# Software specifications

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| Chapter number | Software required (With version) | Free / Proprietary | If proprietary, can code testing be performed using a trial version | Download links to the software | Hardware specifications | OS required |
| > 2 | Elasticsearch 5.x | Open source |  | https://www.elastic.co/downloads/elasticsearch | Common laptop | https://www.elastic.co/support/matrix |
| > 2 | Kibana 5.x | Open source |  | https://www.elastic.co/downloads/kibana | Common laptop | https://www.elastic.co/support/matrix |
| > 2 | X-Pack | Proprietary | Yes | https://www.elastic.co/downloads/x-pack | Common laptop | https://www.elastic.co/support/matrix |
| 3 | Logstash | Open source |  | <https://www.elastic.co/downloads/logstash> | Common laptop | https://www.elastic.co/support/matrix |
| 5 | Metricbeat | Open source |  | <https://www.elastic.co/downloads/beats/metricbeat> | Common laptop | <https://www.elastic.co/support/matrix> |
| 7 | Nodejs | Open source |  | <https://nodejs.org/en/download/> | Common laptop | <https://nodejs.org/en/download/> |
| 7 | Gulp | Open source |  | <https://github.com/gulpjs/gulp/blob/master/docs/getting-started.md> | Common  Laptop |  |
| 8 | Prelert | Proprietary |  | <http://www.prelert.com/reg/behavioral-analytics-elastic-trial.html> | Common  Laptop |  |

# Detailed installation steps (software-wise)

The steps should be listed in a way that it prepares the system environment to be able to test the codes of the book.

1. Elasticsearch 5.x
   1. Download & unzip
   2. From a terminal in the installation directory run: bin/elasticsearch (bin/elasticsearch.bat on windows)
   3. More here: https://www.elastic.co/guide/en/elasticsearch/reference/current/getting-started.html
2. Kibana 5.x
   1. Download & unzip on the same machine than Elasticsearch
   2. From a terminal in the installation directory run: bin/kibana (bin/kibana.bat on windows)
   3. More here: <https://www.elastic.co/guide/en/kibana/current/getting-started.html>
3. X-Pack 5.x:
   1. Stop Elasticsearch & Kibana
   2. In Elasticsearch installation directory run: bin/elasticsearch-plugin install x-pack
   3. Accept everything
   4. In Kibana installation directory run: bin/kibana-plugin install x-pack
   5. Start Elasticsearch
   6. Start Kibana
4. Logstash 5.x
   1. Download & unzip on the same machine than Elasticsearch
   2. Run Logstash as explained in the related chapter
   3. More here: <https://www.elastic.co/guide/en/logstash/current/getting-started-with-logstash.html>
5. Metricbeat 5.x
   1. Download & unzip on the same machine than Elasticsearch
   2. Run Metricbeat as explained in the related chapter
   3. More here: <https://www.elastic.co/guide/en/beats/metricbeat/current/metricbeat-getting-started.html>
6. Nodejs
   1. Download
   2. Run the installer
7. Gulp
   1. With Nodejs installed, run: npm install --global gulp-cli