### **What is Amazon CloudWatch Event?**

Amazon CloudWatch Events (now part of Amazon EventBridge) enables you to automate AWS services by triggering actions based on predefined schedules or system events. In this case, we use CloudWatch Events to trigger an AWS Lambda function every 15 seconds.

### **Why Use CloudWatch Events?**

* Automates function execution without manual intervention.
* Reduces operational overhead by scheduling periodic tasks.
* Can trigger functions based on specific AWS events or a custom schedule.

### **Steps to Set Up a CloudWatch Event Rule**

#### **1. Navigate to the Amazon EventBridge Console**

1. Sign in to the **AWS Management Console**.
2. Open the **Amazon EventBridge** service.
3. Click on **Rules** in the left panel.
4. Click **Create rule**.

#### **2. Configure the Rule**

1. **Define the Rule Name:** Provide a meaningful name, e.g., TriggerLambdaEvery15Seconds.
2. **Event Source:** Choose **Schedule**.

**Define Schedule Pattern:** Use **cron expression**:  
 cron(0/15 \* \* \* ? \*)

1. This ensures the Lambda function is triggered every 15 seconds.

#### **3. Choose Target (AWS Lambda Function)**

1. Under **Targets**, click **Add target**.
2. Select **AWS Lambda function**.
3. Choose the Lambda function you want to trigger.
4. Click **Configure details** and **Create rule**.

#### **4. Verify the CloudWatch Event Trigger**

1. Navigate to the **AWS Lambda Console**.
2. Select the Lambda function you attached to the CloudWatch event.
3. Go to the **Configuration** tab → **Triggers**.
4. You should see the newly created CloudWatch Event as a trigger.