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:

```
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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:>
```
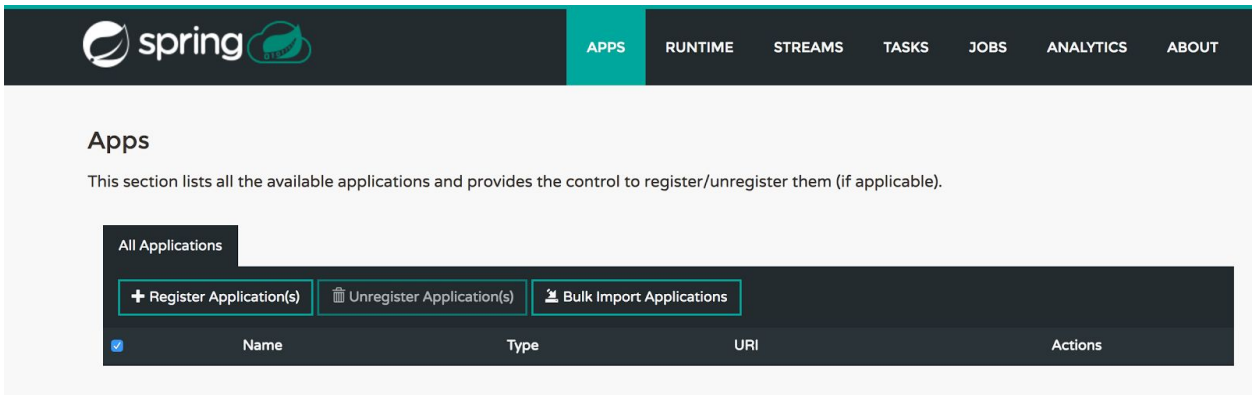

c. Now let's just kick the tires a bit and verify that we do not have any streams available. From the shell type:
   i. `stream list`
   ii. <hit return>
   iii. We should see the following returned:

```
╔═══════════╤═════════════════╤══════╗
║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:

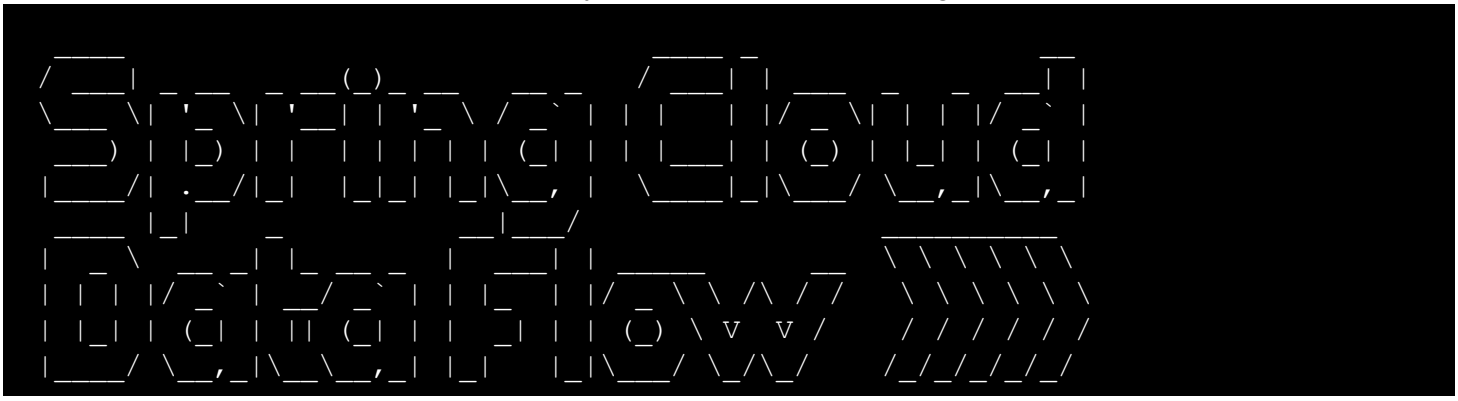
{"_links":{"dashboard":{"href":"/dashboard"},"streams/definitions":{"href":"http://localhost:9393/streams/definitions"},"streams/definitions/definition":
{"href":"http://localhost:9393/streams/definitions/{name}","templated":true},"streams/deployments":
{"href":"http://localhost:9393/streams/deployments"},"streams/deployments/deployment":
{"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{?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:

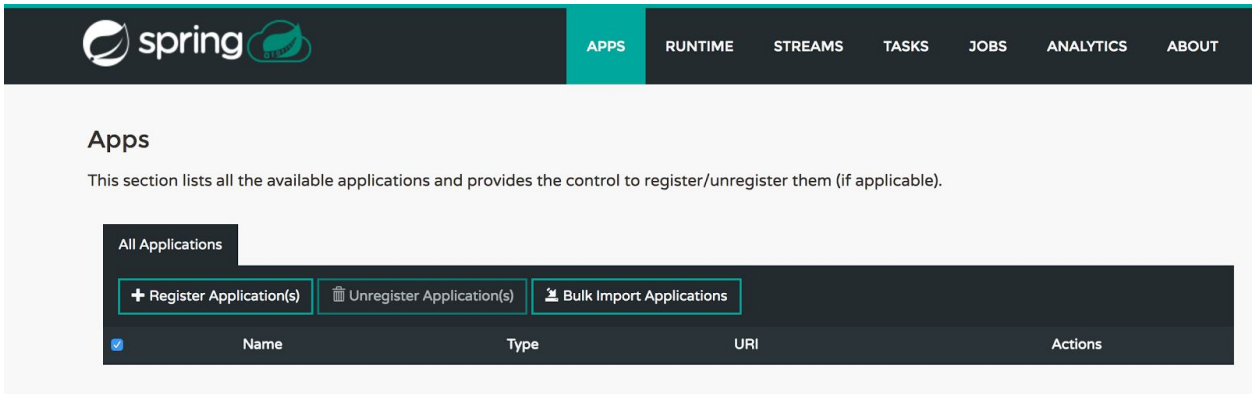


```
1.2.0.BUILD-SNAPSHOT

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║
╚═══════════╧═══════════════════╧══════╝
```

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{?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}}}