This document outlines the software architecture of Elasticsearch. We analyzed it from six perspectives: Stakeholders, Context View, Module Organization, Information View, Performance & Scalability Perspective, and Technical Debt. We can draw various interesting conclusions from this. First, we think the different modules in the Elasticsearch codebase are well organized. Each package has a clear responsibility to extract reusable modules that provide good isolation between core functionality and other features. The Elasticsearch team also places great emphasis on performance and scalability. There is an extensive benchmarking suite that can be used in GitHub discussions when making consolidation decisions. However, there are some problems in the system. There are a lot of technical debts in the system, for example, some developers deliberately caused, some violate the SOLID principle, and some are missing instrumentation and javadoc and some test debts. In addition, there are some basic issues with building systems that fail to generate test coverage reports. The main focus of core developers is the user experience, not the developer experience.