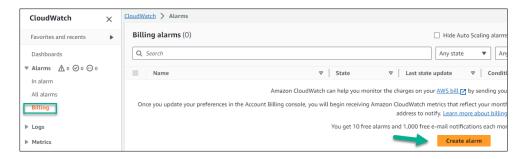
### Tasks to Be Performed:

- 1. Create a CloudWatch billing alarm that goes off when the estimated charges go 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%. Also, add an SNS topic so that it notifies the person when the threshold is crossed.

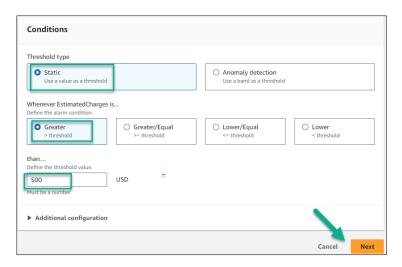
### **Answer**

Login to the AWS Management console then search for Cloudwatch



### CloudWatch → Alarms → Billing → Create Alarm





Select the conditions based on your requirement

Type: Static

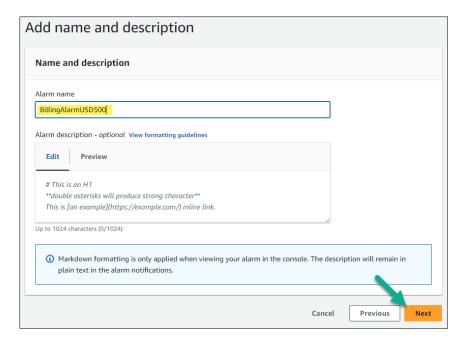
Estimated Charges: Greater than

\$500

## Click Next

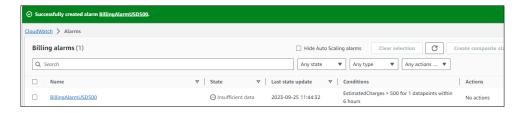
Configure actions
Notification
Add notification
Auto Scaling action
Add Auto Scaling action
EC2 action
This action is only available for EC2 Per-Instance Metrics.  Add EC2 action
Systems Manager action Info [2]
This action will create an Incident or Opsitem in Systems Manager when the alarm is <b>In alarm</b> state.  Add Systems Manager action
Cancel Previous Next

Click **Next** 



Preview and confirm the alarm

#### "Create Alarm"

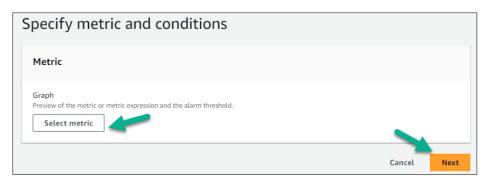


The alarm was Created successfully as per the requirement. Which will trigger the alarm when the usage of the AWS account reaches \$500.

# **Creating an Alarm for CPU Utilization notification**

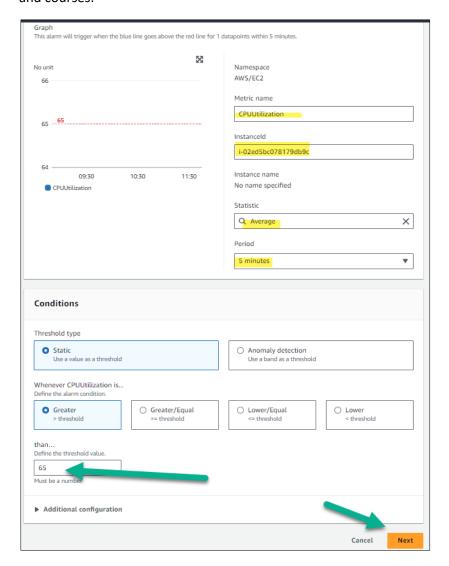
CloudWatch → In Alarm → Create Alarm





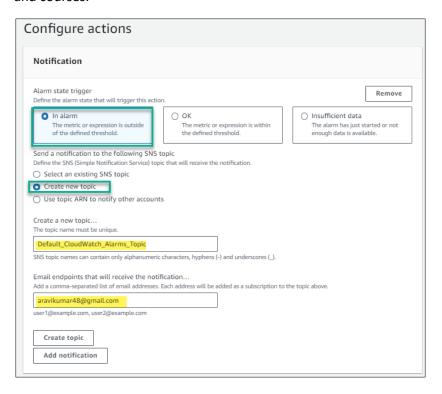
### Select metric → EC2 → Per-Instance Metrics → CPU Utilization





Select the threshold Greater/Equal => 65%

Click Next



I do not have an SNS topic already created so I am creating a new SNS topic, if you have already a topic just select the existing SNS topic

### Click "Create Topic"

### Click Next

Add name and description	
Name and description	
Alarm name	
CPUUtilization65	
Alarm description - optional View formatting guidelines	
Edit Preview	
# This is an H1	
**double asterisks will produce strong character**	
This is [an example](https://example.com/) inline link.	
Up to 1024 characters (0/1024)	
Markdown formatting is only applied when viewing your alarm in the console. The designal text in the alarm notifications.	cription wit, remain in
Cancel	Previous Next

Provide the Alarm Name, Click Next

Preview and Create the Alarm



In order to get the email notifications you have to confirm the subscription from your email address



# **Foundations of Cloud Computing**

- AWS Certified Cloud Practitioner
- The Cloud
- <u>6 Advantages of Cloud</u>
- Cloud Deployment Models
- AWS Global Infrastructure
- AWS Free Tier Account

# **Technology**

- AWS Cloud Compute
- AWS Lambda Function-as-a-service
- AWS Fargate
- What is CDN
- <u>AWS S3</u>
- AWS Storage Services
- AWS CloudFront
- AWS VPC
- AWS Networking Services
- How to Launch First EC2 instance
- AWS Database Services Deep Dive
- AWS Migration Services
- AWS Analytics Services