

### Description

In this half-day course, you will use Amazon Athena, Amazon Aurora, and Amazon Elasticsearch Service (Amazon ES) to discover, query, and visualize geospatial data sets. Finding business intelligence in data often means drawing unexpected conclusions about correlations, and geolocation of data across time can lead to interesting findings. You will learn how to enable geospatial querying for a variety of data sources and visualize the results on a map.

### Intended Audience

This course is intended for:

- Software developers
- Technical leadership
- Data scientists

### Course Objectives

In this course, you will learn how to:

- Enable geospatial discovery of data in Amazon Athena, Amazon ES, and Aurora
- Create exciting visual map-based results of geospatial discoveries

### Prerequisites

We recommend that attendees of this course have the following prerequisites:

- High-level familiarity with the AWS Management Console and services such as Aurora and Amazon ES
- Familiarity with database technologies, both relational and NoSQL
- Familiarity with finding data from databases, such as SQL and NoSQL filtering

### Delivery Method

This course is delivered through a mix of:

- Classroom training
- Hands-on labs

### Hands-On Activity

This course allows you to test new skills and apply knowledge to your working environment through a variety of practical exercises.

### Duration

Half Day

### Course Outline

This course covers the following concepts:

- Classroom training
  - Big Data Concepts
  - Geospatial Concepts
  - Introduction to Amazon Athena
  - Introduction to Amazon ES / Kibana for visualizations
  - Introduction to Aurora

- Hands-on labs
  - Enable geospatial querying in Athena
  - Enable geospatial querying in Aurora (PostgreSQL with PostGIS extension)
  - Enable geospatial querying in Amazon ES / visualize unified map-based results in Kibana