



## 2 - Initialize Video Processing Service

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# Initialize Video Processing Service (Express TypeScript Boilerplate)

You can find the finished code for this course [here](#) for your reference. Most lessons have a commit

associated with them. You can find the commit history via `git log`.

We will be using Express.js and TypeScript for our Video Processing Service.

There are ways we can auto-generate the boilerplate code for Express.js and TypeScript. But we will do so



Mark Lesson Complete



```
mkdir video-processing-service
cd video-processing-service
npm init -y
```

This will create a new `package.json` file with default values.

2. Install Express, TypeScript, and the TypeScript Node development server as dependencies:

```
npm install express
npm install --save-dev typescript ts-node
```

3. Install the type definitions for Node.js and Express:

```
npm install --save-dev @types/node
@types/express
```

TypeScript will automatically use `@types` packages to provide type definitions for Node.js and Express.

## Full Stack Development



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### Intro

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8 min FREE  
Architecture

1 F 4 min FREE

### Video Processing Service

2 Initialize  
Video  
11 min FREE  
Processing  
Service

3 Process  
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Locally

4 Containerize  
Video  
15 min  
Processing  
Service

5 Convert  
Videos  
Hosted  
on  
Google  
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Storage  
24 min

Basically, TypeScript code goes through a *build step* where it is converted into JavaScript. The type definitions are used during this build step to ensure that your code is type-safe (no mismatching types). If there are errors, the build will fail.

4. Create a `tsconfig.json` file for TypeScript configuration:

```
{
  "compilerOptions": {
    "target": "es6",
    "module": "commonjs",
    "rootDir": "src",
    "outDir": "dist",
    "strict": true,
    "esModuleInterop": true,
    "include": ["src/**/*.ts"],
    "exclude": ["node_modules"]
  }
}
```

5. Update your `package.json` scripts:

```
"scripts": {
  "start": "ts-node src/index.ts",
  "build": "tsc",
  "serve": "node dist/index.js"
}
```

6. Create a new `src` directory with an `index.ts` file for your Express app:

```
import express from 'express';

const app = express();
const port = 3000;
```

## Google Cloud

```
app.get('/', (req, res) => {  
  res.send('Hello World!');  
});  
  
app.listen(port, () => {  
  console.log(`Server running at  
http://localhost:${port}`);  
});
```

7. Now you can start your Express.js server with

```
npm run start
```