

Project Talan: CLI

pitch deck

A dark blue diagonal gradient bar that starts from the bottom left corner and extends towards the top right corner, covering the bottom half of the slide.

Talan CLI

Talan CLI (tln) is an open-source framework for managing third-party components from wide range of ecosystems (Java, Node.js, C++, Golang, Angular etc.).

tln helps to create fully isolated development environments,

uniformly manages mono- & multi- repo configurations,

builds smooth onboarding experience,

melts borders between local development environments and CI/CT/CD setups,

gets maximum from Polyglot Programming
Polyglot Persistence (4Ps) design,

implements Software Architecture as Code

Projects cataloging

- Single point of truth for all company projects, internal or/and external
- Painless switch between projects
- Handle mono-/multi- repo configurations

```
/
└─ petramco
   └─ delivery
      │ └─ hyperhype
      │ │ └─ cms
      │ │ └─ crm
      │ │ └─ portal
      │ │ └─ warehouse
      └─ skeletons
         └─ java
         └─ nodejs
         └─ rust
         └─ typescript
      └─ hr
         └─ referral-grid
   └─ it
      └─ web
         └─ brand-site
         └─ portal
         └─ solutions
```


Cross -platform/-ecosystem virtual environment

- Manage different versions of components (java, kubectl, helm, angular, go, etc.)
- Handle multiple environments at the same dev box
- Quick project/developer onboarding
- Don't modify underlying OS

```
module.exports = {
  options: async (tln, args) => {},
  env: async (tln, env) => {},
  dotenvs: async (tln) => [],
  inherits: async (tln) => [],
  depends: async (tln) => ['mvn-3.6.3', 'openjdk-11.0.2', 'go-1.14.4', 'node-14.4.0', 'angular-9'],
  steps: async (tln) => [
    {
      id: "versions",
      builder: async (tln, script) => script.set([
        'java -version && mvn -v && go version && node -v && cordova -v && ng version'
      ])
    }
  ],
  components: async (tln) => []
}
```

```
openjdk version "11.0.2" 2019-01-15
OpenJDK Runtime Environment 18.9 (build 11.0.2+9)
OpenJDK 64-Bit Server VM 18.9 (build 11.0.2+9, mixed mode)
Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f)
Maven home: /root/work/maven/mvn-3.6.3
Java version: 11.0.2, vendor: Oracle Corporation, runtime: /r
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "4.15.0-143-generic", arch: "amd64"
go version go1.14.4 linux/amd64
v14.4.0
9.0.0 (cordova-lib@9.0.1)
```

Software Architecture as Code (tln-cli-2.x.x)

- Maintain consistent relation between source code and UML/C4 diagrams
- Every PR will show changes not only at source code level, but also unhide changes in architecture

