Lab 5: Application Logs

Description: This lab reviews the unique approach Platform as a Service (PaaS) brings to application logs. A major benefit of PaaS is aggregation of log output. In this lab we’ll review the logs of our previously deployed application.

1. Let’s start with the very common practice of tailing a log. The output of this command shows log entries aggregated into stream. A quick review of the different [log entries](http://docs.gopivotal.com/pivotalcf/devguide/deploy-apps/streaming-logs.html) and the content of each message

**2014-09-19T13:43:15.02-0700 [App/0]** OUT

**2014-09-19T13:43:15.02-0700 [App/0]** OUT > PaaS-Workshop@0.0.1 start /home/vcap/app

**2014-09-19T13:43:15.02-0700 [App/0]** OUT > node Index.js

**2014-09-19T13:43:15.28-0700 [App/0]** OUT mongo: [object Object]

**2014-09-19T13:43:15.28-0700 [App/0]** OUT mongourl: mongodb://ds049898.mongolab.com:49898/CloudFoundry\_ri5de6se\_mu7oe30a

**2014-09-19T13:43:15.28-0700 [App/0]** OUT mongo.hostname: ds049898.mongolab.com

**2014-09-19T13:43:15.28-0700 [App/0]** OUT mongo.port: **49898**

**2014-09-19T13:43:15.31-0700 [App/0]** OUT Express server listening on port **61477**

**2014-09-19T13:43:15.33-0700 [App/0]** OUT Setting mongohandle db to: undefined

**2014-09-19T13:43:15.34-0700 [App/0]** OUT Connected to database

**2014-09-19T13:43:15.34-0700 [App/0]** OUT Setting db to CloudFoundry\_ri5de6se\_mu7oe30a

**2014-09-19T13:43:15.48-0700 [App/0]** OUT Authenticated

**2014-09-19T13:43:15.49-0700 [App/0]** OUT Authenticated

**2014-09-19T13:43:16.96-0700 [App/1]** OUT

**2014-09-19T13:43:16.96-0700 [App/1]** OUT > PaaS-Workshop@0.0.1 start /home/vcap/app

**2014-09-19T13:43:16.96-0700 [App/1]** OUT > node Index.js

**2014-09-19T13:43:17.26-0700 [App/1]** OUT mongo: [object Object]

**2014-09-19T13:43:17.26-0700 [App/1]** OUT mongourl: mongodb://ds049898.mongolab.com:49898/CloudFoundry\_ri5de6se\_mu7oe30a

**2014-09-19T13:43:17.26-0700 [App/1]** OUT mongo.hostname: ds049898.mongolab.com

**2014-09-19T13:43:17.26-0700 [App/1]** OUT mongo.port: 49898

**2014-09-19T13:43:17.30-0700 [App/1]** OUT Express server listening on port **63487**

**2014-09-19T13:43:17.37-0700 [App/1]** OUT Connected to database

**2014-09-19T13:43:17.37-0700 [App/1]** OUT Setting db to CloudFoundry\_ri5de6se\_mu7oe30a

**2014-09-19T13:43:17.37-0700 [App/1]** OUT Setting mongohandle db to: undefined

**2014-09-19T13:43:17.56-0700 [App/1]** OUT Authenticated

**2014-09-19T13:43:17.56-0700 [App/1]** OUT Authenticated

*cf logs cf-workshop-node-userX*

1. Many times we are just interested in the latest log entries, we can issue this command to narrow our review

*cf logs cf-workshop-node-userX –recent*

If you started with two instances you’ll notice that the logs identify two express instances with their own ports assigned.

1. A simple way to filter the log entries. If you don’t see any output then the only entries must be RTR – Router entries.

*cf logs cf-workshop-node-userX | grep –v RTR*