

| No. | Component Name                   | Version          | License                                                             | Source Code                                                                                                                                                                                             |
|-----|----------------------------------|------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | akka-actor-typed_2.13            | 2.6.19           | Apache License                                                      | <a href="https://github.com/akka/akka/blob/v2.6.19/LICENSE">https://github.com/akka/akka/blob/v2.6.19/LICENSE</a>                                                                                       |
| 2   | akka-cluster-typed_2.13          | 2.6.19           | Apache License                                                      | <a href="https://github.com/akka/akka/blob/v2.6.19/LICENSE">https://github.com/akka/akka/blob/v2.6.19/LICENSE</a>                                                                                       |
| 3   | akka-quartz-scheduler_2.13       | 1.9.2-akka-2.6.x | Apache License                                                      | <a href="https://github.com/enragedginger/akka-quartz-scheduler/blob/release-1.9.2-akka-2.6.x/LICENSE">https://github.com/enragedginger/akka-quartz-scheduler/blob/release-1.9.2-akka-2.6.x/LICENSE</a> |
| 4   | akka-serialization-jackson_2.13  | 2.6.19           | Apache License                                                      | <a href="https://github.com/akka/akka/blob/v2.6.19/LICENSE">https://github.com/akka/akka/blob/v2.6.19/LICENSE</a>                                                                                       |
| 5   | Alpine Linux                     | 3.16             | The MIT License (MIT)                                               | <a href="https://github.com/alpinelinux/docker-alpine/blob/master/LICENSE">https://github.com/alpinelinux/docker-alpine/blob/master/LICENSE</a>                                                         |
| 6   | bcpkix-jdk15to18                 | 1.71             | The MIT License (MIT)                                               | <a href="https://github.com/bcgit/bc-java/blob/r1rv71/LICENSE.html">https://github.com/bcgit/bc-java/blob/r1rv71/LICENSE.html</a>                                                                       |
| 7   | bcprov-jdk15to18                 | 1.71             | The MIT License (MIT)                                               | <a href="https://github.com/bcgit/bc-java/blob/r1rv71/LICENSE.html">https://github.com/bcgit/bc-java/blob/r1rv71/LICENSE.html</a>                                                                       |
| 8   | bootstrap                        | 5.0.0            | ISC License                                                         | <a href="https://github.com/twbs/bootstrap/blob/v5.0.0/LICENSE">https://github.com/twbs/bootstrap/blob/v5.0.0/LICENSE</a>                                                                               |
| 9   | Cerberus                         | 1.3.4            | ISC License                                                         | <a href="https://github.com/pyeve/cerberus/blob/1.3.4/LICENSE">https://github.com/pyeve/cerberus/blob/1.3.4/LICENSE</a>                                                                                 |
| 10  | chart.js                         | 2.9.4            | The MIT License (MIT)                                               | <a href="https://github.com/chartjs/Chart.js/blob/v2.9.4/LICENSE.md">https://github.com/chartjs/Chart.js/blob/v2.9.4/LICENSE.md</a>                                                                     |
| 11  | commons-lang3                    | 3.12.0           | Apache License                                                      | <a href="https://github.com/apache/commons-lang/blob/rel/commons-lang-3.12.0/LICENSE.txt">https://github.com/apache/commons-lang/blob/rel/commons-lang-3.12.0/LICENSE.txt</a>                           |
| 12  | core-js                          | 3.6.5            | The MIT License (MIT)                                               | <a href="https://github.com/zloirock/core-js/blob/v3.6.5/LICENSE">https://github.com/zloirock/core-js/blob/v3.6.5/LICENSE</a>                                                                           |
| 13  | d3                               | 7.8.5            | ISC License                                                         | <a href="https://github.com/d3/d3/blob/v7.8.5/LICENSE">https://github.com/d3/d3/blob/v7.8.5/LICENSE</a>                                                                                                 |
| 14  | Docker                           | 20.10.16         | Apache License                                                      | <a href="https://github.com/moby/moby/blob/v20.10.16/LICENSE">https://github.com/moby/moby/blob/v20.10.16/LICENSE</a>                                                                                   |
| 15  | docker-compose                   | 2.0.1            | Apache License                                                      | <a href="https://github.com/docker/compose/blob/v2.0.1/LICENSE">https://github.com/docker/compose/blob/v2.0.1/LICENSE</a>                                                                               |
| 16  | docker-compose-wait              | 2.9.0            | Apache License                                                      | <a href="https://github.com/ufo scout/docker-compose-wait/blob/2.9.0/LICENSE">https://github.com/ufo scout/docker-compose-wait/blob/2.9.0/LICENSE</a>                                                   |
| 17  | Eclipse Mosquitto                | 2                | Eclipse Public License 2.0 and the Eclipse Distribution License 1.0 | <a href="https://github.com/eclipse/mosquitto/blob/v2.0.0/LICENSE.txt">https://github.com/eclipse/mosquitto/blob/v2.0.0/LICENSE.txt</a>                                                                 |
| 18  | encoding-japanese                | 1.0.30           | The MIT License (MIT)                                               | <a href="https://github.com/polygonplanet/encoding.js/blob/1.0.30/LICENSE">https://github.com/polygonplanet/encoding.js/blob/1.0.30/LICENSE</a>                                                         |
| 19  | Go                               | 1.22.1           | BSD 3-Clause "New" or "Revised" License                             | <a href="https://github.com/golang/go/blob/go1.22.1/LICENSE">https://github.com/golang/go/blob/go1.22.1/LICENSE</a>                                                                                     |
| 20  | jackson-dataformat-csv           | 2.11.2           | Apache License                                                      | <a href="https://github.com/FasterXML/jackson-dataformats-text/blob/2.11/README.md">https://github.com/FasterXML/jackson-dataformats-text/blob/2.11/README.md</a>                                       |
| 21  | jakarta.servlet-api              | 4.0.4            | Eclipse Public License                                              | <a href="https://github.com/jakartaee/servlet/blob/4.0.4/LICENSE.md">https://github.com/jakartaee/servlet/blob/4.0.4/LICENSE.md</a>                                                                     |
| 22  | java-jwt                         | 3.18.2           | The MIT License (MIT)                                               | <a href="https://github.com/auth0/java-jwt/blob/3.18.2/LICENSE">https://github.com/auth0/java-jwt/blob/3.18.2/LICENSE</a>                                                                               |
| 23  | java-simple-serial-connector     | 2.8.0            | GNU Lesser GPL                                                      | <a href="https://code.google.com/archive/p/java-simple-serial-connector/">https://code.google.com/archive/p/java-simple-serial-connector/</a>                                                           |
| 24  | Jinja2                           | 3.0.3            | BSD-3-Clause License                                                | <a href="https://github.com/pallets/jinja/blob/3.0.3/docs/license.rst">https://github.com/pallets/jinja/blob/3.0.3/docs/license.rst</a>                                                                 |
| 25  | jwt-rsa                          | 0.20.0           | The MIT License (MIT)                                               | <a href="https://github.com/auth0/jwks-rsa-java/blob/0.20.0/LICENSE">https://github.com/auth0/jwks-rsa-java/blob/0.20.0/LICENSE</a>                                                                     |
| 26  | MarkupSafe                       | 2.0.0            | BSD-3-Clause License                                                | <a href="https://github.com/pallets/markupsafe/blob/2.0.0/docs/license.rst">https://github.com/pallets/markupsafe/blob/2.0.0/docs/license.rst</a>                                                       |
| 27  | mongo                            | 4.4.14           | Server Side Public License                                          | <a href="https://github.com/mongodb/mongo/tree/r4.4.14?tab=License-1-ov-file">https://github.com/mongodb/mongo/tree/r4.4.14?tab=License-1-ov-file</a>                                                   |
| 28  | numpy                            | 1.22.3           | Python Software Foundation License                                  | <a href="https://github.com/numpy/numpy/blob/v1.22.3/LICENSE.txt">https://github.com/numpy/numpy/blob/v1.22.3/LICENSE.txt</a>                                                                           |
| 29  | Eclipse Paho Java MQTTv3 Client  | 1.2.5            | Eclipse Public License                                              | <a href="https://github.com/eclipse/paho.mqtt.java/blob/v1.2.5/LICENSE">https://github.com/eclipse/paho.mqtt.java/blob/v1.2.5/LICENSE</a>                                                               |
| 30  | pandas                           | 1.4.1            | BSD-3-Clause License                                                | <a href="https://github.com/pandas-dev/pandas/blob/v1.4.1/LICENSE">https://github.com/pandas-dev/pandas/blob/v1.4.1/LICENSE</a>                                                                         |
| 31  | particles.js                     | 2.0.0            | The MIT License (MIT)                                               | <a href="https://github.com/VincentGarreau/particles.js/blob/2.0.0/LICENSE.md">https://github.com/VincentGarreau/particles.js/blob/2.0.0/LICENSE.md</a>                                                 |
| 32  | postgres                         | 13.5             | The PostgreSQL Licence                                              | <a href="https://github.com/postgres/postgres/tree/REL_13_5?tab=License-1-ov-file">https://github.com/postgres/postgres/tree/REL_13_5?tab=License-1-ov-file</a>                                         |
| 33  | postgresql                       | 42.2.16          | BSD 2-Clause "Simplified" License                                   | <a href="https://github.com/pgjdbc/pgjdbc/blob/REL42.2.16/LICENSE">https://github.com/pgjdbc/pgjdbc/blob/REL42.2.16/LICENSE</a>                                                                         |
| 34  | requests                         | 2.28.2           | Apache License                                                      | <a href="https://github.com/psf/requests/blob/v2.28.2/LICENSE">https://github.com/psf/requests/blob/v2.28.2/LICENSE</a>                                                                                 |
| 35  | scikit-learn                     | 1.0.2            | BSD-3-Clause License                                                | <a href="https://github.com/scikit-learn/scikit-learn/blob/1.0.2/COPYING">https://github.com/scikit-learn/scikit-learn/blob/1.0.2/COPYING</a>                                                           |
| 36  | skits                            | 0.1.2            | The MIT License (MIT)                                               | <a href="https://github.com/EthanRosenthal/skits/blob/master/LICENSE">https://github.com/EthanRosenthal/skits/blob/master/LICENSE</a>                                                                   |
| 37  | spring-boot-starter              | 2.6.6            | Apache License                                                      | <a href="https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt">https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt</a>                                             |
| 38  | spring-boot-starter-aop          | 2.6.6            | Apache License                                                      | <a href="https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt">https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt</a>                                             |
| 39  | spring-boot-starter-data-mongodb | 2.6.6            | Apache License                                                      | <a href="https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt">https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt</a>                                             |
| 40  | spring-boot-starter-jdbc         | 2.6.6            | Apache License                                                      | <a href="https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt">https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt</a>                                             |
| 41  | spring-boot-starter-jetty        | 2.6.6            | Apache License                                                      | <a href="https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt">https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt</a>                                             |
| 42  | spring-boot-starter-jooq         | 2.6.6            | Apache License                                                      | <a href="https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt">https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt</a>                                             |
| 43  | spring-boot-starter-json         | 2.6.6            | Apache License                                                      | <a href="https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt">https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt</a>                                             |
| 44  | spring-boot-starter-log4j2       | 2.6.6            | Apache License                                                      | <a href="https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt">https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt</a>                                             |
| 45  | spring-boot-starter-parent       | 2.6.6            | Apache License                                                      | <a href="https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt">https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt</a>                                             |

|    |                                |               |                       |                                                                                                                                                                                                       |
|----|--------------------------------|---------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 46 | spring-boot-starter-test       | 2.6.6         | Apache License        | <a href="https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt">https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt</a>                                           |
| 47 | spring-boot-starter-validation | 2.6.6         | Apache License        | <a href="https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt">https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt</a>                                           |
| 48 | spring-boot-starter-web        | 2.6.6         | Apache License        | <a href="https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt">https://github.com/spring-projects/spring-boot/blob/v2.6.6/LICENSE.txt</a>                                           |
| 49 | spring-security-crypto         | 5.3.4.RELEASE | Apache License        | <a href="https://github.com/spring-projects/spring-security/tree/5.3.4.RELEASE?tab=License-1-ov-file">https://github.com/spring-projects/spring-security/tree/5.3.4.RELEASE?tab=License-1-ov-file</a> |
| 50 | vue                            | 3.2.36        | The MIT License (MIT) | <a href="https://github.com/vuejs/core/blob/v3.2.36/LICENSE">https://github.com/vuejs/core/blob/v3.2.36/LICENSE</a>                                                                                   |
| 51 | vue-i18n                       | 9.2.2         | The MIT License (MIT) | <a href="https://github.com/intlify/vue-i18n/blob/v9.2.2/LICENSE">https://github.com/intlify/vue-i18n/blob/v9.2.2/LICENSE</a>                                                                         |
| 52 | vuepic/vue-datepicker          | 3.2.2         | The MIT License (MIT) | <a href="https://github.com/Vuepic/vue-datepicker/blob/v3.2.2/LICENSE">https://github.com/Vuepic/vue-datepicker/blob/v3.2.2/LICENSE</a>                                                               |
| 53 | vue-router                     | 4.0.5         | The MIT License (MIT) | <a href="https://github.com/vuejs/router/blob/v4.0.5/LICENSE">https://github.com/vuejs/router/blob/v4.0.5/LICENSE</a>                                                                                 |
| 54 | vuex                           | 4.0.0         | The MIT License (MIT) | <a href="https://github.com/vuejs/vuex/blob/v4.0.0/LICENSE">https://github.com/vuejs/vuex/blob/v4.0.0/LICENSE</a>                                                                                     |
| 55 | vuex-persistedstate            | 4.0.0         | The MIT License (MIT) | <a href="https://github.com/robinvdleuten/vuex-persistedstate/blob/v4.0.0/LICENSE">https://github.com/robinvdleuten/vuex-persistedstate/blob/v4.0.0/LICENSE</a>                                       |