

# How to - Configure AWS Route 53 to forward logs to EventTracker

EventTracker v9.2x and above

## Abstract

This guide helps you in configuring **AWS Route 53** for **EventTracker** to receive AWS Route 53 events. You will find the detailed procedures required for monitoring AWS Route 53.

## Scope

The configurations detailed in this guide are consistent with **EventTracker v9.2x** and later, **AWS Route 53**

## Audience

AWS Route 53 users, who wish to forward Events to EventTracker and monitor events using EventTracker.

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## 1. Overview

Amazon Route 53 is a highly available and scalable cloud Domain Name System (DNS) web service. It is designed to provide developers and businesses a way to route end users to Internet applications. Amazon Route 53 is fully compliant with IPv6 as well.

EventTracker helps to monitor events from AWS Route 53. The dashboard and reports help in monitoring DNS query activities.

EventTracker's built-in knowledge pack enables you to gather business intelligence providing increased security, performance, availability, and reliability of your systems.

Through alerts, knowledge base solutions, and reports, EventTracker helps you correct problems long before a disastrous failure occurs.

## 2. Prerequisites

- AWS Subscription
- EventTracker Public Manager IP

## 3. Integrating of AWS Route 53 with EventTracker

**Note:** We need to enable **DNS query logging** before sending logs.

1. Sign-in to **AWS Management** Console and open **Route 53** console at <https://console.aws.amazon.com/route53/>
2. In the navigation pane, choose **Hosted zones**.
3. Click on the hosted zone that you want to configure query logging for.
4. In the Hosted zone details pane, choose **Configure query logging**.
5. Choose an existing log group or create a new log group.

**Configure query logging** [Info](#)

**Query logging configuration name**

**Name**  
A friendly name lets you find a Resolver query logging configuration in the dashboard.

The name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, space, \_ (underscore) and - (hyphen)

**Query logs destination** [Info](#)  
Resolver can save logs in CloudWatch Logs, in an S3 bucket, or in Kinesis Data Streams.

**Destination for query logs**  
Choose where you want Resolver to publish query logs. Standard storage charges apply.

**CloudWatch Logs log group**  
You can analyze logs with Logs Insights and create metrics and alarms.

**S3 bucket**  
An S3 bucket is economical for long-term log archiving. Latency is typically higher.

**Kinesis Data Firehose delivery stream**  
You can stream logs in real time to Elasticsearch, Redshift, or other applications.

**CloudWatch Logs log groups**  
You can either choose a CloudWatch Logs log group that was created by the current account, or choose to create a log group for this query logging configuration.

Figure 1

6. In the **Destination for query logs**, choose **CloudWatch Logs log group** option.
7. If you receive an alert about permissions (this happens if you have not configured query logging with the new console before), do one of the following:
  - If you have 10 resource policies already, you cannot create any more. Select any of your resource policies and click **Edit**. Editing will give Route 53 permissions to write logs to your log groups. Click **Save**. Once the alert disappears and you can continue.
  - If you have never configured query logging before (or if you have not created 10 resource policies already), you need to grant permissions to Route 53 to write logs to your CloudWatch Logs groups. Choose Grant permissions. Once the alert disappears and you can continue.
8. Choose Permissions - **optional** to see a table that shows whether the resource policy matches the CloudWatch log group, and whether the Route 53 has the permission to publish logs to CloudWatch.
9. Click on **Configure query logging**.

Once we enabled query logging on route 53. We need to integrate CloudWatch with EventTracker using EventTracker lambda function.

### 3.1 Integrate CloudWatch with EventTracker using EventTracker lambda function

1. Click on **services** and select **lambda**.

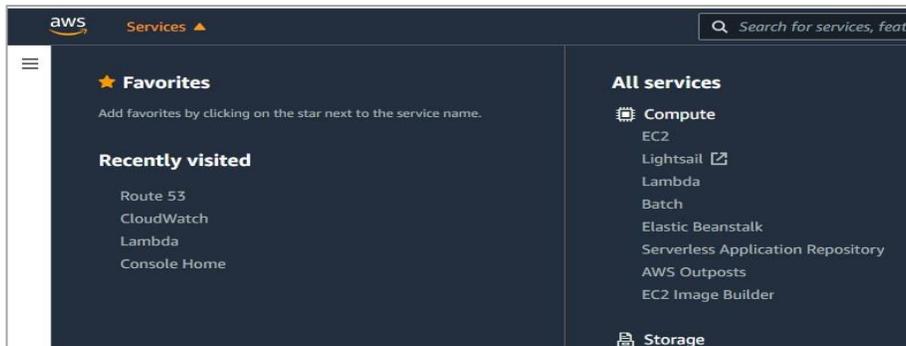


Figure 2

2. In the navigation pane choose **Functions**, then click on **create function**.

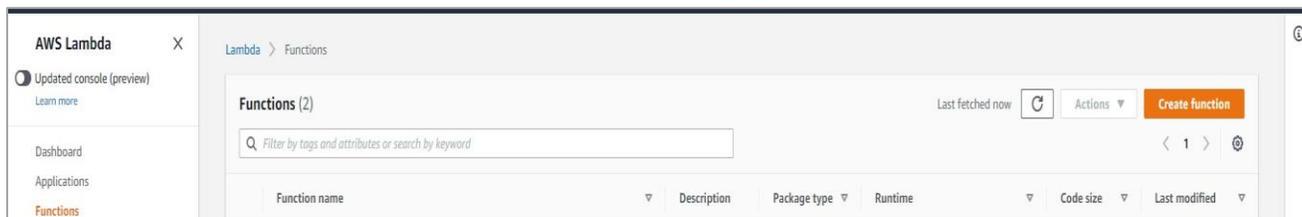


Figure 3

3. Select **Browse serverless app repository**.
4. Search **EventTracker** in public applications. You will get the **EventtrackerAWSAgent** in results.

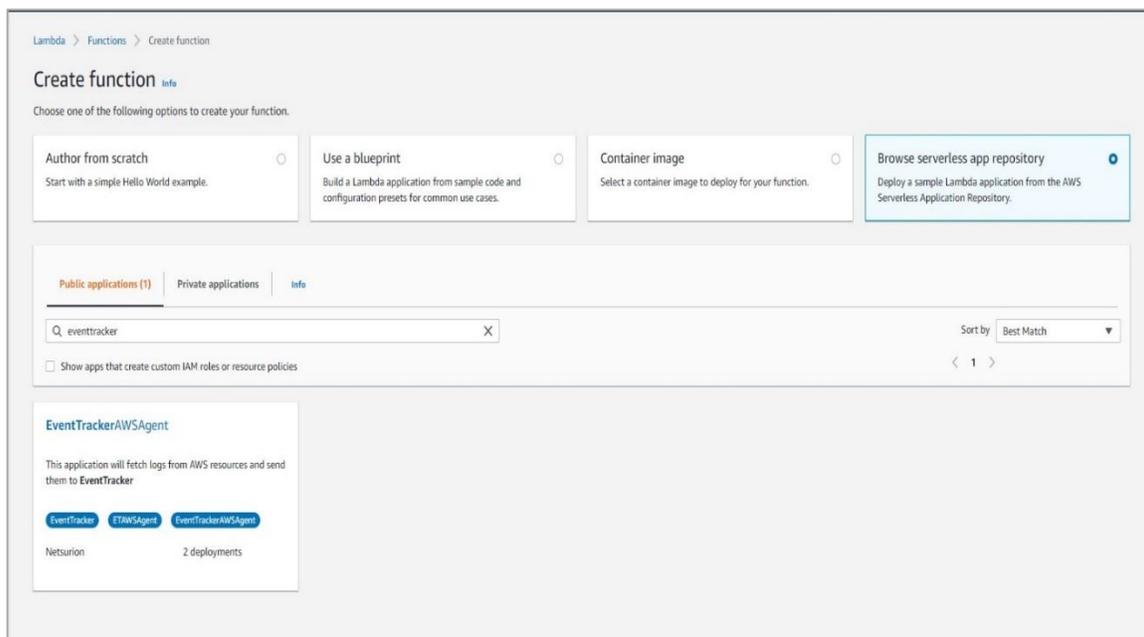
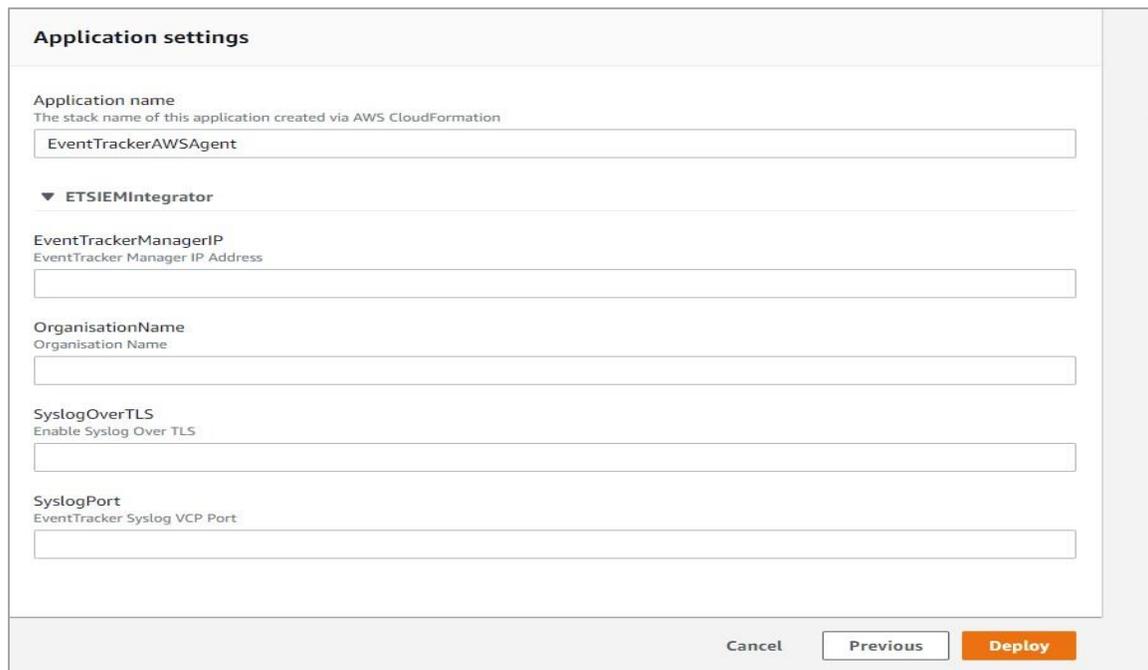


Figure 4

5. Fill the details and click on **deploy**.



**Application settings**

Application name  
The stack name of this application created via AWS CloudFormation

EventTrackerAWSAgent

▼ ETSIEMIntegrator

EventTrackerManagerIP  
EventTracker Manager IP Address

OrganisationName  
Organisation Name

SyslogOverTLS  
Enable Syslog Over TLS

SyslogPort  
EventTracker Syslog VCP Port

Cancel Previous **Deploy**

Figure 5

6. Enter the EventTracker Public Manager IP.
7. Enable syslog over TLS as **True** or **False**.
8. Enter the syslog port.
9. After you click deploy, a function is created.

## 3.2 Create Subscription Filters

1. Click on **services** and select **CloudWatch**.
2. In the navigation pane, choose **log group**.
3. Click on the **log group** provided while creating **query logging**.
4. Go to **subscription filter**.

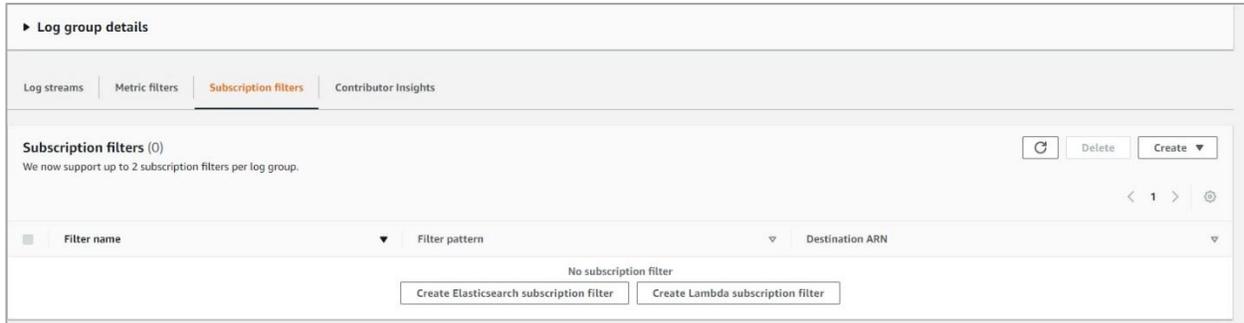


Figure 6

5. Click on **create lambda subscription filter**.
6. Under lambda function, select the lambda function (created after deploying the application) created from the dropdown.
7. Enter subscription filter name, i.e. **route53Trigger**.
8. Click on **start streaming**.

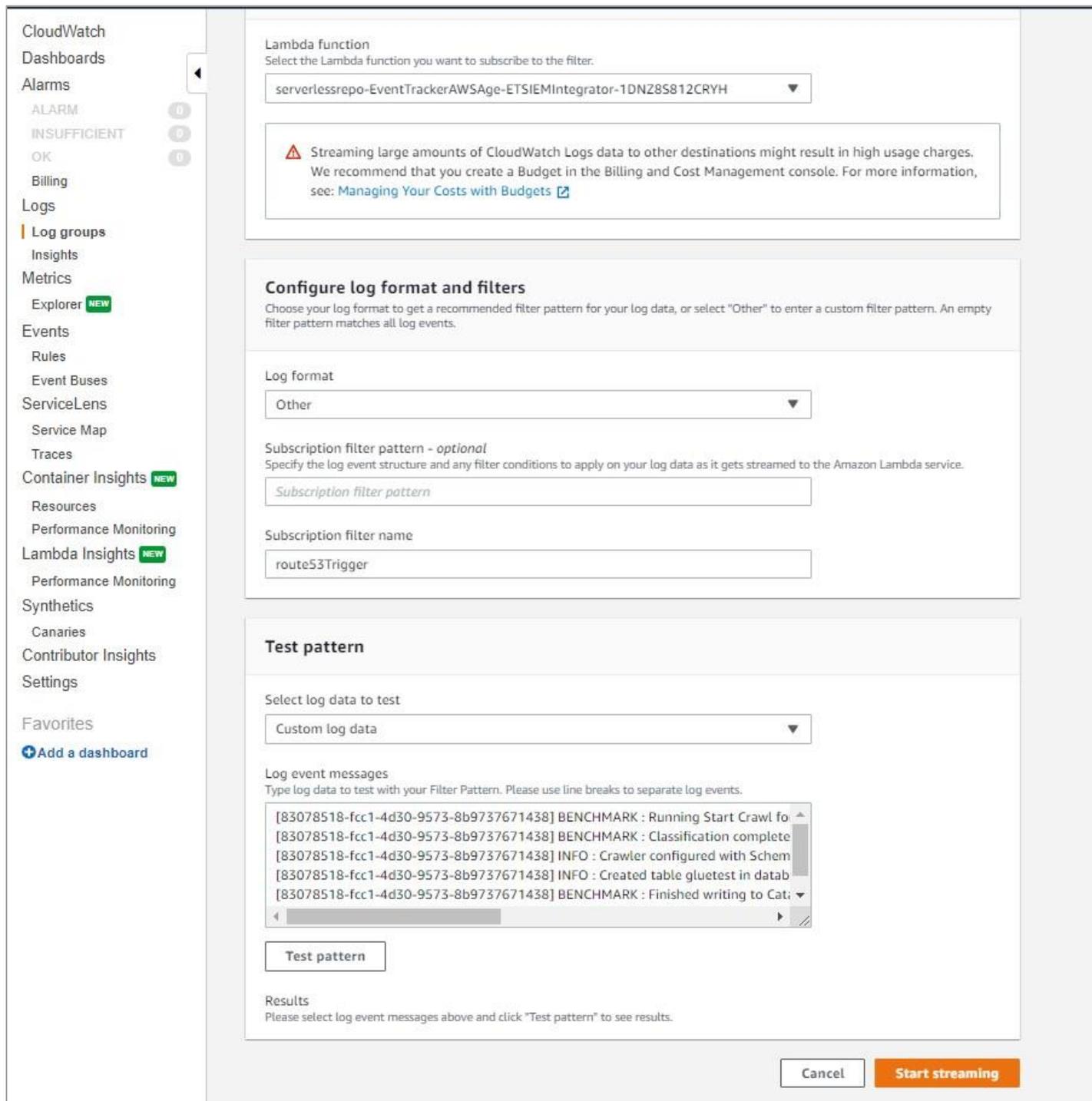


Figure 7

Integration is complete. CloudWatch logs will be sent to Eventtracker.