

Install Spring Cloud Data Flow For Mac/OSX

1. Install Spring Cloud Data Flow Server

- Open a terminal window
- Create a dataflow directory
 - `mkdir /Users/<your home directory>/dataflow`
- Change directory to the c:\dataflow directory
 - `cd /Users/<your home directory>/dataflow`
- `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/sp
ring-cloud-dataflow-shell/1.1.2.RELEASE/spring-cloud-dataf
low-shell-1.1.2.RELEASE.jar
```

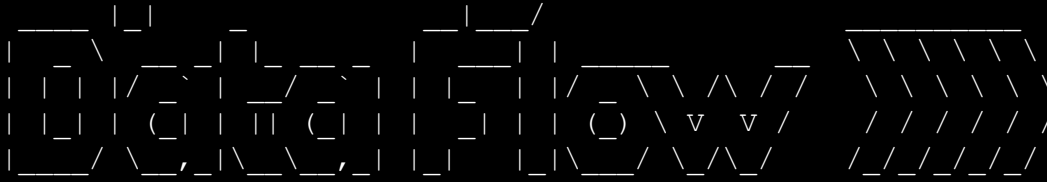
### 3. Start Spring Cloud Data Flow Server

- a. From your `/Users/<your home directory>/dataflow` directory execute the following:
  - i. `java -jar`  
`spring-cloud-dataflow-server-local-1.1.2.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-1.1.2.RELEASE.jar`
  - ii. Once started the last you should see the following:



1.2.0.BUILD-SNAPSHOT

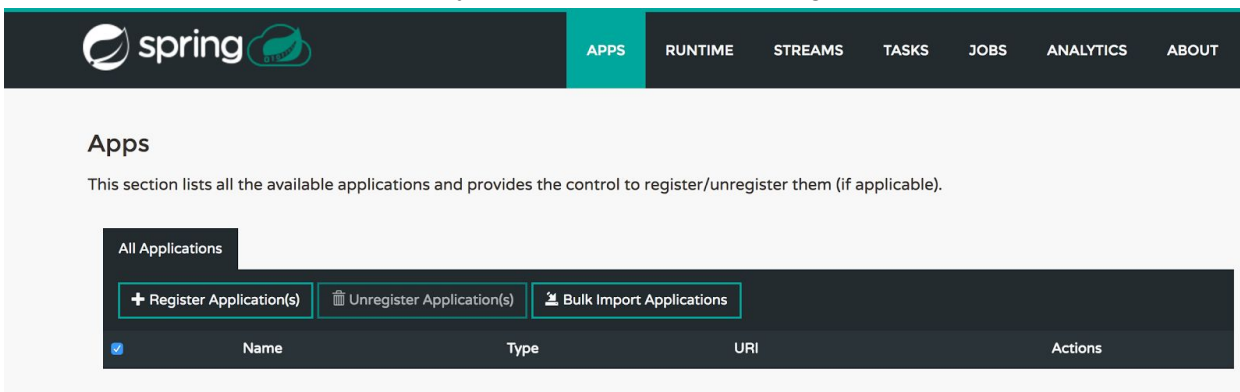
Welcome to the Spring Cloud Data Flow shell. For assistance hit TAB or type "help".  
dataflow:>

- c. Now let's just kick the tires a bit and verify that we do not have any streams available. From the shell type:
  - i. `stream list`
  - ii. `<hit return>`
  - iii. We should see the following returned:

| Stream Name | Stream Definition | Status |
|-------------|-------------------|--------|
|-------------|-------------------|--------|

## 5. View the Spring Cloud Data Flow UI

- a. Open your favorite browser and enter the following url:
  - i. <http://localhost:9393/dashboard>
  - ii. And you should see the following:



6. Now let's view the boot actuator endpoints available to us as well as those provided by Spring Cloud DataFlow.
  - a. From your favorite browser and enter the following url:
    - i. <http://localhost:9393>
    - ii. And you should see the following:

```
{ "_links": { "dashboard": { "href": "/dashboard" }, "streams/definitions": { "href": "http://localhost:9393/streams/definitions", "streams/definitions/definition": { "href": "http://localhost:9393/streams/definitions/{name}", "templated": true }, "streams/deployments": { "href": "http://localhost:9393/streams/deployments", "streams/deployments/deployment": { "href": "http://localhost:9393/streams/deployments/{name}", "templated": true }, "runtime/apps": { "href": "http://localhost:9393/runtime/apps", "runtime/apps/app": { "href": "http://localhost:9393/runtime/apps/{appId}", "templated": true }, "runtime/apps/instances": { "href": "http://localhost:9393/runtime/apps/{appId}/instances", "templated": true }, "tasks/definitions": { "href": "http://localhost:9393/tasks/definitions", "tasks/definitions/definition": { "href": "http://localhost:9393/tasks/definitions/{name}", "templated": true }, "tasks/deployments": { "href": "http://localhost:9393/tasks/deployments", "tasks/deployments/deployment": { "href": "http://localhost:9393/tasks/deployments/{name}", "templated": true }, "tasks/executions": { "href": "http://localhost:9393/tasks/executions", "tasks/executions/name": { "href": "http://localhost:9393/tasks/executions/{id}", "templated": true }, "jobs/executions": { "href": "http://localhost:9393/jobs/executions", "jobs/executions/name": { "href": "http://localhost:9393/jobs/executions/{?name}", "templated": true }, "jobs/executions/execution": { "href": "http://localhost:9393/jobs/executions/{id}", "templated": true }, "jobs/executions/execution/steps": { "href": "http://localhost:9393/jobs/executions/{jobExecutionId}/steps", "templated": true }, "jobs/executions/execution/steps/step": { "href": "http://localhost:9393/jobs/executions/{jobExecutionId}/steps/{stepId}", "templated": true }, "jobs/executions/execution/steps/step/progress": { "href": "http://localhost:9393/jobs/executions/{jobExecutionId}/steps/{stepId}/progress", "templated": true }, "jobs/instances/name": { "href": "http://localhost:9393/jobs/instances/{name}", "templated": true }, "jobs/instances/instance": { "href": "http://localhost:9393/jobs/instances/{id}", "templated": true }, "counters": { "href": "http://localhost:9393/metrics/counters", "counters/counter": { "href": "http://localhost:9393/metrics/counters/{name}", "templated": true }, "field-value-counters": { "href": "http://localhost:9393/metrics/field-value-counters", "field-value-counters/counter": { "href": "http://localhost:9393/metrics/field-value-counters/{name}", "templated": true }, "aggregate-counters": { "href": "http://localhost:9393/metrics/aggregate-counters", "aggregate-counters/counter": { "href": "http://localhost:9393/metrics/aggregate-counters/{name}", "templated": true }, "apps": { "href": "http://localhost:9393/apps", "completions/stream": { "href": "http://localhost:9393/completions/stream{?start,detailLevel}", "templated": true }, "completions/task": { "href": "http://localhost:9393/completions/task{?start,detailLevel}", "templated": true } } }
```

# 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-1.1.2.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:
    - i. `cd c:\dataflow`
  - b. Start the Spring Cloud Data Flow shell by executing:
    - i. `java -jar  
spring-cloud-dataflow-shell-1.1.2.RELEASE.jar`
  - c. Once started the last you should see the following:

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

- d. Now let's just kick the tires a bit and verify that we do not have any streams available. From the shell type:
  - iii. `stream list`
  - iv. `<hit return>`
  - v. We should see the following returned:

| Stream Name | Stream Definition | Status |
|-------------|-------------------|--------|
|-------------|-------------------|--------|

## 5. View the Spring Cloud Data Flow UI

- a. Open your favorite browser and enter the following url:
  - i. <http://localhost:9393/dashboard>
  - ii. And you should see the following:

The screenshot shows the Spring Cloud Data Flow UI dashboard. At the top is a navigation bar with the Spring logo and tabs for APPS, RUNTIME, STREAMS, TASKS, JOBS, ANALYTICS, and ABOUT. The 'APPS' tab is selected. Below the navigation bar, the page title is 'Apps'. A subtitle reads: 'This section lists all the available applications and provides the control to register/unregister them (if applicable).' Below this, there is a section titled 'All Applications' with three buttons: '+ Register Application(s)', 'Unregister Application(s)', and 'Bulk Import Applications'. At the bottom, there is a table header with columns: Name, Type, URI, and Actions. A checkbox is visible next to the 'Name' header.

6. Now let's view the boot actuator endpoints available to us as well as those provided by Spring Cloud DataFlow.
  - a. From your favorite browser and enter the following url:
    - i. <http://localhost:9393>
    - ii. And you should see the following:

```
{
 "links": {
 "dashboard": {
 "href": "/dashboard",
 "templated": true
 },
 "streams/definitions": {
 "href": "http://localhost:9393/streams/definitions/{name}",
 "templated": true
 },
 "streams/definitions/definition": {
 "href": "http://localhost:9393/streams/definitions/{name}",
 "templated": true
 },
 "streams/deployments": {
 "href": "http://localhost:9393/streams/deployments/{name}",
 "templated": true
 },
 "streams/deployments/deployment": {
 "href": "http://localhost:9393/streams/deployments/{name}",
 "templated": true
 },
 "runtime/apps": {
 "href": "http://localhost:9393/runtime/apps/{appId}",
 "templated": true
 },
 "runtime/apps/app": {
 "href": "http://localhost:9393/runtime/apps/{appId}/instances",
 "templated": true
 },
 "runtime/apps/instances": {
 "href": "http://localhost:9393/runtime/apps/{appId}/instances/{instanceId}",
 "templated": true
 },
 "tasks/definitions": {
 "href": "http://localhost:9393/tasks/definitions/{name}",
 "templated": true
 },
 "tasks/definitions/definition": {
 "href": "http://localhost:9393/tasks/definitions/{name}",
 "templated": true
 },
 "tasks/deployments": {
 "href": "http://localhost:9393/tasks/deployments/{name}",
 "templated": true
 },
 "tasks/deployments/deployment": {
 "href": "http://localhost:9393/tasks/deployments/{name}",
 "templated": true
 },
 "tasks/executions": {
 "href": "http://localhost:9393/tasks/executions/{name}",
 "templated": true
 },
 "tasks/executions/name": {
 "href": "http://localhost:9393/tasks/executions/{name}",
 "templated": true
 },
 "jobs/executions": {
 "href": "http://localhost:9393/jobs/executions/{id}",
 "templated": true
 },
 "jobs/executions/name": {
 "href": "http://localhost:9393/jobs/executions/{id}",
 "templated": true
 },
 "jobs/executions/execution": {
 "href": "http://localhost:9393/jobs/executions/{id}/steps/{stepId}",
 "templated": true
 },
 "jobs/executions/execution/steps": {
 "href": "http://localhost:9393/jobs/executions/{id}/steps/{stepId}/steps/{stepId}/progress",
 "templated": true
 },
 "jobs/executions/execution/steps/step": {
 "href": "http://localhost:9393/jobs/executions/{id}/steps/{stepId}/steps/{stepId}/steps/{stepId}/progress",
 "templated": true
 },
 "jobs/executions/execution/steps/step/progress": {
 "href": "http://localhost:9393/jobs/executions/{id}/steps/{stepId}/steps/{stepId}/steps/{stepId}/progress",
 "templated": true
 },
 "jobs/instances": {
 "href": "http://localhost:9393/jobs/instances/{name}",
 "templated": true
 },
 "jobs/instances/instance": {
 "href": "http://localhost:9393/jobs/instances/{name}",
 "templated": true
 },
 "counters": {
 "href": "http://localhost:9393/metrics/counters/{name}",
 "templated": true
 },
 "counters/counter": {
 "href": "http://localhost:9393/metrics/counters/{name}",
 "templated": true
 },
 "field-value-counters": {
 "href": "http://localhost:9393/metrics/field-value-counters/{name}",
 "templated": true
 },
 "field-value-counters/counter": {
 "href": "http://localhost:9393/metrics/field-value-counters/{name}",
 "templated": true
 },
 "aggregate-counters": {
 "href": "http://localhost:9393/metrics/aggregate-counters/{name}",
 "templated": true
 },
 "aggregate-counters/counter": {
 "href": "http://localhost:9393/metrics/aggregate-counters/{name}",
 "templated": true
 },
 "completions/stream": {
 "href": "http://localhost:9393/completions/stream/{start,detailLevel}",
 "templated": true
 },
 "completions/task": {
 "href": "http://localhost:9393/completions/task/{start,detailLevel}",
 "templated": true
 }
 }
}
```