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1 Diskussion: Dev-Sec-Ops

1.1 Warum Dev-Sec-Ops

1.2 Für wen ist Dev-Sec-Ops?

2 Der „ideale“ Dev-Sec-Ops Prozess

2.1 Welche Werkzeuge kommen zum Einsatz?

2.2 Wie ordnet man seine Pipeline am besten an?

3 Dev-Sec-Ops Werkzeug: License Checker

3.1 Auswahl des geeignetsten Werkzeugs

3.2 Inbetriebnahme

4 Literaturverzeichnis

- [1] D. Glass, *NPM License Checker*, <https://www.npmjs.com/package/license-checker> (besucht am 12.09.2021).
- [2] D. Bauernfeind, *Composer License Checker*, <https://github.com/dominikb/composer-license-checker> (besucht am 12.09.2021).

5 Anhänge

.gitlab-ci.yml

```
1  check-npm-licenses:
2    image: node:16
3    script:
4      - /bin/bash ./license-checker/npm-licenses.sh
5        ↪ "MIT;ISC;Apache-2.0;0BSD;BSD-2-Clause;BSD-3-Clause;CC0-1.
6        ↪ 0;CC-BY-4.0;Unlicense"
7    artifacts:
8      when: always
9      paths:
10        - npm_license_summary.txt
11        - npm_license_detailed.json
12      expire_in: 3 days
13      reports:
14        junit:
15          - npm_licenses.xml
16
17  check-composer-licenses:
18    image: composer:2.1.6
19    script:
20      - /bin/bash ./license-checker/composer-licenses.sh
21        ↪ "MIT;LGPL-2.1;BSD-3-Clause;LGPL-3.0;Apache-2.0"
22    artifacts:
23      when: always
24      paths:
25        - composer_license_summary.txt
26        - composer_license_detailed.txt
27      expire_in: 3 days
28      reports:
29        junit:
30          - composer_licenses.xml
```

license-checker/npm-licenses.sh

```

1  # install the npm dependency
2  npm install
3  npm install -g license-checker
4  npm install -g yui-lint
5
6  # list the summary of licenses used
7  license-checker --summary --out "npm_license_summary.txt"
8  # generate a overview of licenses
9  license-checker --json --out "npm_license_detailed.json"
10
11
12  fails=0
13  # Generate Output.xml
14  echo '<?xml version="1.0" encoding="UTF-8"?><testsuites><testsuite
    ↪   id="NPM-CUSTOM-LICENSE-CHECKER">' > npm_licenses.xml
15  echo '<testcase name="NPM check allowed Licenses">' >>
    ↪   npm_licenses.xml
16
17  # execute test and capture error stream in variable
18  ERROR=$(license-checker --onlyAllow "$1" 2>&1 >/dev/null)
19
20  if [ $? != 0 ];
21  then
22      let "fails++"
23      echo '<failure type="FAILURE">' >> npm_licenses.xml
24      echo $ERROR >> npm_licenses.xml
25      echo '</failure>' >> npm_licenses.xml
26  else
27      echo '<passed type="PASSED"></passed>' >> npm_licenses.xml
28  fi
29
30  echo '</testcase>' >> npm_licenses.xml
31  echo '</testsuite></testsuites>' >> npm_licenses.xml
32
33  # 0 if all succeeded, larger 0 otherwise
34  exit $fails

```

license-checker/composer-licenses.sh

```

1  # install the composer dependency
2  composer require dominikb/composer-license-checker
3
4  # list the summary of licenses used
5  ./vendor/bin/composer-license-checker report >
   ↪  "composer_license_summary.txt"
6
7  # generate a overview of licenses
8  # as there's no real option for this, run a check that lists
   ↪  everything and remove the Error-messages
9  ./vendor/bin/composer-license-checker check --allowlist
   ↪  NAMEOFNOLICENSE > "composer_license_detailed.txt"
10 sed -i '/\[ERROR\]/d' composer_license_detailed.txt
11
12 # format the first operand correctly to be used in the command
13 OPTIONS=""
14 IFS=';' read -ra ADDR <<< "$1"
15 for i in "${ADDR[@]}; do
16     OPTIONS="$OPTIONS --allowlist $i"
17 done
18
19
20 fails=0
21 # Generate Output.xml
22 echo '<?xml version="1.0" encoding="UTF-8"?><testsuites><testsuite
   ↪  id="COMPOSER-CUSTOM-LICENSE-CHECKER">' > composer_licenses.xml
23 echo '<testcase name="Composer check allowed Licenses">' >>
   ↪  composer_licenses.xml
24
25 # execute test and capture output stream in variable
26 OUTPUT=$(./vendor/bin/composer-license-checker check $OPTIONS)
27
28 if [ $? != 0 ];
29 then
30     let "fails++"
31     echo '<failure type="FAILURE">' >> composer_licenses.xml
32     echo $OUTPUT >> composer_licenses.xml
33     echo '</failure>' >> composer_licenses.xml
34 else

```



```
35     echo '<passed type="PASSED"></passed>' >> composer_licenses.xml
36 fi
37
38 echo '</testcase>' >> composer_licenses.xml
39 echo '</testsuite></testsuites>' >> composer_licenses.xml
40
41 # 0 if all succeeded, larger 0 otherwise
42 exit $fails
```