

# EVERYTHING-AS-CODE: IT'S TIME TO FIX CONFIGURATIONS



PELEG PORAT

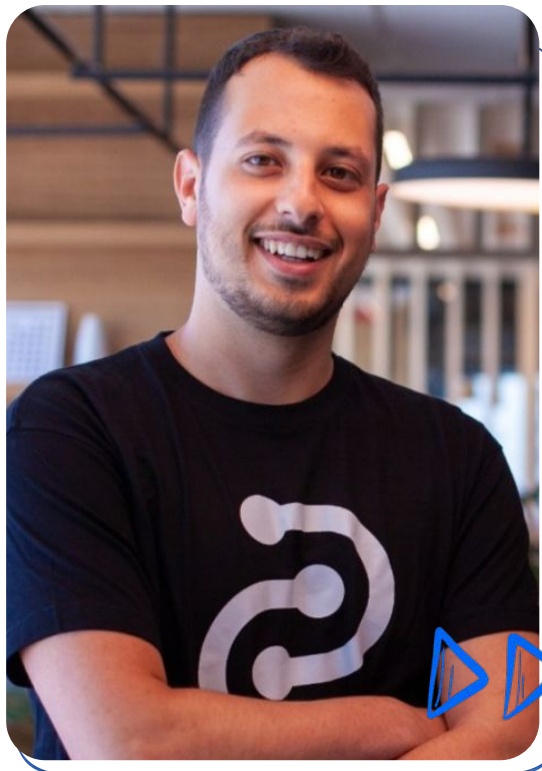
Co-Founder and CEO @ Configu



[linkedin.com/in/peleg-porat](https://www.linkedin.com/in/peleg-porat)



CONF42



## WHO AM I ?

Peleg Porat

Co-founder and CEO @ Configu

More than 8 years of experience as a  
Software Developer

Specializing in network security

CEO BY DAY,



CODE WHISPERER BY NIGHT



# WHAT WE WILL COVER



Understanding Application Configurations and Their Challenges



Built-in .env file support in Node v20.6.0



Everything-as-Code



Configuration-as-Code (CaC)



Hands on examples

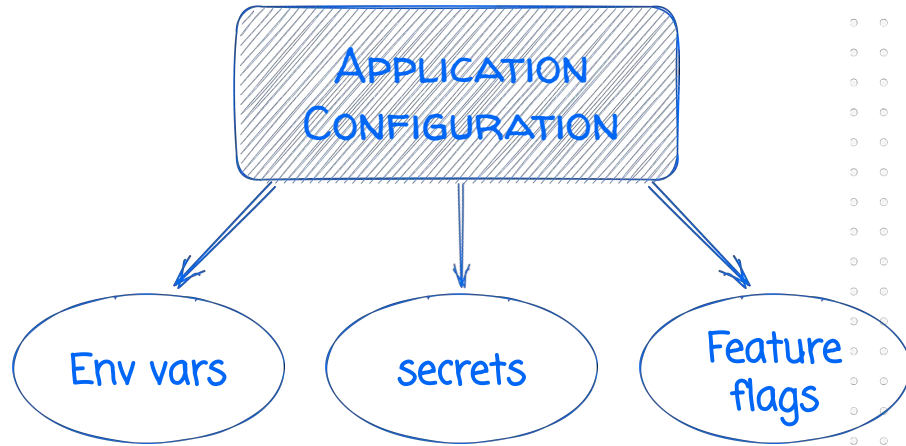


AN **APP'S CONFIG** IS EVERYTHING THAT IS LIKELY TO VARY BETWEEN DEPLOYS (STAGING, PRODUCTION, DEVELOPER ENVIRONMENTS, ETC.)

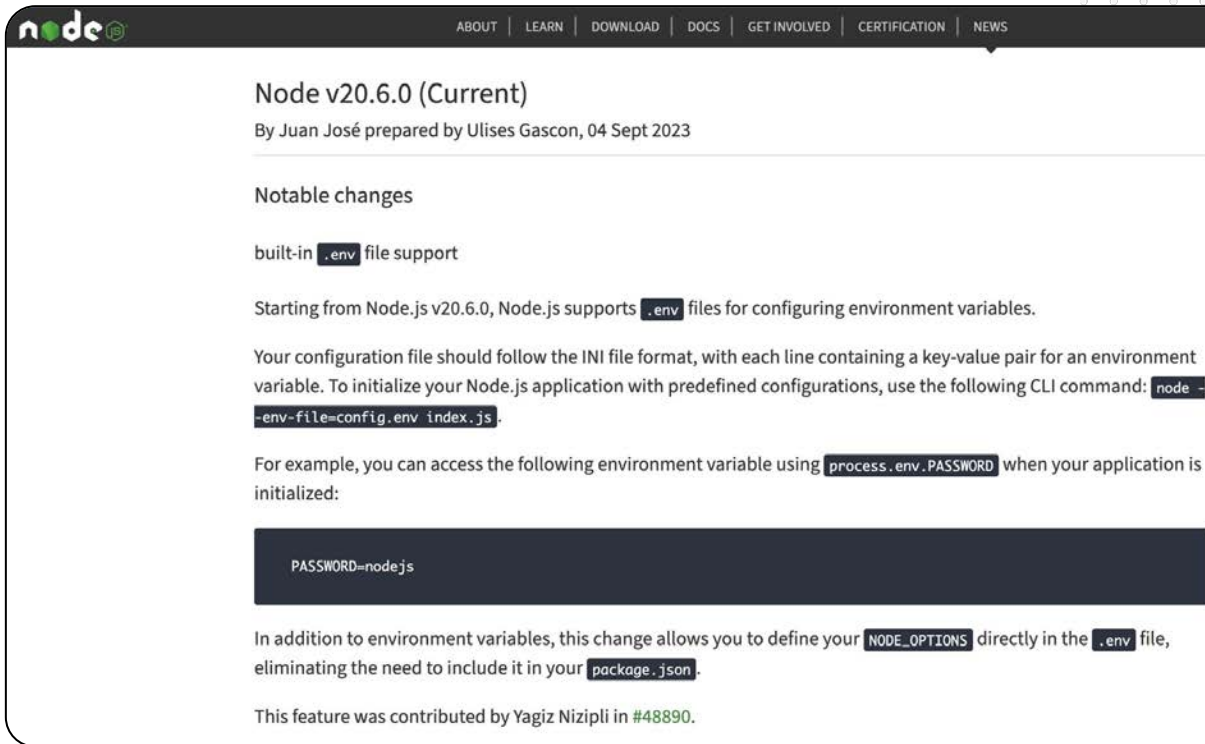


The Twelve-Factor App [12factor.net/config](https://12factor.net/config)





Everything-as-Code: It's time to fix configurations



node.js

ABOUT | LEARN | DOWNLOAD | DOCS | GET INVOLVED | CERTIFICATION | NEWS

## Node v20.6.0 (Current)

By Juan José prepared by Ulises Gascon, 04 Sept 2023

### Notable changes

#### built-in `.env` file support

Starting from Node.js v20.6.0, Node.js supports `.env` files for configuring environment variables.

Your configuration file should follow the INI file format, with each line containing a key-value pair for an environment variable. To initialize your Node.js application with predefined configurations, use the following CLI command: `node -env-file=config.env index.js`.

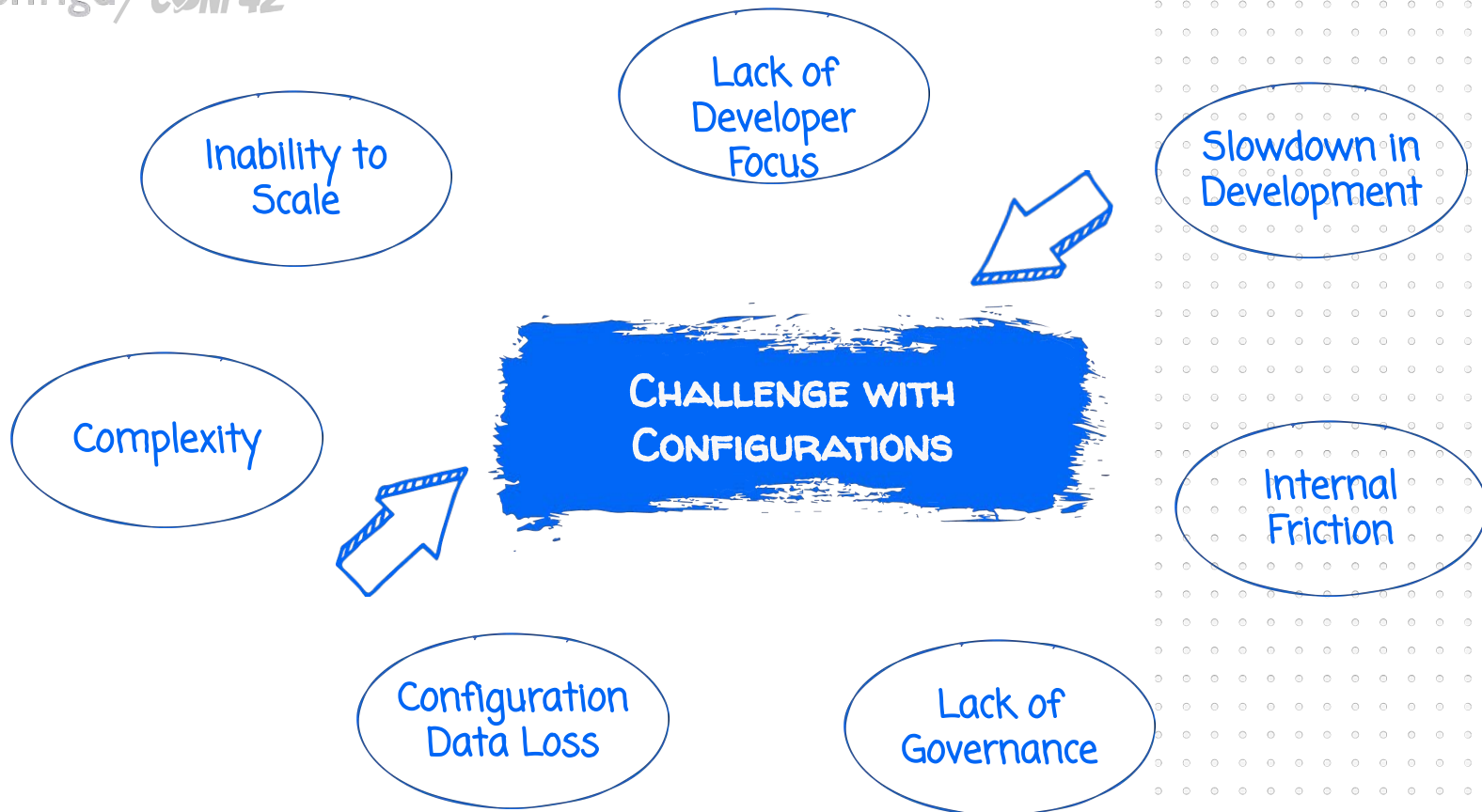
For example, you can access the following environment variable using `process.env.PASSWORD` when your application is initialized:

```
PASSWORD=nodejs
```

In addition to environment variables, this change allows you to define your `NODE_OPTIONS` directly in the `.env` file, eliminating the need to include it in your `package.json`.

This feature was contributed by Yagiz Nizipli in [#48890](#).

**.env**









Everything-as-Code: It's time to fix configurations

# CONFIGURATION-AS-CODE (CAC)



Everything-as-Code: It's time to fix configurations

## CONFIGURATION-AS-CODE (CAC)

Consistency and  
Reproducibility

Versioning and  
Tracking

Automation and  
Efficiency

Scalability and  
Agility

Collaboration and  
Teamwork

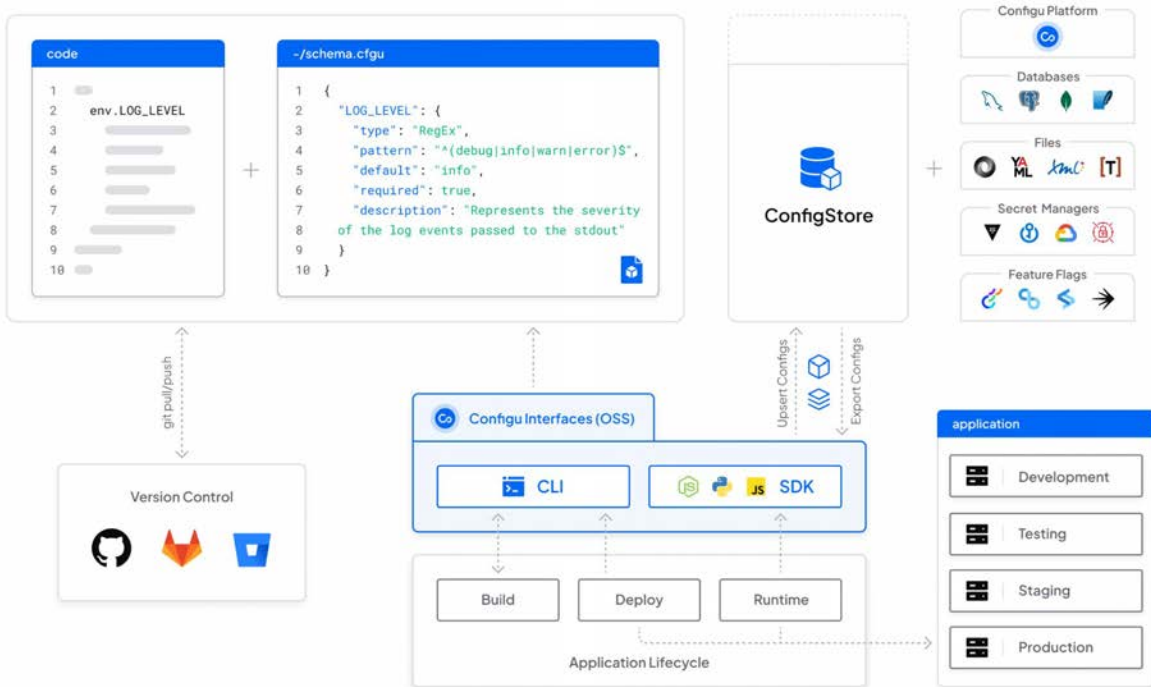
Auditability and  
Security

Simplifies  
Configuration  
Management

Eliminates Manual  
Errors

Enhances  
Efficiency and  
Productivity

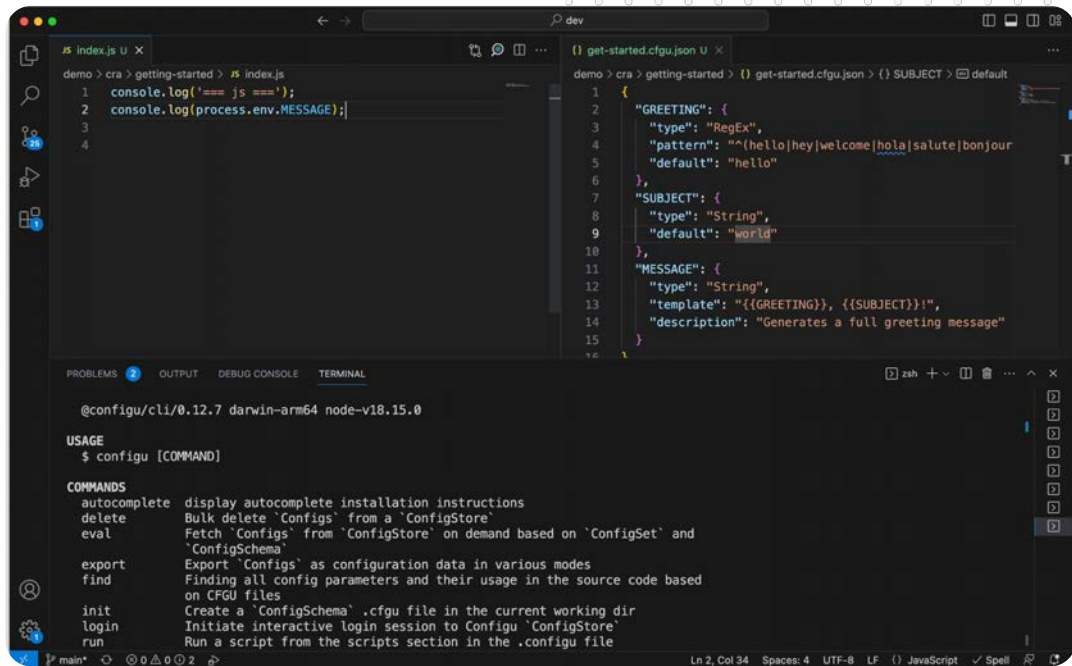
# INTRODUCTION TO CONFIGU



Everything-as-Code: It's time to fix configurations

## HANDSON EXAMPLE

- ➔ App: JS "Hello World"
- ➔ Managed by: Configu's CLI
- ➔ Stored on: JSON-file
- ➔ Environments: dev & prod
- ➔ Configurations-as-Code:  
Configu schema



```
demo > cra > getting-started > JS index.js
1 console.log('== js ==');
2 console.log(process.env.MESSAGE);
3
4

demo > cra > getting-started > {} get-started.cfgu.json > {} SUBJECT > default
1 {
2   "GREETING": {
3     "type": "RegExp",
4     "pattern": "^(hello|hey|welcome|hola|salute|bonjour",
5     "default": "hello"
6   },
7   "SUBJECT": {
8     "type": "String",
9     "default": "world"
10  },
11  "MESSAGE": {
12    "type": "String",
13    "template": "{{GREETING}}, {{SUBJECT}}!",
14    "description": "Generates a full greeting message"
15  }
16 }
```

```
@configu/cli/0.12.7 darwin-arm64 node-v18.15.0
USAGE
$ configu [COMMAND]

COMMANDS
autocomplete  display autocomplete installation instructions
delete        Bulk delete `Configs` from a `ConfigStore`
eval          Fetch `Configs` from `ConfigStore` on demand based on `ConfigSet` and
              `ConfigSchema`
export        Export `Configs` as configuration data in various modes
find          Finding all config parameters and their usage in the source code based
              on CFGU files
init          Create a `ConfigSchema` .cfgu file in the current working dir
login        Initiate interactive login session to Configu `ConfigStore`
run           Run a script from the scripts section in the .configu file
```

# THANK YOU FOR YOUR ATTENTION!

---

## FOLLOW CONFIGU

Website:  
[configu.com](https://configu.com)

GitHub:  
[github.com/configu/configu](https://github.com/configu/configu)

X (Twitter):  
[@WeAreConfigu](https://twitter.com/WeAreConfigu)

LinkedIn:  
[@Configu](https://www.linkedin.com/company/configu)

