Working with Elasticsearch (TTDS6882)

Category: AI, Data & Analytics | **Vendor:** Trivera Tech

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Working with Elasticsearch®will explore how to use Elastic Stack and Elasticsearch efficiently to build powerful real-time data processing applications. Throughout the two-day hands-on course, you'll explore the power of this robust toolset that enables advanced distributed search, analytics, logging, and visualization of data, enabled by new features in Elastic Stack 7.0. ®You'll delve into the core functionalities of Elastic Stack, understanding the role of each component in constructing potent real-time data processing applications.®

About This Course

The Elastic Stack is a powerful combination of tools for techniques such as distributed search, analytics, logging, and visualization of data. Elastic Stack 7.0 encompasses new features and capabilities that will enable you to find unique insights into analytics using these techniques. Geared for experienced data analysts, IT professionals, and software developers who seek to augment their data processing and analytics capabilities, Working with Elasticsearch will explore how to use Elastic Stack and Elasticsearch efficiently to build powerful real-time data processing applications.

Throughout the two-day hands-on course, you'll explore the power of this robust toolset that enables advanced distributed search, analytics, logging, and visualization of data, enabled by new features in Elastic Stack 7.0. You'll delve into the core functionalities of Elastic Stack, understanding the role of each component in constructing potent real-time data processing applications. You'll gain proficiency in Elasticsearch for distributed searching and analytics, Logstash for logging, and Kibana for compelling data visualization. You'll also explore the art of crafting custom plugins using Kibana and Beats, and familiarize yourself with Elastic X-Pack, a vital extension for effective security and monitoring.

The course also covers essentials like Elasticsearch architecture, solving full-text search problems, data pipeline building, and creating interactive Kibana dashboards. Learn how to deploy Elastic Stack in production environments and explore the powerful analytics capabilities offered through Elasticsearch aggregations. The course will also touch upon securing, monitoring, and utilizing Elastic Stack's alerting and reporting capabilities. Hands-on labs, captivating demonstrations, and interactive group activities enrich your learning journey throughout the course.

For teams with specific requirements, our team is ready to tailor the course content to your unique learning objectives and goals. Upon completion, you will be well-equipped with a deep understanding of Elastic Stack's fundamental functionalities and how each component contributes to solving various data processing challenges.

Who Should Attend

This training is ideally suited for data analysts, IT professionals, and software developers who seek to augment their data processing and analytics capabilities. It will also benefit system administrators and data engineers who wish to harness Elastic Stack's functionalities for efficient system logging, monitoring, and robust data visualization. With a focus on practical application, this course is perfect for those aspiring to solve complex data challenges in real-time environments across diverse industry verticals.

Prerequisites & Entry Requirements

General Prerequisites:

To ensure a smooth learning experience and maximize the benefits of attending this course, you should have the following prerequisite skills:

-Knowledge of basic data analysis concepts, including how to work with and interpret data sets, is necessary.

-Familiarity with basic IT and computer concepts, including operating systems and networks, will facilitate understanding of course content.

-Since Elastic Stack is used for data processing and analysis, understanding how databases function, and basic SQL skills are beneficial.

-Some basic programming knowledge, particularly in a language such as Python or Java, will help in understanding and implementing certain concepts, although it's not a hard prerequisite.

-Experience with command-line interfaces (CLI) would be advantageous, as Elastic Stack often involves interactions via CLI.

-Basic Linux skills, including familiarity with command-line options such as ls, cd, cp, and su

Learning Outcomes

Upon successful completion of this course, participants will be able to:

This course combines engaging instructor-led presentations and useful demonstrations with valuable hands-on labs and engaging group activities. Throughout the course you'll explore:

-New features and updates introduced in Elastic Stack 7.0

-Fundamentals of Elastic Stack including Elasticsearch, Logstash, and Kibana

-Useful tips for using Elastic Cloud and deploying Elastic Stack in production environments

-How to install and configure an Elasticsearch architecture

-How to solve the full-text search problem with Elasticsearch

-Powerful analytics capabilities through aggregations using Elasticsearch

-How to build a data pipeline to transfer data from a variety of sources into Elasticsearch for analysis

-How to create interactive dashboards for effective storytelling with your data using Kibana

-How to secure, monitor and use Elastic Stack's alerting and reporting capabilities

Detailed Course Outline

1. Introducing Elastic Stack

· What is Elasticsearch, and why use it

· Exploring the components of the Elastic Stack

· Use cases of Elastic Stack

· Downloading and installing

2. Getting Started with Elasticsearch

· Using the Kibana Console UI

· Core concepts of Elasticsearch

· CRUD operations

· Creating indexes and taking control of mapping

· REST API overview

3. Searching - What is Relevant

· The basics of text analysis

· Searching from structured data

· Searching from the full text

· Writing compound queries

· Modeling relationships

4. Analytics with Elasticsearch

· The basics of aggregations

· Preparing data for analysis

· Metric aggregations

· Bucket aggregations

· Pipeline aggregations

· Substantial Lab and Case Study

5. Analyzing Log Data

· Log analysis challenges

· Using Logstash

· The Logstash architecture

· Overview of Logstash plugins

· Ingest node

6. Visualizing Data with Kibana

· Downloading and installing Kibana

· Preparing data

· Kibana UI

· Timelion

· Using plugins

Additional Course Details

Nexus Humans Working with Elasticsearch (TTDS6882) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Working with Elasticsearch (TTDS6882) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Working with Elasticsearch (TTDS6882)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day Working with Elasticsearch (TTDS6882) course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Working with Elasticsearch (TTDS6882) training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Working with Elasticsearch (TTDS6882)?

Yes, we provide corporate training, dedicated training, and closed classes for Working with Elasticsearch (TTDS6882). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Elastic Seacrh; Data Science

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Q: Why choose Nexus Human for Working with Elasticsearch (TTDS6882)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Working with Elasticsearch (TTDS6882) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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