

# Distributed Content Searching Application

## System Requirements

- Java JDK 8 or higher
- Maven 3.1.1 or higher

## How to run a single node of the distributed system?

1. Download the zip file and open the `Distributed-Content-Searching/DSFileShare/` directory.

```
cd Distributed-Content-Searching/DSFileShare/
```

2. To install dependencies and build jar file

```
mvn clean package
```

3. Navigate to the target folder

```
cd target
```

4. To run a single node

```
java -jar fs-0.0.1-SNAPSHOT.jar --server.port=8082
```

You can change the `server.port` which is used to export restful api which can be used to issue commands like `published`, `search` to the node. The port that will be used for the peer-to-peer communication will be assigned automatically and connect to the bootstrap server and the peers when application starts.

**Before starting the nodes you must start the bootstrap server. If you want to change the bootstrap server port and host before building the jar, navigate to the `src/main/resources` folder and edit the properties in `application.yml` file.**

A postman API collection is provided for all the rest APIs which can be used to issue commands to the nodes.