

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. From your browser download Spring Cloud Data Flow Server jar file from [here](#)
 - e. Copy the downloaded spring-cloud-dataflow-server-local-1.1.2.RELEASE.jar file to the `/Users/<your home directory>/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 spring-cloud-dataflow-shell-1.1.2.RELEASE.jar file to the `/Users/<your home directory>/dataflow` directory.
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

- 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
Stream 1	Definition 1	Active
Stream 2	Definition 2	Inactive
Stream 3	Definition 3	Pending

- 

APPS

RUNTIME

STREAMS

TASKS

JOBS

ANALYTICS

ABOUT

Apps

This section lists all the available applications and provides the control to register/unregister them (if applicable).

All Applications

+ Register Application(s)

 **Unregister Application(s)**

Bulk Import Applications

☒

Name

Type

URI

Actions

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/{name}", "templated": true}, "tasks/executions/execution": {"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 spring-cloud-dataflow-server-local-1.1.2.RELEASE.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 spring-cloud-dataflow-shell-1.1.2.RELEASE.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:

The logo for Spring Cloud Data Flow is displayed in a stylized, blocky font. The word "Spring" is on the top line, "Cloud" is on the second line, and "Data Flow" is on the third line. The letters are composed of various geometric shapes like rectangles and triangles, giving it a digital or architectural feel. The entire logo is rendered in white against a black background.

```
1.2.0.BUILD-SNAPSHOT
```

```
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:

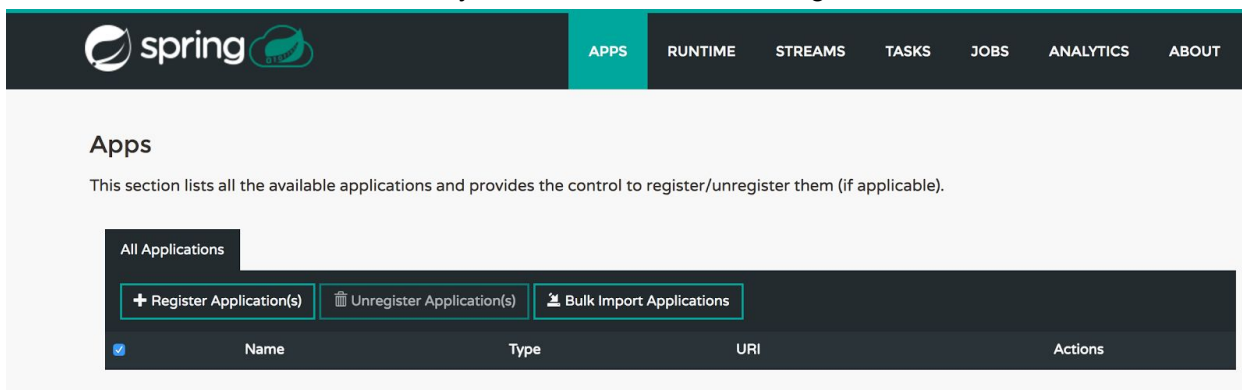
Stream Name	Stream Definition	Status
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5. View the Spring Cloud Data Flow UI

- 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",
      "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/{name}",
      "templated": true
    },
    "jobs/executions/name": {
      "href": "http://localhost:9393/jobs/executions/{name}",
      "templated": true
    },
    "jobs/executions/execution": {
      "href": "http://localhost:9393/jobs/executions/{name}/execution/{id}",
      "templated": true
    },
    "jobs/executions/execution/steps": {
      "href": "http://localhost:9393/jobs/executions/{name}/execution/{id}/steps/{stepId}",
      "templated": true
    },
    "jobs/executions/execution/steps/step": {
      "href": "http://localhost:9393/jobs/executions/{name}/execution/{id}/steps/{stepId}/step/{stepId}",
      "templated": true
    },
    "jobs/executions/execution/steps/step/progress": {
      "href": "http://localhost:9393/jobs/executions/{name}/execution/{id}/steps/{stepId}/step/{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}/instance/{id}",
      "templated": true
    },
    "counters": {
      "href": "http://localhost:9393/metrics/counters/{name}",
      "templated": true
    },
    "counters/counter": {
      "href": "http://localhost:9393/metrics/counters/{name}/counter/{id}",
      "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}/counter/{id}",
      "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}/counter/{id}",
      "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
    }
  }
}
```