

Chapter number	Software required (With version)	Free/Proprietary	If proprietary, can code testing be performed using a trial version	If proprietary, then cost of the software	Download links to the software	Hardware specifications	OS required
4	Go 1.13	Free	-	-	https://golang.org/dl	System with at least 4GB RAM	Linux/Windows/OSX
6	Go 1.13 CockroachDB 19.1.2 Elasticsearch 7.2.0	Free	-	-	https://golang.org/dl https://www.cockroachlabs.com/get-cockroachdb https://www.elastic.co/downloads/elasticsearch	System with at least 8GB RAM	Linux/Windows/OSX
7	Go 1.13	Free	-	-	https://golang.org/dl	System with at least 4GB RAM	Linux/Windows/OSX
8	Go 1.13	Free	-	-	https://golang.org/dl	System with at least 4GB RAM	Linux/Windows/OSX
9	Go 1.13	Free	-	-	https://golang.org/dl	System with at least 4GB RAM	Linux/Windows/OSX
10	Go 1.13 Docker 19.03.5 VirtualBox 6.0 minikube 1.4.0 kubectl 1.12 helm 2.14.3	Free	-	-	https://golang.org/dl https://www.docker.com/get-started https://www.virtualbox.org/wiki/Downloads https://minikube.sigs.k8s.io/docs/start https://kubernetes.io/docs/tasks/tools/install-kubectl https://v2.helm.sh	System with at least 16GB RAM	Linux/Windows/OSX

11	Go 1.13 Docker 19.03.5 VirtualBox 6.0 minikube 1.4.0 kubect1 1.12 helm 2.14.3	Free	-	-	https://golang.org/dl https://www.docker.com/get-started https://www.virtualbox.org/wiki/Downloads https://minikube.sigs.k8s.io/docs/start https://kubernetes.io/docs/tasks/tools/install-kubect1 https://v2.helm.sh	System with at least 16GB RAM	Linux/Windows/OSX
12	Go 1.13 Docker 19.03.5 VirtualBox 6.0 minikube 1.4.0 kubect1 1.12 helm 2.14.3	Free	-	-	https://golang.org/dl https://www.docker.com/get-started https://www.virtualbox.org/wiki/Downloads https://minikube.sigs.k8s.io/docs/start https://kubernetes.io/docs/tasks/tools/install-kubect1 https://v2.helm.sh	System with at least 16GB RAM	Linux/Windows/OSX
13	Go 1.13 Docker 19.03.5	Free	-	-	https://golang.org/dl	System with at least 16GB RAM	Linux/Windows/OSX

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. Go:
 1. Download and execute the appropriate installer for your operating system.
2. CockroachDB
 1. Download and unpack the archive containing the CockroachDB build for your operating system.

2. Start a local CockroachDB instance by running the following command:

```
1. cockroach start --insecure --advertise-addr
   127.0.0.1:26257
```

2. Elasticsearch

1. Download and unpack the archive containing the Elasticsearch build for your operating system.
2. Start a local Elasticsearch instance by running the following command:

```
1. bin/elasticsearch
```

2. Docker

1. Download and execute the appropriate installer for your operating system.

3. VirtualBox

1. Download and execute the appropriate installer for your operating system.

4. Minikube

1. Download and execute the appropriate installer for your operating system.

5. Kubectl

1. Follow the OS-specific instructions on the download page to download the *kubectl* binary and install it in your PATH.

6. Helm

1. Follow the OS-specific instructions on the download page to download the *helm* binary and install it in your PATH.