

APPLICATION DEVELOPMENT ON CLOUD

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LAB-11: X-Rays

→creation of x-ray automatically creates CloudFormation

New X-Ray console experience now available
We've redesigned the X-Ray console to make it easier to use, and we've integrated it with CloudWatch so that you can view logs, metrics, and traces in one place. Try out the new console.

Getting started with AWS X-Ray

Step 1: Options

Select sample or your own application

Step 2: Language

Step 3: Implementation

Launch a sample application (Node.js)

Instrument your application

Cancel Next

Feedback Looking for language selection? Find it in the new Unified Settings [?](#)

CloudFormation - Stack

Step 1 Specify template

Prerequisite - Prepare template

Prepare template Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

Template is ready Use a sample template Create template in Designer

Specify template A template is a JSON or YAML file that describes your stack's resources and properties.

Template source Selecting a template generates an Amazon S3 URL where it will be stored.

Amazon S3 URL Upload a template file

Amazon S3 URL <https://s3.amazonaws.com/aws-xray-assets.us-east-2/samples/aws-xray-sample-template.yaml>

Amazon S3 template URL

S3 URL: <https://s3.amazonaws.com/blue-xray-accounts-us-east-2/canary/blue-xray-sample-template.yaml> View in Designer

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ENG IN 11:14 25-06-2022

Screenshot of the AWS CloudFormation - Stack creation wizard:

Specify stack details

- Step 1: Specify template**
- Step 2: Specify stack details** (Current Step)
 - Stack name:** xray-sample
 - Parameters:**
 - Subnet:** subnet-01b8e850c7a5c4fd
 - VPC:** vpc-0fe228c120214b45f
- Step 3: Configure stack options**
- Step 4: Review**

Buttons at the bottom: Cancel, Previous, Next

Feedback bar: Looking for language selection? Find it in the new Unified Settings

CloudFormation - Stack xray-sample

Events (1)

Timestamp	Logical ID	Status	Status reason
2022-06-25 11:14:53 UTC+0530	xray-sample	CREATE_IN_PROGRESS	User Initiated

Feedback bar: Looking for language selection? Find it in the new Unified Settings

EBS page

Elastic Beanstalk

Environments

Applications

Change history

All environments

Environment name	Health	Application name	Date created	Last modified	URL	Running versions	Pl
xray-sample	Ok	xray-sample	2022-06-25 11:17:19 UTC+0530	2022-06-25 11:20:48 UTC+0530	xray-sample.eba-mgmsdbc.us-east-2.elasticbeanstalk.com	xray-sample-elasticbeanstalkapplicationversion-1xkt6a9y14ct	Nc rui 64 An Lir

Click on xray-sample-> open the link -> start

A New Startup

Home About Blog Press

AWS X-Ray Sample Application

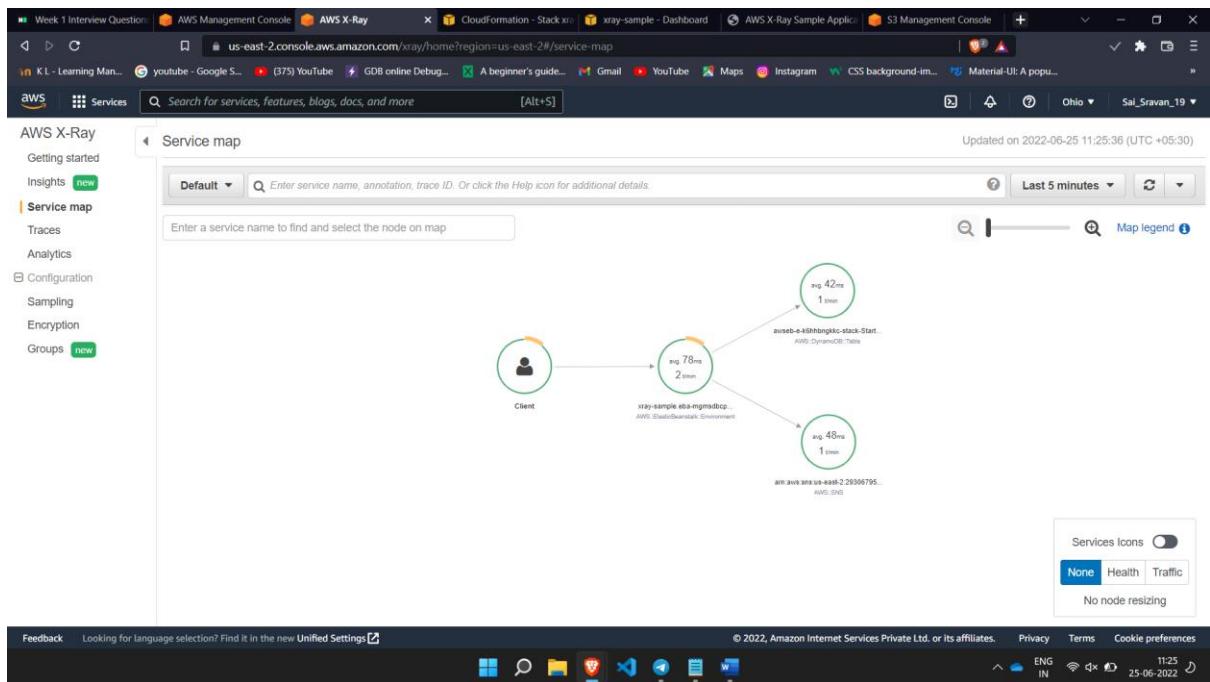
Aww yeah, you've successfully launched the AWS X-Ray sample application. Use the start/stop buttons below to control the generation of signup requests. The application will generate up to 10 signup requests per minute with a duplicate signup each minute. Alternatively, you can use the form below to manually generate signup requests. Once you've generated a few requests, go to the [AWS X-Ray Console](#) to view the service map and traces.

Status: request #9, signing up email-kl19ina2ok@aws-xray-testing.com

The next big thing is coming...

We're pretty thrilled to unveil our latest creation. Sign up below to be notified when we officially launch!

The service map in x-ray is getting updated like this



Traces of the application is shown below

The screenshot shows the AWS X-Ray Traces page. The sidebar includes "AWS X-Ray" (Getting started, Insights, Service map, Traces, Analytics, Configuration, Sampling, Encryption, Groups), "AWS Management Console", "AWS X-Ray", "CloudFormation - Stack xay-sample", "xay-sample - Dashboard", "AWS X-Ray Sample Application", "S3 Management Console", and other tabs. The main area is titled "Traces" with a "Default" dropdown and a search bar. It features a "Trace overview" section with a table grouped by URL, showing metrics like AVG RESPONSE TIME and % OF TRACES. Below is a "Trace list" table with columns: ID, AGE, METHOD, RESPONSE, RESPONSE TIME, URL, CLIENT IP, and ANNOTATIONS. The table lists several traces with details such as response times (e.g., 82.8 ms, 4.0 ms, 33.0 ms) and client IPs (e.g., 103.206.105.77). The status bar at the bottom shows "Feedback Looking for language selection? Find it in the new Unified Settings" and system information like "© 2022, Amazon Internet Services Private Ltd. or its affiliates.", "Privacy", "Terms", "Cookie preferences", "ENG IN", "11:26", and "25-06-2022".

ID	AGE	METHOD	RESPONSE	RESPONSE TIME	URL	CLIENT IP	ANNOTATIONS
...3534a63d4c	1.9 min	GET	200	33.0 ms	http://xray-sample...	103.206.105.77	0
...308bbd9f472	1.7 min	POST	201	131 ms	http://xray-sample...	103.206.105.77	3
...5288592484	1.8 min	POST	201	174 ms	http://xray-sample...	103.206.105.77	3
...49cb304342	1.2 min	POST	201	67.0 ms	http://xray-sample...	103.206.105.77	3
...8e82bb655a	1.5 min	POST	201	87.0 ms	http://xray-sample...	103.206.105.77	3
...b7fc13c2303	1.1 min	POST	201	53.0 ms	http://xray-sample...	103.206.105.77	3

Analytics of the applications is shown below

The screenshot shows the AWS X-Ray Insights dashboard. On the left, a sidebar menu includes 'AWS X-Ray' (selected), 'Getting started', 'Insights' (new), 'Service map', 'Traces', 'Analytics' (selected), 'Configuration', 'Sampling', 'Encryption', and 'Groups' (new). The main content area displays 'Retrieved traces' (12 traces) and a 'Filtered trace set A' (12 traces). It features two charts: 'Response time distribution' (a histogram of latency peaks at 20ms, 40ms, 60ms, 80ms, 120ms, 140ms) and 'Time series activity' (a heatmap of trace density over time from 05:51:00 AM to 05:56:00 AM). A note at the bottom says 'Select rows from the following tables to filter traces. Choose the cog icon to explore table configuration options.' The top navigation bar includes tabs for 'AWS Management Console', 'AWS X-Ray', 'CloudFormation - Stack x...', 'xray-sample - Dashboard', 'AWS X-Ray Sample Application', 'S3 Management Console', and 'Week 1 Interview Question'. The status bar at the bottom right shows 'ENG IN' and the date '25-06-2022'.

Insights in X-ray shows the anomalies(errors), since no errors are found , nothing is shown

The screenshot shows the AWS X-Ray Insights dashboard. The sidebar menu is identical to the previous one. The main content area displays a message 'AWS X-Ray recently released Insights. To submit feedback, choose Provide feedback or send email to xray-insights-feedback@amazon.com.' Below this is a 'Success' message: 'Enabled X-Ray Insights on Default group'. A table with columns 'Description', 'Duration', 'Root cause service', 'Anomalous services', 'Group', and 'Start time' is shown, with a note 'No results found.' The top navigation bar and status bar are identical to the first screenshot.