

Monitoring Your Architecture



Mike Erickson

DEVELOPER, ARCHITECT, TRAINER, SPEAKER, AUTHOR

@mgerickson





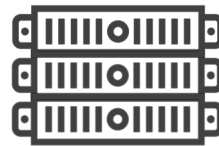
Team



Artifacts



Build



Deploy



Test

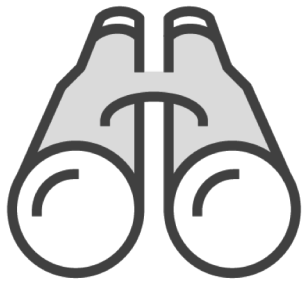


Release



Metrics





Monitor:

- Resources
- Application
- Operations

Respond:

- Ignore
- Manually
- Automate
- Modify



Observer Effect:

Simply observing a situation necessarily changes that situation





CloudWatch

Metrics:

- Built in
- Custom

Combine information

- Application
- Infrastructure

AWS or on-premises





Actions:

- Autoscaling
- Messages
- Lambda functions

Analytics

Historical data



Setting up a CloudWatch Log



Log S3 Object Deletes

1

Create
CloudTrail Trail

2

Create
Lambda function

3

Create
CloudWatch Rule



Configure CloudTrail

Showing 1 of 1 resources

Bucket name ▼	Prefix ▼	Read ▼	Write ▼	
<input type="checkbox"/> Select all S3 buckets in your account ⓘ		<input checked="" type="checkbox"/> Read	<input checked="" type="checkbox"/> Write	
<input type="text" value="medical-equipment-life-extender"/>	<input type="text" value="/ Prefix (optional)"/>	<input checked="" type="checkbox"/> Read	<input checked="" type="checkbox"/> Write	✕

[+ Add S3 bucket](#)

Storage location

Create a new S3 bucket ☒ Yes ☐ No

S3 bucket* ⓘ



Lambda Function - Write Event Data to Log

```
'use strict';

exports.handler = (event, context, callback) => {
    console.log('LogMedicalEquipmentSiteDeletes');
    console.log('File deleted from bucket:',
        JSON.stringify(event));
    callback(null, 'Finished');
};
```



Create CloudWatch Rule

Event Source

Build or customize an Event Pattern or set a Schedule to invoke Targets.

☒ Event Pattern ⓘ ☐ Schedule ⓘ

Build event pattern to match events by service ▼

Service Name

Event Type

AWS API Call Events sent by CloudTrail will only match your rules if you have trail(s) (optionally with event selectors) configured to received those events. See [CloudTrail](#) for further details.

☐ Any operation ☒ Specific operation(s)

☐ Any bucket ☒ Specific bucket(s) by name

Targets

Select Target to invoke when an event matches your Event Pattern or when schedule is triggered.

Lambda function ▼

Function*

▸ Configure version/alias

▸ Configure input



View CloudWatch Log

File deleted ✕	
Time (UTC +00:00)	Message
2019-02-19	
	No older events found for the selected filter and date range. Adjust the date range or clear filter .
▶ 05:39:03	2019-02-19T05:39:03.679Z 45931a7b-5cc9-4ac5-934a-fb88e9d6292a File deleted from bucket: {"version":"0","id":"ca8f691
	No newer events found for the selected filter and date range. Adjust the date range or clear filter .



Learn More from Pluralsight

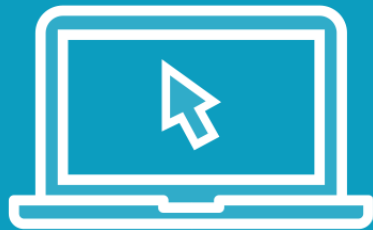
Monitoring Servers and Services with AWS CloudWatch

by Ben Thomas

Are you looking to use native AWS tools to monitor your AWS services and other servers? In this course, you will learn how to use the powerful CloudWatch monitoring toolset built right into the AWS platform for your own operations environment.



Demo



AWS - the big picture





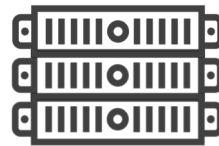
Team



Artifacts



Build



Deploy



Test



Release



Metrics





Focus
Practice
Improve





Understanding the trade offs

