Install Spring Cloud Data Flow For Mac/OSX

1. Install Spring Cloud Data Flow Server
    a. Open a terminal window
    b. Create a dataflow directory
        i. `mkdir /Users/<your home directory>/dataflow`
    c. Change directory to the c:\dataflow directory
        i. `cd /Users/<your home directory>/dataflow`
    d. `wget http://repo.spring.io/release/org/springframework/cloud/spring-cloud-dataflow-server-local/1.1.2.RELEASE/spring-cloud-dataflow-server-local-1.1.2.RELEASE.jar`
2. Install Spring Cloud Data Flow Shell
    a. `wget http://repo.spring.io/release/org/springframework/cloud/spring-cloud-dataflow-shell/1.1.2.RELEASE/spring-cloud-dataflow-shell-1.1.2.RELEASE.jar`
3. Start Spring Cloud Data Flow Server
    a. From your `/Users/<your home directory>/dataflow` directory execute the following:
        i. `java -jar spring-cloud-dataflow-server-local-1.1.1.RELEASE.jar`
        ii. Once started the last line that should appear in your cmd shell is :

```
2017-01-26 14:50:22.243  INFO 79753 --- [main] o.s.c.d.s.local.LocalDataFlowServer: Started
LocalDataFlowServer in 9.863 seconds (JVM running for 10.453)
```

4. Start Spring Cloud Data Flow Shell
    a. Open a new command shell and cd directory to your dataflow directory as show below:
        i. `cd /Users/<your home directory>/dataflow`
    b. Start the Spring Cloud Data Flow shell by executing:
        i. `java -jar spring-cloud-dataflow-shell-1.1.1.RELEASE.jar`
        ii. Once started the last you should see the following:

```
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  ___) | |_) | |  | | | | | (_| | | |___| | (_) | |_| | (_| |
```

```
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1.2.0.BUILD-SNAPSHOT

Welcome to the Spring Cloud Data Flow shell. For assistance hit TAB or type
"help".
dataflow:>
```

3) Register apps and create your first stream

1. Import the starters apps for streams
    a. From the Spring Cloud Data Flow Shell enter the following import command:
        i. `app import --uri http://bit.ly/Avogadro-GA-stream-applications-rabbit-maven`
        ii. <press return>
2. Now lets create our first stream
        i. `stream create --name myfirststream --definition "time | log" --deploy`
3. Now let's check to if we are getting the timestamps in our log file.
    a. Now go back to your Spring Cloud Data Flow Shell/CMD window. You will see something like the following :

```
2017-01-26 15:18:19.375  INFO 79753 --- [nio-9393-exec-5] o.s.c.d.spi.local.LocalAppDeploye
: deploying app myfirststream.log instance 0
Logs will be in
/var/folders/xm/mjpnx_wx6jn4g3lm_qtyjcxm0000gn/T/spring-cloud-dataflow-448793859238631368/m
firststream-1485461899347/myfirststream.log
2017-01-26 15:18:39.043  INFO 79753 --- [nio-9393-exec-5] o.s.c.d.spi.local.LocalAppDeploye
: deploying app myfirststream.time instance 0
Logs will be in
/var/folders/xm/mjpnx_wx6jn4g3lm_qtyjcxm0000gn/T/spring-cloud-dataflow-448793859238631368/m
firststream-1485461919036/myfirststream.time
```

    b. Now let's check the log to see if we can view our timestamps:
    c. Let's copy the location of our myfirststream.log application like so:

```
2017-01-26 15:18:19.375  INFO 79753 --- [nio-9393-exec-5] o.s.c.d.spi.local.LocalAppDeploye
: deploying app myfirststream.log instance 0
Logs will be in
c:\Users\Julia\AppData\Local\Temp\spring-cloud-dataflow-448793859238631368\myfirststream-23
42342233221\myfirststream.log
2017-01-26 15:18:39.043  INFO 79753 --- [nio-9393-exec-5] o.s.c.d.spi.local.LocalAppDeploye
: deploying app myfirststream.time instance 0
Logs will be in
c:\Users\Julia\AppData\Local\Temp\spring-cloud-dataflow-4141324321412318\myfirststream-1234
2412412421412351\myfirststream.time
```

d. To view the contents of our log we need use our favorite editor to open the directory copied from above and adding stdout_0.log . For example:

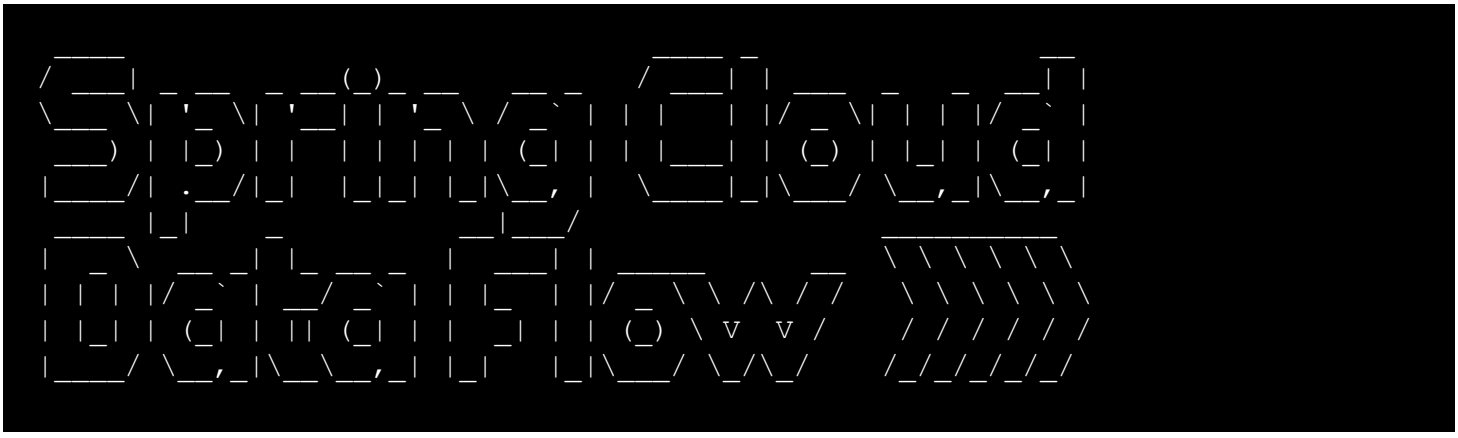
```
more
c:\Users\Julia\AppData\Local\Temp\spring-cloud-dataflow-448793859238631368\myfirststream-2
42342233221\myfirststream.log\stdout_0.log
```

Install Spring Cloud Data Flow For Windows

1. Install Spring Cloud Data Flow Server
    a. Open a command prompt
    b. Create a dataflow directory
        i. `md c:\dataflow`
    c. Change directory to the c:\dataflow directory
        i. `cd c:\dataflow`
    d. From your browser download Spring Cloud Data Flow Server jar file from here
    e. Copy the downloaded jar file to the `c:\dataflow` directory
2. Install Spring Cloud Data Flow Shell
    a. From your browser download Spring Cloud Data Flow Shell from here
    b. Copy the downloaded jar file to the `c:\dataflow` directory
3. Start Spring Cloud Data Flow Server
    a. From your c:\dataflow directory execute the following:
        i. `java -jar spring-cloud-dataflow-server-local-1.1.1.RELEASE.jar`
            1. Once started the last line that should appear in your cmd shell is :

```
2017-01-26 14:50:22.243  INFO 79753 --- [main] o.s.c.d.s.local.LocalDataFlowServer: Started
LocalDataFlowServer in 9.863 seconds (JVM running for 10.453)
```

4. Start Spring Cloud Data Flow Shell
    a. Open a new cmd shell and cd directory to your dataflow directory as show below:
    b. `cd c:\dataflow`
    c. Start the Spring Cloud Data Flow shell by executing:
        i. `java -jar spring-cloud-dataflow-shell-1.1.1.RELEASE.jar`
    d. Once started the last you should see the following:



```
1.2.0.BUILD-SNAPSHOT

Welcome to the Spring Cloud Data Flow shell. For assistance hit TAB or type
"help".
dataflow:>
```

3) Register apps and create your first stream

1. Import the starters apps for streams
    a. From the Spring Cloud Data Flow Shell enter the following import command:
        i. app import --uri

            http://bit.ly/Avogadro-GA-stream-applications-rabbit-maven

        ii. <press return>
2. Now lets create our first stream
        i. Stream create --name myfirststream --definition “time | log” --deploy
3. Now let’s check to if we are getting the timestamps in our log file.
    a. Now go back to your Spring Cloud Data Flow Shell/CMD window. You will see something like the following :

```
2017-01-26 15:18:19.375  INFO 79753 --- [nio-9393-exec-5] o.s.c.d.spi.local.LocalAppDeploye
: deploying app myfirststream.log instance 0
Logs will be in
/var/folders/xm/mjpnx_wx6jn4g3lm_qtyjcxm0000gn/T/spring-cloud-dataflow-448793859238631368/m
firststream-1485461899347/myfirststream.log
2017-01-26 15:18:39.043  INFO 79753 --- [nio-9393-exec-5] o.s.c.d.spi.local.LocalAppDeploye
: deploying app myfirststream.time instance 0
Logs will be in
/var/folders/xm/mjpnx_wx6jn4g3lm_qtyjcxm0000gn/T/spring-cloud-dataflow-448793859238631368/m
firststream-1485461919036/myfirststream.time
```

    b. Now let’s check the log to see if we can view our timestamps:
    c. Let’s copy the location of our myfirststream.log application like so:

```
2017-01-26 15:18:19.375  INFO 79753 --- [nio-9393-exec-5] o.s.c.d.spi.local.LocalAppDeploye
: deploying app myfirststream.log instance 0
Logs will be in
/var/folders/xm/mjpnx_wx6jn4g3lm_qtyjcxm0000gn/T/spring-cloud-dataflow-448793859238631368/m
firststream-1485461899347/myfirststream.log
2017-01-26 15:18:39.043  INFO 79753 --- [nio-9393-exec-5] o.s.c.d.spi.local.LocalAppDeploye
: deploying app myfirststream.time instance 0
Logs will be in
/var/folders/xm/mjpnx_wx6jn4g3lm_qtyjcxm0000gn/T/spring-cloud-dataflow-448793859238631368/m
firststream-1485461919036/myfirststream.time
```

d. To view the contents of our log we need use our favorite editor to open the directory copied from above and adding stdout_0.log . For example:

```
vi /var/folders/xm/mjpnx_wx6jn4g3lm_qtyjcxm0000gn/T/
spring-cloud-dataflow-448793859238631368/myfirststream-1485461899347/myfirststream.log/do
ut_0.log
```