BASIC NPM COMMAND TO MANAGE PROJECT

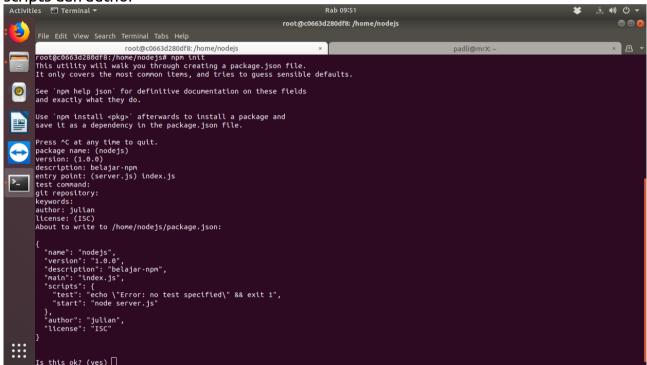
note:

Salah satu *tool* yang akan sering digunakan dalam Nodejs adalah NPM *(Node Package Manager)*. NPM sudah otomatis terinstal saat kita install node.js

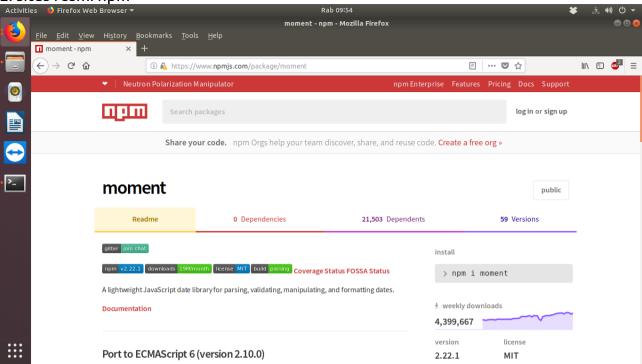
NPM dapat kita gunakan untuk:

- 1. Membuat Project Baru;
- 2. Menginstal modul atau library;
- 3. Menjalankan skrip command line.

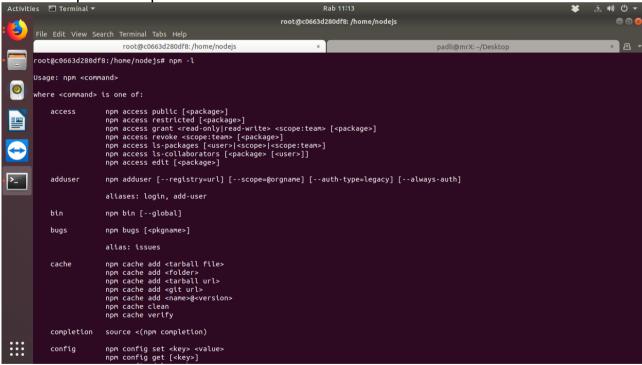
1. npm init digunakan untuk membuat file package.json yang beri deskripsi proyek, scripts dan author



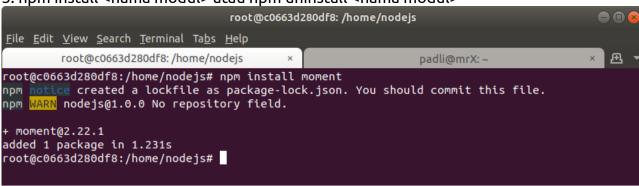
2. situs resmi npm



list daftar perintah npm



3. npm install <nama modul> atau npm uninstall <nama modul>



paket yg kita install lewat npm akan otomatis disertakan pada file package.json pada bagian dependencies atau devDependencies serta akan membuat buat file packagelock.json dan folder node modules

```
root@c0663d280df8: /home/nodejs
File Edit View Search Terminal Tabs Help
         root@c0663d280df8: /home/nodejs
                                                 ×
                                                                        padli@mrX: ~
                                                                                                        Æ
root@c0663d280df8:/home/nodejs# ls
node_modules package-lock.json package.json
root@c0663d280df8:/home/nodejs# more package.json
  "name": "nodejs",
  "version": "1.0.0"
  "description": "belajar-npm",
  "main": "index.js",
  "scripts": {
   "test": "echo \"Error: no test specified\" && exit 1",
   "start": "node server.js"
 },
"author": "julian",
"license": "ISC",
  "dependencies": {
     "moment": "^2.22.1"
root@c0663d280df8:/home/nodejs#
```

Informasi project berisi nama, versi, dan deskripsi. Lalu di bagian script, berisi skrip-skrip bash atau command line untuk dieksekusi dengan NPM.

Selain properti-properti di atas, masih ada lagi properti lain:

- depedencies berisi keterangan modul atau library yang dibutuhkan aplikasi;
- devDependencies berisi keterangan modul atau library yang dibutuhkan untuk pengembangan aplikasi.

```
root@c0663d280df8: /home/nodejs
File Edit View Search Terminal Tabs Help
              root@c0663d280df8: /home/nodeis
                                                                                   padli@mrX: ~
root@c0663d280df8:/home/nodejs# more package.json
 "name": "nodejs"
  "version": "1.0.0"
 "description": "belajar-npm",
 "main": "index.js",
 "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
   "start": "node server.js"
 "author": "julian",
"license": "ISC",
  dependencies": {
    "moment": "^2.22.1"
 },
"devDependencies": {
    "gulp": "^3.9.1"
oot@c0663d280df8:/home/nodejs#
```

```
root@c0663d280df8:/home/nodejs

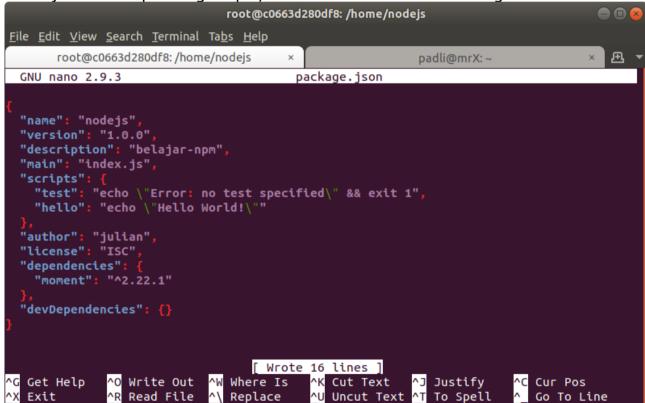
File Edit View Search Ierminal Tabs Help

root@c0663d280df8:/home/nodejs# npm uninstall gulp --save-dev
npm MARN nodejs@1.0.0 No repository field.

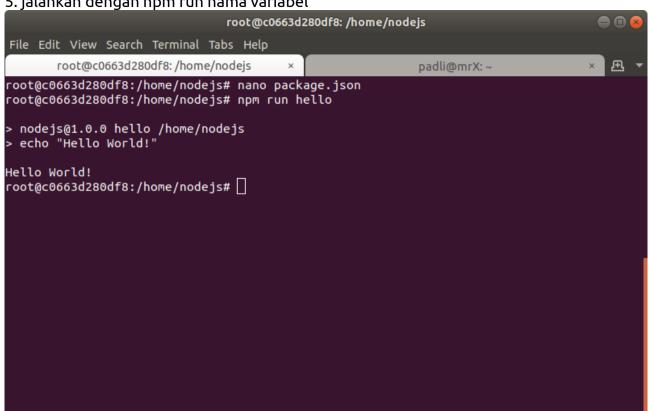
removed 255 packages in 1.0555
root@c0663d280df8:/home/nodejs# more package.json

{
    "name": "nodejs",
    "version": "1.0.0",
    "description": "belajar-npm",
    "main": "index.js",
    "scripts": {
        "test": "echo \"Error: no test specified\" && exit 1",
        "start": "node server.js"
    },
    "author": "julian",
    "license:" "ISC",
    "dependencies": {
        "monent": "^2.22.1"
    },
    "devDependencies": {}
}
root@c0663d280df8:/home/nodejs# ■
```

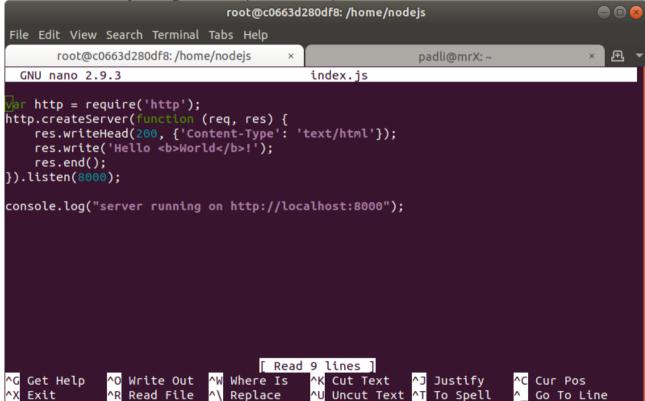
4. menjalankan scripts dengan npm, tambahkan var hello berisi string hello world!



5. jalankan dengan npm run nama variabel



6. buat file index.js dengan listen port 8000 tipe data HTML



7. pada file package.json arahkan server ke index.js

```
root@c0663d280df8: /home/nodejs
                                                                                            File Edit View Search Terminal Tabs Help
        root@c0663d280df8: /home/nodejs
                                                                padli@mrX: ~
  GNU nano 2.9.3
                                             package.json
                                                                                       Modified
  "name": "nodejs"
  "version": "1.0.0"
  "description": "belajar-npm",
  "main": "index.js",
  "scripts":
    "test": "echo \"Error: no test specified\" && exit 1", "hello": "echo \"Hello World!\"",
    "server": "node index.js"
  "author": "julian",
"license": "ISC",
  "dependencies":
    "moment": "^2.22.1"
  "devDependencies": {}
                               ^W Where Is
                                               ^K Cut Text
                                                               ^J Justify
                ^O Write Out
                                                                               ^C Cur Pos
^G Get Help
                                               ^U Uncut Text ^T To Spell
^X Exit
                ^R Read File
                                ^\ Replace
                                                                                  Go To Line
```

8. jalankan server lewat npm, ctrl+c untuk berhenti

```
root@c0663d280df8: /home/nodejs

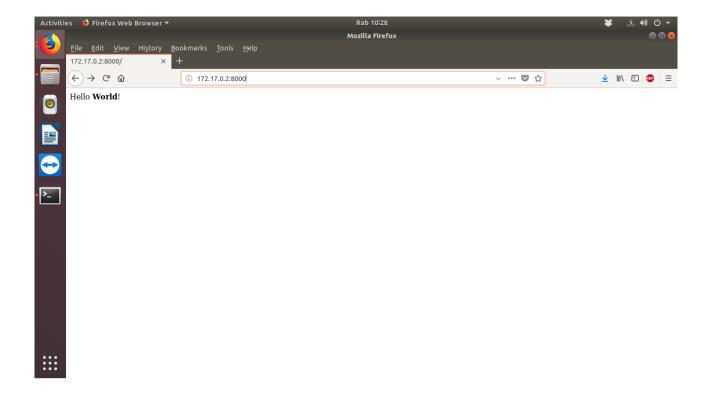
File Edit View Search Terminal Tabs Help
root@c0663d280df8: /home/nodejs × padli@mrX: ~ × 
root@c0663d280df8: /home/nodejs# npm run server

> nodejs@1.0.0 server /home/nodejs
> node index.js

server running on http://localhost:8000
^Croot@c0663d280df8: /home/nodejs#
```

9. tes akses

```
padli@mrX: ~/Desktop
File Edit View Search Terminal Tabs Help
      root@c0663d280df8: /home/nodejs
                                                   padli@mrX: ~/Desktop
                                                                                 Æ
padli@mrX:~/Desktop$ curl http://172.17.0.2:8000
Hello <b>World</b>!padli@mrX:~/Desktop$
padli@mrX:~/Desktop$ docker exec c0663d280df8 curl http://localhost:8000
 % Total
           % Received % Xferd Average Speed
                                              Time
                                                       Time
                                                               Time Current
                               Dload Upload
                                               Total
                                                                Left Speed
                                                       Spent
100
                 19
                                4750
                       0
                            0
                                          0 --:--:--
Hello <b>World</b>!padli@mrX:~/Desktop$
padli@mrX:~/Desktop$
```



dok 09/05/2018 padliyulian@ymail.com