

# Analyzing Performance of EBS Volumes with CloudWatch

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# Overview



Notifying *Globomantics* administrator each time a new snapshot is created

## Amazon CloudWatch Events for Amazon EBS

- What is AWS CloudWatch?
- EBS Volume Events
- EBS Snapshot Events

## Using Amazon Lambda to handle CloudWatch Events

- Send email on new EBS snapshot

Demo: Email the administrator after EBS snapshot is created

## Summary



# Amazon CloudWatch Events for EBS Volumes

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# What Is AWS CloudWatch?



CloudWatch can monitors resources and applications on Amazon AWS in real time



Use CloudWatch to collect and track metrics for these resources and applications.



Amazon CloudWatch “Events”, deliver a near real-time stream of events that describe changes in AWS resources. Events are in JSON.



You can create “Rules” to trigger programmatic actions in response to CloudWatch events.



Amazon EBS sends CloudWatch notifications for a variety of volume and snapshot events. You can establish rules that trigger programmatic actions in response to these CloudWatch events.



# “EBS Volume” Events

## Create Volume (createVolume)

Is sent when an action to create an EBS volume completes (*available* or *failed*)

## Delete Volume (deleteVolume)

Is sent when an action to delete a volume completes (*deleted* or *never sent*)

## Volume Attach or Reattach (attachVolume, reattachVolume)

Is sent if a volume fails to attach or reattach to an instance



# “EBS Snapshot” Events

## Create Snapshot (createSnapshot)

Is sent when an action  
to create a snapshot  
completes  
(*succeeded or failed*)

## Copy Snapshot (copySnapshot)

Is sent when an action  
to copy a snapshot  
completes  
(*succeeded or failed*)

## Share Snapshot (shareSnapshot)

Is sent when another  
account shares a  
snapshot with it  
(always *succeeded*)



# Using Amazon Lambda to Handle CloudWatch Events

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# AWS Lambda



AWS Lambda is a compute service that lets you run code without provisioning or managing servers



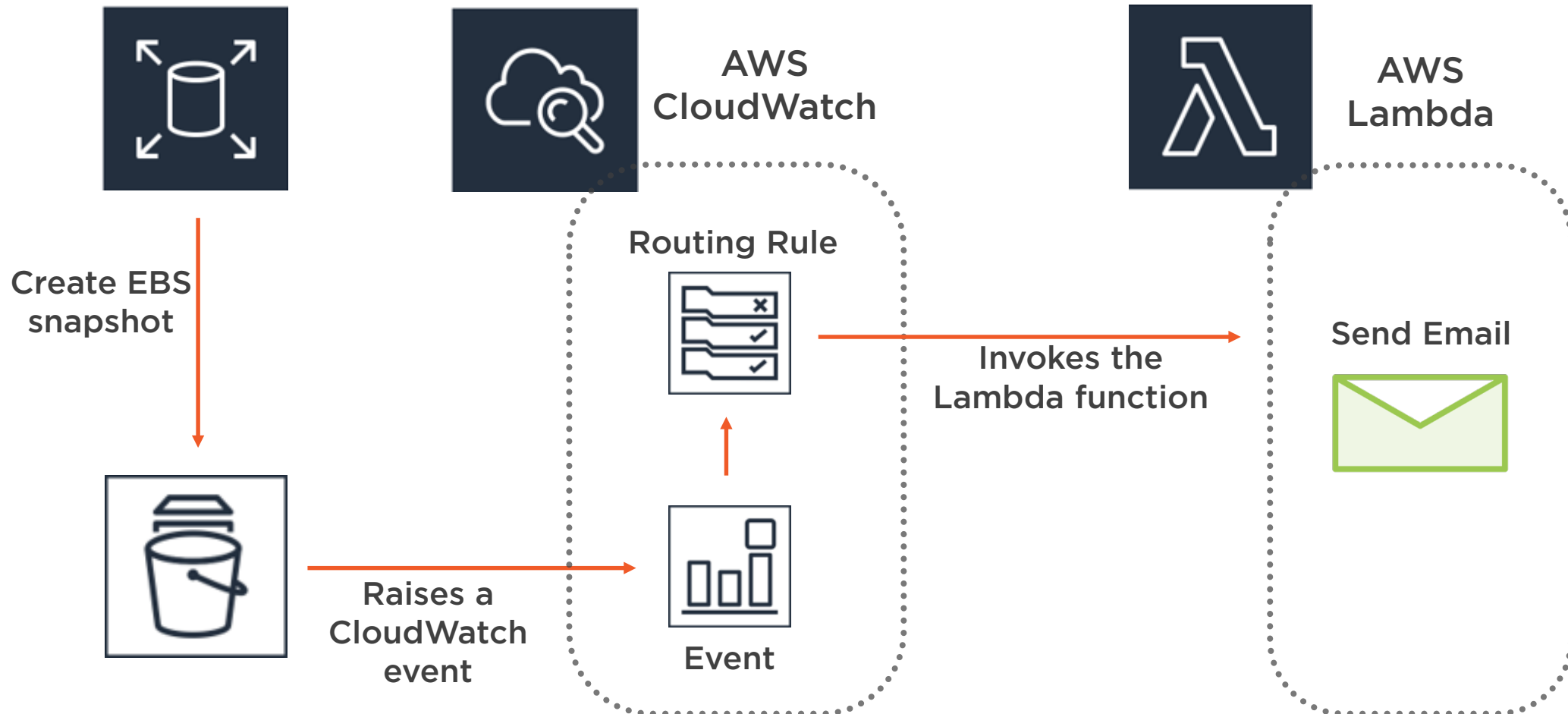
You can use AWS Lambda to run your code in response to events, such as an EBS snapshot being created



You can also build “serverless” applications composed of functions



# Using Amazon Lambda to Handle CloudWatch Events



# Demo



Send an email notification to the *Globomantics* administrator each time a new EBS snapshot is created



# Summary



Notifying *Globomantics* administrator each time a new snapshot is created

## Amazon CloudWatch Events for Amazon EBS

- What is CloudWatch?
- EBS Volume & Snapshot Events

Using Amazon Lambda to send email after new EBS snapshot is created

- Introduction to AWS Lambda

Demo: Send email after EBS snapshot creation

Course summary

