Monitoring ELB

## Service Overview

## *You can use the following features to monitor your load balancers, analyze traffic patterns, and troubleshoot issues with your load balancers and back-end instances.*

## *CloudWatch metrics*

## *Elastic Load Balancing publishes data points to Amazon CloudWatch about your load balancers and back-end instances.*

## *Elastic Load Balancing access logs*

## *The access logs for Elastic Load Balancing capture detailed information for requests made to your load balancer and stores them as log files in the Amazon S3 bucket that you specify.*

## *CloudTrail logs*

## *AWS CloudTrail enables you to keep track of the calls made to the Elastic Load Balancing API by or on behalf of your AWS account. CloudTrail stores the information in log files in the Amazon S3 bucket that you specify.*

## Use cases / Considerations

* *You can use Cloudwatch metrics to verify that your system is performing as expected. For example, you can monitor the total number of healthy EC2 instances for a load balancer over a specified time period. You can create a CloudWatch alarm to monitor a specified metric and initiate an action (such as sending a notification to an email address) if the metric goes outside what you consider an acceptable range.*
* *Elastic Load Balancing provides access logs that capture detailed information about requests sent to your load balancer. Each log contains information such as the time the request was received, the client's IP address, latencies, request paths, and server responses. You can use these access logs to analyze traffic patterns and to troubleshoot issues.*
* *CloudTrail captures all API calls for Elastic Load Balancing as events. Using the information collected by CloudTrail, you can determine the request that was made to Elastic Load Balancing, the IP address from which the request was made, who made the request, when it was made, and additional details.*

## Governance

*N/A*

## Cautions

*Elastic Load Balancing logs requests on a best-effort basis. It's recommended that you use access logs to understand the nature of the requests, not as a complete accounting of all requests.*

## Pricing considerations

[*Amazon CloudWatch Pricing*](https://aws.amazon.com/cloudwatch/pricing/)

[*Amazon S3 Pricing*](https://aws.amazon.com/s3/pricing/)

## More details

# [*Monitor your Application Load Balancers*](https://docs.aws.amazon.com/elasticloadbalancing/latest/application/load-balancer-monitoring.html)

# [*Troubleshoot your Application Load Balancers*](https://docs.aws.amazon.com/elasticloadbalancing/latest/application/load-balancer-troubleshooting.html)