

Training program:

Elasticsearch - architecture and advanced topics

Info:

Name:	Elasticsearch - architecture and advanced topics
Code:	BigDataML-elastic
Category:	BigData, Streaming and Machine Learning
Target audience:	developers architects
Duration:	3 days
Format:	30% lecture / 70 % workshop

Training program

1. Architecture

- 1.1. noSQL scalability introduction
- 1.2. Eventual consistency and CAP
- 1.3. Multi node infrastructure management
- 1.4. Network issues
- 1.5. split-brain

2. Document data modeling

- 2.1. Flat aggregates
- 2.2. Soft relations
- 2.3. Embedded documents

3. Full-text search

- 3.1. Algorithms
- 3.2. Strategies

4. Why Elasticsearch?

- 4.1. Alternatives
- 4.2. Elastic Stack

5. Using z Elasticsearch

- 5.1. Installation and configuration
- 5.2. Data modification and search
- 5.3. testing

6. Storage architecture

7. Advanced search

8. Performance tuning

9. Integrating Elasticsearch with a legacy system**10. Architecture maintenance**

10.1. Diagnosing problems

10.2. Security

10.3. Tools

10.3.1. Head

10.3.2. Kopf

10.3.3. Sense

10.3.4. Marvel

10.3.5. Curator

10.4. Monitoring