

# SOFTWARE/HARDWARE LIST:-

Chapter Name	Chapter number	Software required (With version)	Hardware specifications	OS required
Data Acquisition of Batch Data with Apache Sqoop	5	<ul style="list-style-type: none"> <li>• Oracle JDK 1.8.x</li> <li>• Hadoop Distributed File System 2.7.3</li> <li>• Hue 3.11</li> <li>• Sqoop 1.4.6</li> <li>• Postgresql 9.4.x (Latest available from YUM repository)</li> <li>• HBase 0.98.24</li> <li>• Sqoop2 1.99.5</li> </ul>	64-bit microprocessor architecture, 1+ GHz CPU, 8 cores, 8 GB RAM, 100 GB hard disk space available	CentOS 7, 64-bit
Data Acquisition of Stream Data with Apache Flume	6	<ul style="list-style-type: none"> <li>• Oracle JDK 1.8.x</li> <li>• Apache Flume 1.7.0</li> <li>• Kafka 2.11-0.10.1.1</li> <li>• Postgresql 9.4.x (Latest available from YUM repository)</li> <li>• Flume-ng-sql-source 1.4.2</li> <li>• Maven 3.x (Latest available from YUM repository)</li> </ul>	64-bit microprocessor architecture, 1+ GHz CPU, 8 cores, 8 GB RAM, 100 GB hard disk space available	CentOS 7, 64-bit
Messaging Layer with Apache Kafka	7	<ul style="list-style-type: none"> <li>• Oracle JDK 1.8.x</li> <li>• Kafka 2.11-0.10.1.1</li> <li>• Java IDE - Eclipse Neon or IntelliJIdea 2016.2 and above</li> <li>• Kafka Connect 3.2.0-2.11 (OSS)</li> <li>• Maven 3.x (Latest available from YUM repository)</li> </ul>	64-bit microprocessor architecture, 1+ GHz CPU, 8 cores, 8 GB RAM, 100 GB hard disk space available	CentOS 7, 64-bit
Data Processing using Apache Flink	8	<ul style="list-style-type: none"> <li>• Oracle JDK 1.8.x</li> <li>• Apache Flink 1.2.0</li> <li>• Postgresql 9.4.x (Latest available from YUM repository)</li> <li>• GIT (Latest available from YUM repository)</li> <li>• Java IDE - Eclipse Neon or IntelliJIdea 2016.2 and above</li> <li>• Kafka 2.11-0.10.1.1</li> <li>• Hadoop Distributed File System 2.7.3</li> <li>• Hue 3.11</li> </ul>	64-bit microprocessor architecture, 1+ GHz CPU, 8 cores, 8 GB RAM, 100 GB hard disk space available	CentOS 7, 64-bit
Data Store using Apache Hadoop	9	<ul style="list-style-type: none"> <li>• Oracle JDK 1.8.x</li> <li>• Hadoop Distributed File System 2.7.3</li> <li>• Postgresql 9.4.x (Latest available from YUM repository)</li> <li>• Sqoop 1.4.6</li> <li>• Java IDE - Eclipse Neon or IntelliJIdea 2016.2 and above</li> <li>• Apache HIVE 2.1.1</li> <li>• Hue 3.11</li> </ul>	64-bit microprocessor architecture, 1+ GHz CPU, 8 cores, 8 GB RAM, 100 GB hard disk space available	CentOS 7, 64-bit

Indexed Data Store using Elasticsearch	10	<ul style="list-style-type: none"> <li>● Oracle JDK 1.8.x</li> <li>● Hadoop Distributed File System 2.7.3</li> <li>● Apache Flume 1.7.0</li> <li>● Java IDE - Eclipse Neon or IntelliJIdea 2016.2 and above</li> <li>● Hue 3.11</li> <li>● Kafka 2.11-0.10.1.1</li> <li>● Apache HIVE 2.1.1</li> <li>● Elasticsearch 5.3.0</li> <li>● Elasticsearch 2.4.1</li> <li>● Apache Flink 1.2.0</li> </ul>	64-bit microprocessor architecture, 1+ GHz CPU, 8 cores, 8 GB RAM, 100 GB hard disk space available	CentOS 7, 64-bit
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