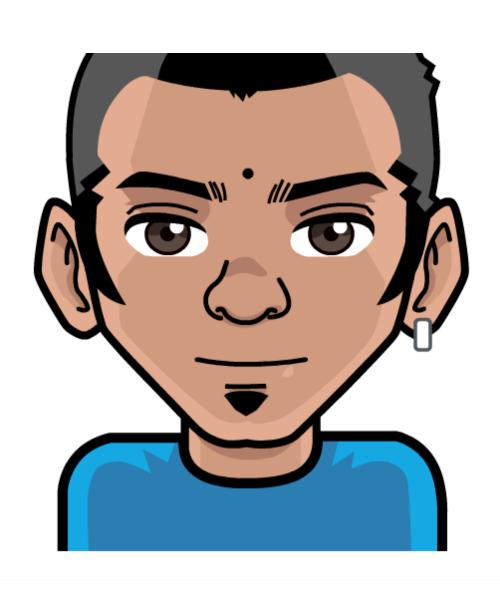
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LEVERAGING THE ANGULAR CLI

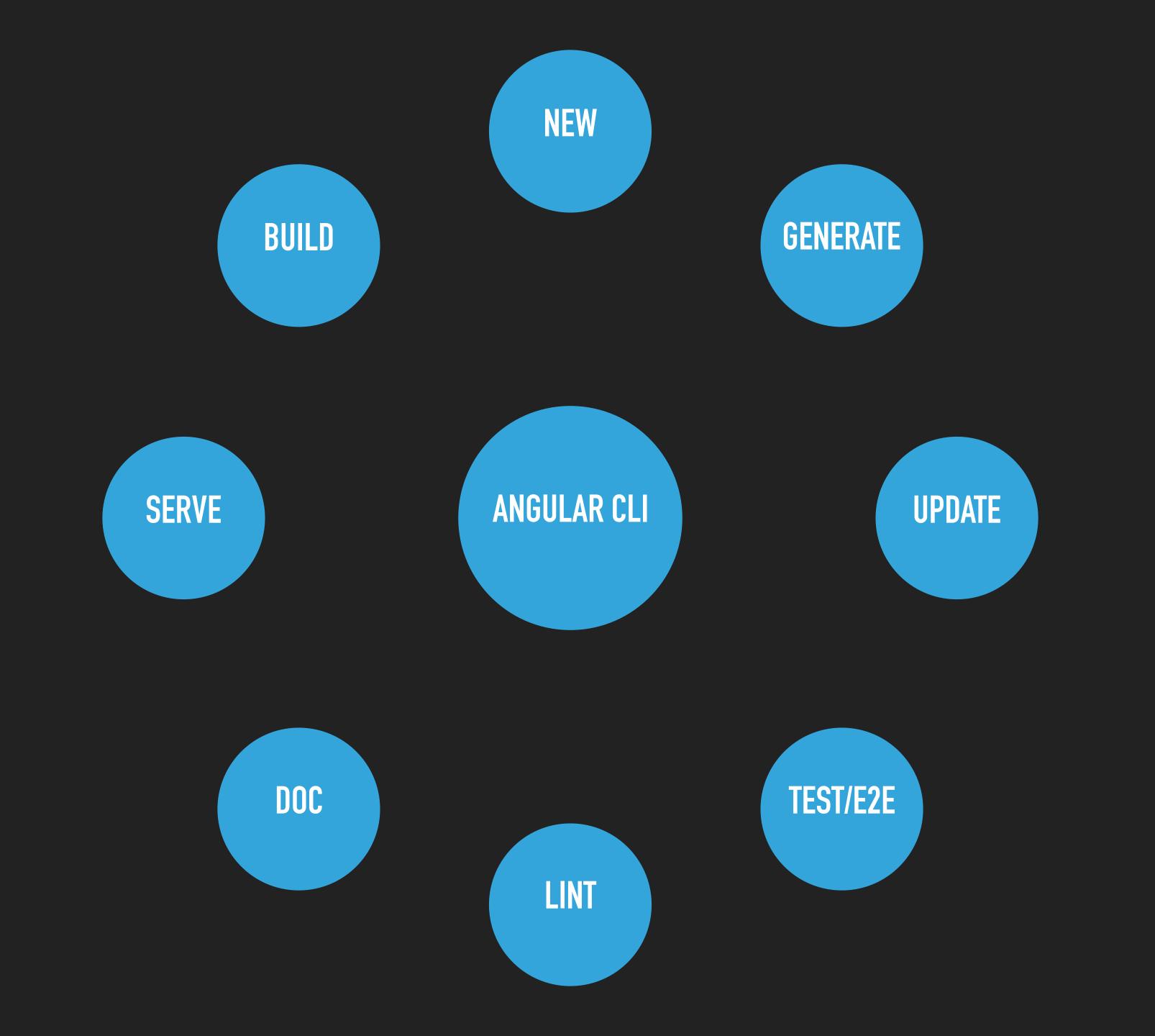


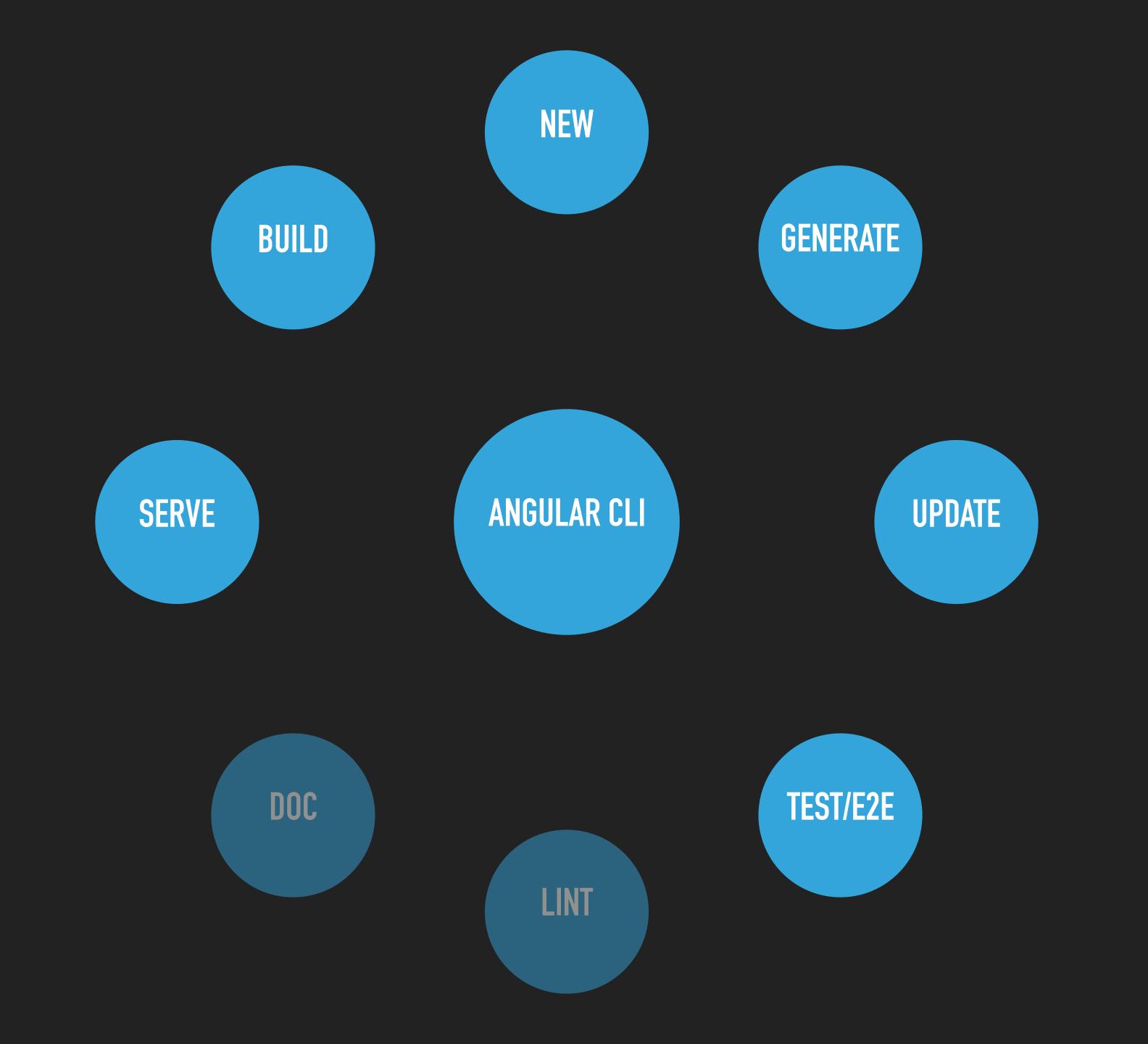
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CTO - INTEGRALLIS SOFTWARE

ANGULAR CLI

BUILD TOOLING







TSLINT

ANGULAR CLI

TSCONFIG



SETTINGS

ng set --global packageManager=yarn

ng set --global defaults.styleExt=scss

```
$ cat .angular-cli.json
{
   "defaults": {
        "styleExt": "scss"
   },
   "packageManager": "yarn"
}
```

NG NEW

NEW

- Generates a new project scaffold
- Provides a .angular-cli.json to configure your project

```
"$schema": "./node_modules/@angular/cli/lib/config/schema.json",
"project": {
 "name": "some-project"
"apps": [
   "root": "src",
"defaults": {
  "styleExt": "scss",
  "component": {}
```

```
"$schema": "./node_modules/@angular/cli/lib/config/schema.json",
"project": {
 "name": "some-project"
"apps":
    "root": "src",
"defaults": {
  "styleExt": "scss",
  "component": {}
```

NEW - MULTIPLE APPS

- Can support multiple angular applications with one project
- Each app can have a "name"
 - ▶ Use ng serve --app <index> or ng serve --app <name>
- Note that e2e, lint and test are shared!
 - However, you can supply an "app specific" file at the command line
 - ng e2e --config /path/to/app/specific/config

```
"$schema": "./node_modules/@angular/cli/lib/config/schema.json",
"project": {
 "name": "some-project"
"apps": [
   "root": "src",
   // ...
"defaults": {
  "styleExt": "scss",
  "component": {}
```

```
"defaults": {
  "styleExt": "css",
  "component": {},
  "build": {
    "sourcemaps": true,
    "baseHref": "/"
  "serve": {
   "port": 4200,
    "proxyConfig": "proxy.config.json"
```

NG GENERATE

GENERATE

- Code generation via Schematics
- Supports aliases for almost all commands

```
ng help generate
Available schematics:
    application
    class
    component
    directive
    enum
    guard
    interface
    module
    pipe
    service
    universal
    appShell
```

```
ng help generate
Available schematics:
    application
    class
    component
    directive
    enum
    guard
    interface
    module
    pipe
    service
    universal
    appShell
```

- > ng g m Core
- > # same as
- > ng generate module Core
- > # produces
 create src/app/core/core.module.ts (188 bytes)

- > ng g s Api -m Core
- > # same as
- > ng generate service Api --module Core
- > # produces

```
create src/app/api.service.spec.ts (356 bytes)
create src/app/api.service.ts (109 bytes)
update src/app/Core/Core.module.ts (260 bytes)
```

```
ng g cl Todo --type model create src/app/todo.model.ts (22 bytes)
```

NG UPDATE

UPDATE

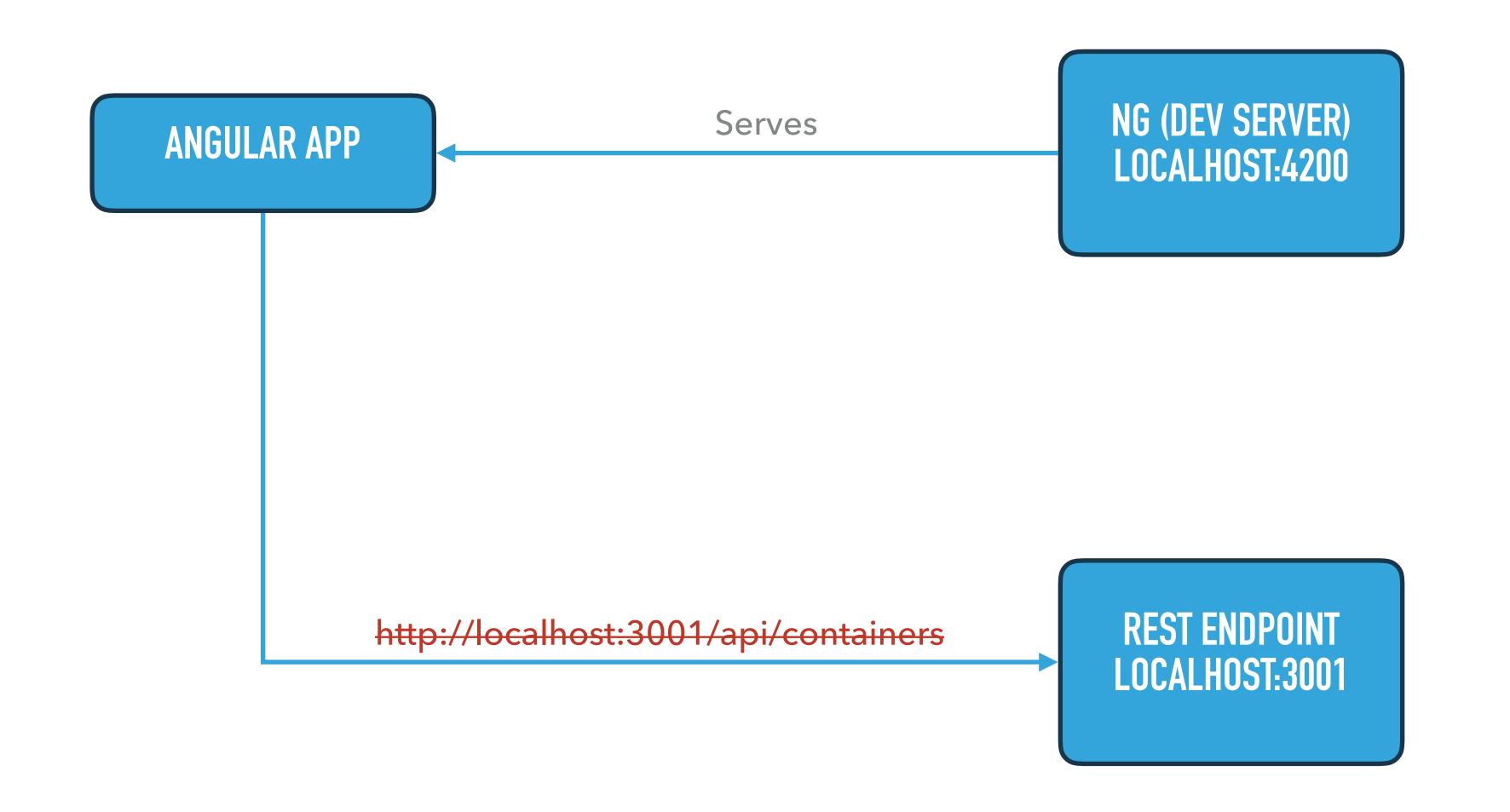
- Only updates package.json
- Use judiciously

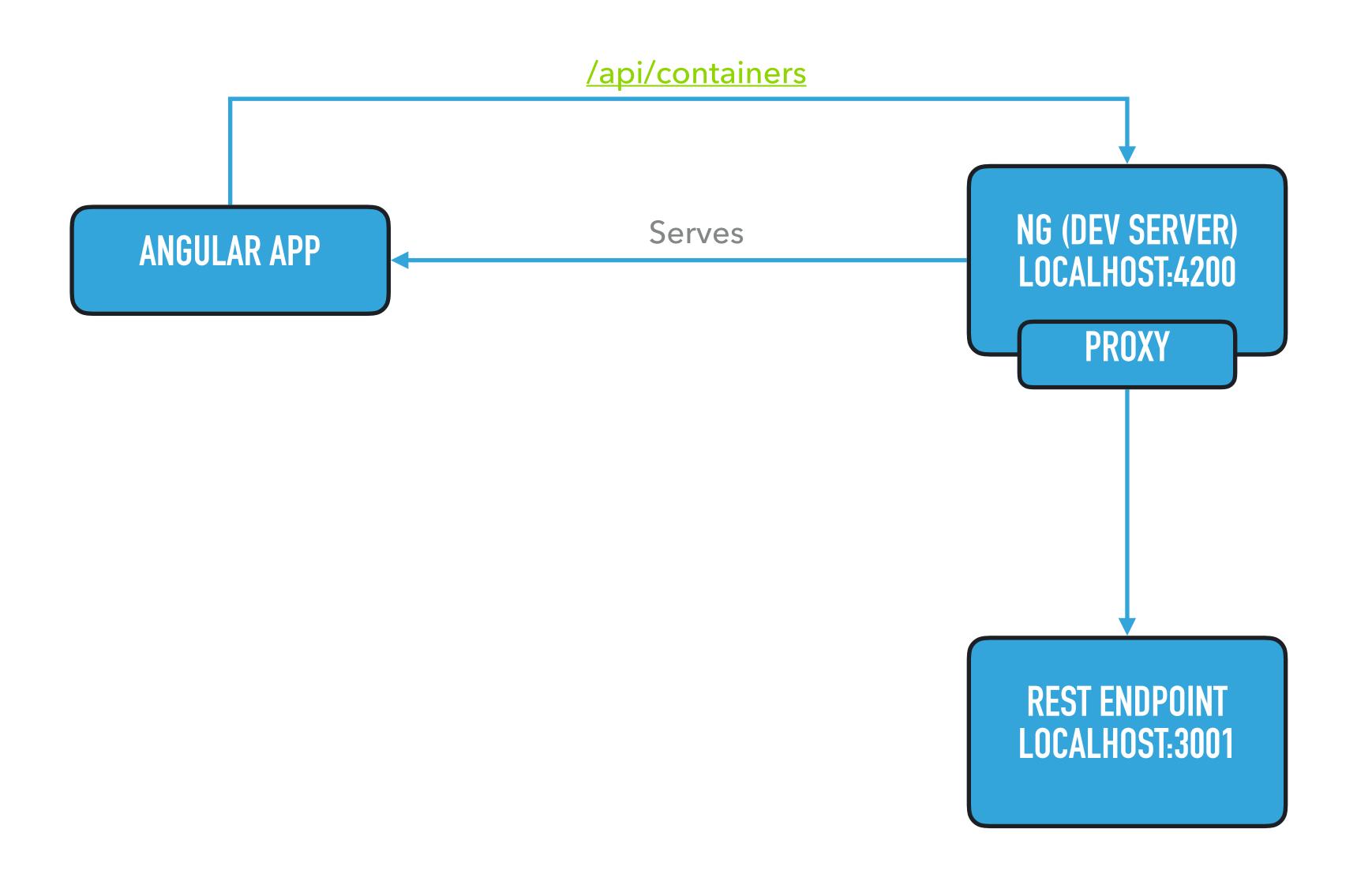
NG TEST

```
$ ng test --browser ChromeHeadless # watch mode
$ ng test --browser ChromeHeadless --single-run # ci
```

NG SERVE

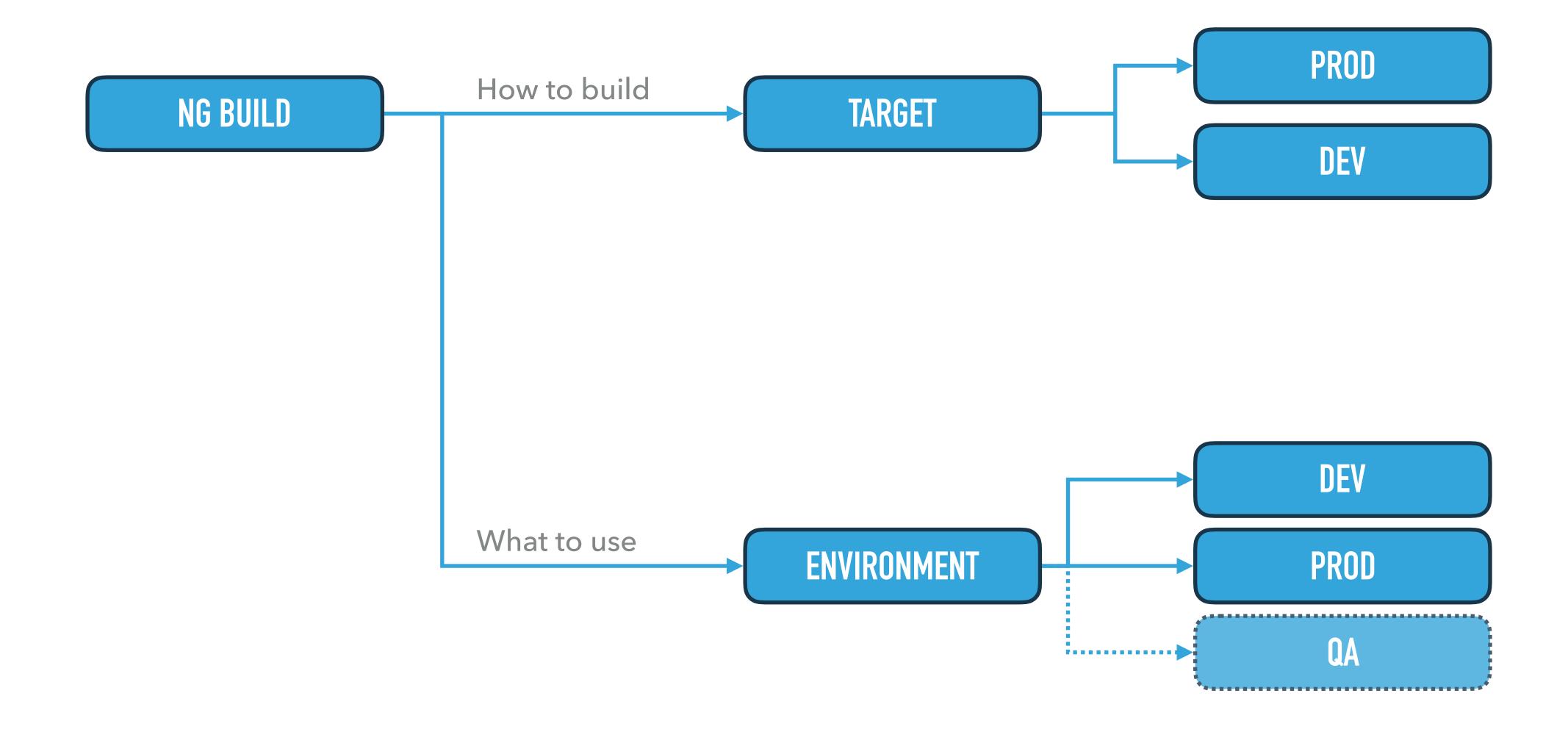
CORS





```
> cat proxy.config.json
 "/api": {
    "target": "http://localhost:3001",
   "secure": false
> ng serve -pc proxy.config.json
# angular service
http.get('/api/containers');
```

NG BUILD



```
import {
  isDevMode
} from '@angular/core';

import {
  environment
} from '../environments/environment';
```

BUILD

- dev / prod are the only "targets" supported
 - These are "meta" flags that affect compilation (JIT vs AOT), sourcemaps etc
- You can add as many other "environments" as you like
 - Create src/environments/environment.NAME.ts
 - Update .angular-cli.json with the same NAME
 - ▶ Invoke with ng build --env NAME

EXTERNAL TOOLS

- > # install compodoc globally
- > npm install -g @compodoc/compodoc
- > # generate docs
- > compodoc -p ./tsconfig.json

COMPODOCS

- Supports
 - Visualizing your modules/components/classes/enums/services
 - Test coverage
 - Themes
 - Search
 - watch and serve

- > # install webpack-bundle-analyzer
- > npm install --save-dev webpack-bundle-analyzer
- > # generate stats file in dist/stats.json
- > ng build --prod --env=prod --stats-json
- > webpack-bundle-analyzer dist/stats.json

THANKS!

RAJU GANDHI