ELASTIC CLOUD ENTERPRISE ADMINISTRATION I

Overview
This hands-on, on-demand course covers the basics of how to deploy, configure, administer, and troubleshoot Elastic Cloud Enterprise. Students will first learn about the high-level concepts and features, then dive deep into the details. This course has a significant hands-on aspect, as students will have ample opportunities to put these concepts into practice on their own, live environments. After completion of this course, the student should feel comfortable with deploying and administering their own environment. The student will be familiar with the bootstrapping of multiple instances, as well as the elements of the Cloud UI, which enables easy configuration and scaling of the ECE architecture, as well as the ECE APIs.

This course is based on Elastic Stack 5.x.

Audience
This course is designed for System Administrators, DevOps, and Systems Architects who need to install, configure, monitor and troubleshoot ECE architectures of all sizes.

Duration
This course should be possible to complete in 4-6 hours, depending on student speed and skill level.

Language
English

Pre-requisites
• This course uses AWS for the labs. Experience with EC2 is recommended.
• Some knowledge of Elasticsearch is expected. The student should be familiar with Elasticsearch concepts such as: clusters, nodes, indices, shards, allocation awareness.
• Students should be familiar with running commands from a command line or terminal, in multiple terminal windows
• Students should have basic proficiency with the Linux operating system, although most commands are provided in the training

Requirements
• An AWS account to complete the labs
• Participants must use their own desktop or laptop system
• Internet connection capable of streaming video
• Mac, Linux OS, or Windows 7 or later
• A modern web browser
Additional Information
All training materials are provided via the Elastic training portal at https://training.elastic.co.

Modules

Introduction
• Understanding the main use cases, features and value propositions for deploying ECE

Architecture
• A high-level walkthrough of the major components of ECE

Prerequisites
• System Requirements; introduction to the installation process

Lab 1: Install of the First Instance
• Running the installation script to install a single host

Lab 2: Tour of the Cloud UI
• Browsing the UI; familiarizing at a high-level with functionality provided in the Admin Console interface

High Availability
• Building on Elasticsearch's native high availability features, using ECE features and architectural considerations

Lab 3: Adding HA
• See how easy it is to deploy multi-tenant clusters in ECE, with differing distributed features; simply deploy multiple versions of Elasticsearch

ECE Features
• Learn common features of ECE like snapshotting, Stack Packs, and Monitoring

Lab 5: Monitoring
• Explore the Cloud UI tools for monitoring your deployment

Lab 6: Upgrading a Cluster
• Upgrade a 2.x version of Elasticsearch to 5.x

Security
• Overview of the built-in security features available in ECE

The REST API
• Familiarize the student with the wealth of API functionality