

## Static Analysis Tool (Tool:retire.js , Node.js)

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### Cloning Node.js Project

```
admin@DESKTOP-BJTREA5 MINGW64 /e/Udemy - web_cource/websites/SE_projects
$ git clone https://github.com/levelopers/Ecommerce-Nodejs.git
Cloning into 'Ecommerce-Nodejs'...
remote: Enumerating objects: 292, done.
remote: Total 292 (delta 0), reused 0 (delta 0), pack-reused 292Receiving objects: 83% (243/292)
Receiving objects: 100% (292/292), 100.30 KiB | 482.00 KiB/s, done.
Resolving deltas: 100% (143/143), done.

admin@DESKTOP-BJTREA5 MINGW64 /e/Udemy - web_cource/websites/SE_projects
$
```

### Installing **grunt-retire**

(Scanner detecting the use of Node.js libraries with known vulnerabilities.)

```
admin@DESKTOP-BJTREA5 MINGW64 /e/Udemy - web_cource/websites/SE_projects/Ecommerce-Nodejs (master)
$ npm install grunt-retire --save-dev
[.....] / rollbackFailedOptional: verb npm-session 185a7061f7aae2c0
```

## List of error and problems detected

```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE  1: bash

admin@DESKTOP-BJTREA5 MINGW64 /e/Udemy - web_cource/websites/SE_projects/Ecommerce-Nodejs (master)
$ npm install grunt-retire --save-dev
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
npm WARN grunt-retire@1.0.9 requires a peer of grunt@>=1.0.0 but none is installed. You must install peer dependencies yourself.

+ grunt-retire@1.0.9
added 66 packages from 78 contributors, removed 298 packages and audited 554 packages in 45.953s

3 packages are looking for funding
  run `npm fund` for details

found 166 vulnerabilities (116 low, 3 moderate, 46 high, 1 critical)
  run `npm audit fix` to fix them, or `npm audit` for details

admin@DESKTOP-BJTREA5 MINGW64 /e/Udemy - web_cource/websites/SE_projects/Ecommerce-Nodejs (master)
$
```

```
admin@DESKTOP-BJTREA5 MINGW64 /e/Udemy - web_cource/websites/SE_projects/Ecommerce-Nodejs (master)
$ npm audit fix
[ ] .....] \ fetchMetadata: sill resolveWithNewModule mongodb@3.6.5 checking installable status
```

## Fixed 157 vulnerabilities

```
admin@DESKTOP-BJTREA5 MINGW64 /e/Udemy - web_cource/websites/SE_projects/Ecommerce-Nodejs (master)
$ npm audit fix
npm WARN grunt-retire@1.0.9 requires a peer of grunt@>=1.0.0 but none is installed. You must install peer dependencies yourself.

+ connect-mongo@3.2.0
+ mongoose@5.12.3
added 13 packages from 82 contributors, removed 15 packages, updated 19 packages and moved 1 package in 39.078s

5 packages are looking for funding
  run `npm fund` for details

fixed 157 of 166 vulnerabilities in 554 scanned packages
  5 vulnerabilities required manual review and could not be updated
  1 package update for 4 vulnerabilities involved breaking changes
  (use `npm audit fix --force` to install breaking changes; or refer to `npm audit` for steps to fix these manually)

admin@DESKTOP-BJTREA5 MINGW64 /e/Udemy - web_cource/websites/SE_projects/Ecommerce-Nodejs (master)
$
```

Only 8 vulnerabilities remain

```
Dependency of  jade
Path          jade > constantinople
More info     https://npmjs.com/advisories/568

Low         Regular Expression Denial of Service
Package      clean-css
Patched in   >=4.1.11
Dependency of jade
Path         jade > clean-css
More info    https://npmjs.com/advisories/785

found 8 vulnerabilities (7 low, 1 critical) in 553 scanned packages
4 vulnerabilities require semver-major dependency updates.
4 vulnerabilities require manual review. See the full report for details.

admin@DESKTOP-BJTREA5 MINGW64 /e/Udemy - web_cource/websites/SE_projects/Ecommerce-Nodejs (master)
$
```