

# VSCode Debug Nestjs and Docker Environment

in .vscode folder:

```
{
  // Use IntelliSense to learn about possible attributes.
  // Hover to view descriptions of existing attributes.
  // For more information, visit: https://go.microsoft.com/fwlink/?linkid=830387
  "version": "0.2.0",
  "configurations": [
    {
      "type": "node",
      "request": "attach",
      "name": "Debug Nestjs Apps",
      "address": "localhost",
      "port": 9229,
      "sourceMaps": true,
      "restart": true,
      "localRoot": "${workspaceFolder}",
      "remoteRoot": "/usr/src/app"
    }
  ]
}
```

in docker-compose.yml

```
services:
  auth:
    build:
      context: .
      dockerfile: ./apps/auth/Dockerfile
      target: development
    command: npm run start:debug auth
    env_file:
```

```
- ./apps/auth/.env
ports:
- '3000:3000'
- '9229:9229'
volumes:
- ./usr/src/app
- /usr/src/app/node_modules
```

in package.json

edit the start:debug with ip address and port for remote debug:

```
"start:debug": "nest start --debug 0.0.0.0:9229 --watch",
```

package.json demo

```
{
  "name": "nestjs-microservices-auth",
  "version": "0.0.1",
  "description": "",
  "author": "",
  "private": true,
  "license": "UNLICENSED",
  "scripts": {
    "build": "nest build",
    "format": "prettier --write \"apps/**/*.ts\" \"libs/**/*.ts\"\"",
    "start": "nest start",
    "start:dev": "nest start --watch",
    "start:debug": "nest start --debug 0.0.0.0:9229 --watch",
    "start:prod": "node dist/apps/nestjs-microservices-auth/main",
    "lint": "eslint \"{src,apps,libs,test}/**/*.ts\" --fix",
    "test": "jest",
    "test:watch": "jest --watch",
    "test:cov": "jest --coverage",
    "test:debug": "node --inspect-brk -r tsconfig-paths/register -r ts-node/register node_modules/.bin/jest --runInBand",
    "test:e2e": "jest --config ./apps/nestjs-microservices-auth/test/jest-e2e.json"
  },
  "dependencies": {
    "@nestjs/common": "^10.0.0",
    "@nestjs/config": "^3.3.0",
```

```
"@nestjs/core": "^10.0.0",
"@nestjs/mongoose": "^10.1.0",
"@nestjs/platform-express": "^10.0.0",
"joi": "^17.13.3",
"mongoose": "^8.9.3",
"reflect-metadata": "^0.2.0",
"rxjs": "^7.8.1"
},
"devDependencies": {
"@nestjs/cli": "^10.0.0",
"@nestjs/schematics": "^10.0.0",
"@nestjs/testing": "^10.0.0",
"@types/express": "^5.0.0",
"@types/jest": "^29.5.2",
"@types/node": "^20.3.1",
"@types/supertest": "^6.0.0",
"@typescript-eslint/eslint-plugin": "^8.0.0",
"@typescript-eslint/parser": "^8.0.0",
"eslint": "^8.0.0",
"eslint-config-prettier": "^9.0.0",
"eslint-plugin-prettier": "^5.0.0",
"jest": "^29.5.0",
"prettier": "^3.0.0",
"source-map-support": "^0.5.21",
"supertest": "^7.0.0",
"ts-jest": "^29.1.0",
"ts-loader": "^9.4.3",
"ts-node": "^10.9.1",
"tsconfig-paths": "^4.2.0",
"typescript": "^5.1.3"
},
"jest": {
  "moduleFileExtensions": [
    "js",
    "json",
    "ts"
  ],
  "rootDir": ".",
  "testRegex": ".*\\.spec\\.ts$",
  "transform": {
```

start the app using docker compose up first

then click debug profile to start attach into the remote app

