Continuuity Reactor Purchase Example Using REST

Exercise Objectives

In this exercise, you will:

- Run the Continuuity Reactor *Purchase* Example, using shell scripts
- Run an application that uses scheduled MapReduce Workflows to read from one `ObjectStore` DataSet and write to another
- Use shell commands to install Applications and interact with Reactor

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Purchase Example and Steps

- Install the Purchase Application using the shell scripts in the example in a running Reactor
- Send sentences of the form "Tom bought 5 apples for $10" to the purchaseStream using `curl`
- The PurchaseFlow reads the purchaseStream and converts every input String into a Purchase object and stores the object in the purchases DataSet
- When scheduled by the PurchaseHistoryWorkflow, the PurchaseHistoryBuilder MapReduce Job reads the purchases DataSet, creates a purchase history, and stores the purchase history in the history DataSet every morning at 4:00 A.M.
- Manually (in the Process screen in the Reactor Dashboard) execute the PurchaseHistoryBuilder MapReduce job to store customers' purchase history in the history DataSet.
- Execute the PurchaseQuery procedure using `curl` to query the history DataSet and discover the purchase history of each customer

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Purchase Example Hints

The Purchase Application is located in `/examples/Purchase`

Shell script for installing it is located in `/examples/Purchase/bin`

Send sentences using

```
curl -X POST -d "Tom bought 5 apples for $10" \
  http://localhost:10000/v2/streams/purchaseStream
```

Execute the PurchaseQuery procedure using

```
curl -v -d '{"customer": "Tom"}' -X POST \
  '<base-url>/PurchaseHistory/procedures/PurchaseQuery/methods/history'
```

where `<base-url>` is

```
http://localhost:10000/v2/apps
```

Exercise Summary

You are now able to:

- Install pre-compiled Applications using a shell script
- Interact with the Reactor with curl
- Send events to a stream
- Receiving data from queries

Exercise Completed

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