Chapter number	Software required (With version)	Hardware specifications	OS required
1	NA		
2	Spring Tool Suite , Maven, Gradle , Apache Tomcat , SAML Servers	Processor 1GHz or faster,RAM 4GB (64bit), Minimum 20GB (64bit)	Windows 8/ Unix
3	STS , ApacheDS	Processor 1GHz or faster,RAM 4GB (64bit), Minimum 20GB (64bit)	Windows 8/ Unix
4	STS, AOP Framework,Tomcat	Processor 1GHz or faster,RAM 4GB (64bit), Minimum 20GB (64bit)	Windows 8/ Unix
5	STS , ACL Framework	Processor 1GHz or faster,RAM 4GB (64bit), Minimum 20GB (64bit)	Windows 8/ Unix
6	STS, JSF2.0	Processor 1GHz or faster,RAM 4GB (64bit), Minimum 20GB (64bit)	Windows 8/ Unix
7	STS, Wicket	Processor 1GHz or faster,RAM 4GB (64bit), Minimum 20GB (64bit)	Windows 8/ Unix
8	STS , SOAP	Processor 1GHz or faster,RAM 4GB (64bit), Minimum 20GB (64bit)	Windows 8/ Unix
9	STS , RestFul WS	Processor 1GHz or faster,RAM 4GB (64bit), Minimum 20GB (64bit)	Windows 8/ Unix
10	STS , JAAS	Processor 1GHz or faster,RAM 4GB (64bit), Minimum 20GB (64bit)	Windows 8/ Unix