

Elasticsearch Training

Session 4

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Agenda

- Data Models
- Multi Tenancy
- Multi Lingual

Data Models

- Data is stored as JSON.
- Support for string, number, date, lat-long etc.
- This makes it schema lenient.
- Fields can be disabled, stored or analyzed.
- There are additional meta data like `_id`, `_type`, `_source` etc.
- Settings and mappings are created based on application rules and queries.

Data Models

- Document Models:
 - De-normalize the data in single document.
 - Different types for different data.
 - Nested document structure inside the same documents.
 - Parent-child documents. Both documents need to have different types. It is a 1-many relationship.

Multi Tenancy

- A 'tenant' can be at a type or index or cluster level.
- Flexibility to define various kinds of multi-tenancy model based on application rules.

Multi Lingual

- Elasticsearch natively supports various languages.
- Additional languages are supported by building custom analyzers, tokenizers and filters.

References

- Documents -
<https://www.elastic.co/guide/en/elasticsearch/guide/current/document.html>
- Data Models -
<https://www.elastic.co/guide/en/elasticsearch/guide/current/modeling-your-data.html>
- Languages -
<https://www.elastic.co/guide/en/elasticsearch/guide/current/language-intro.html>