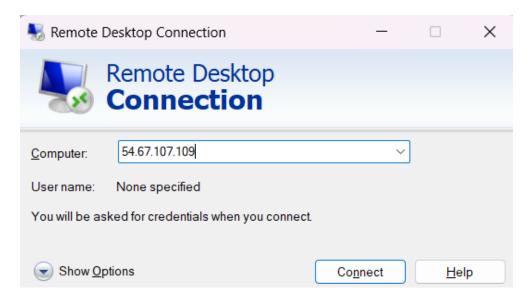
## Apache Flink Getting Started

### Experiment 1: Hello World

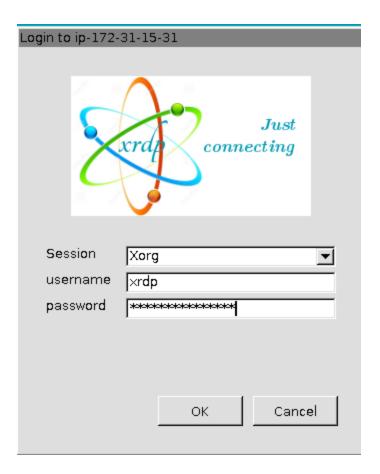
#### 1.1 Steps to run your first Flink Program

- 1.1.1 Browse to the GitHub repo that you cloned. This should be cloned to your Windows Jump Box and the Flink Development Server https://github.com/GeorgeNiece/flink-data-processing-2day
- 1.1.2 From a command prompt on your jumpbox machine SSH to the Unbuntu server ssh -o ServerAliveInterval=180 -o ServerAliveCountMax=2 -i ansible.pem ubuntu@ip address provided
- 1.1.4 Change to the flink folder, verify Flink isn't started, start the Flink dev cluster, and verify that it started

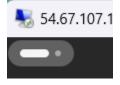
ps -ef | grep flink cd ~/flink-2.0.0 ./bin/start-cluster.sh ps -ef | grep flink



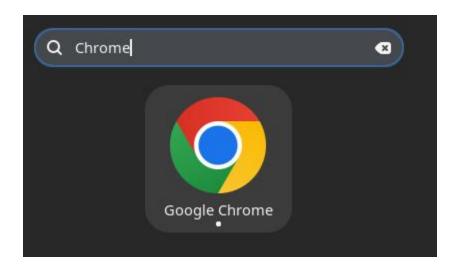
1.1.5 Login to the ubuntu dev sandbox using Windows RDP with the xrdp user and the password that you set in Step 1.14



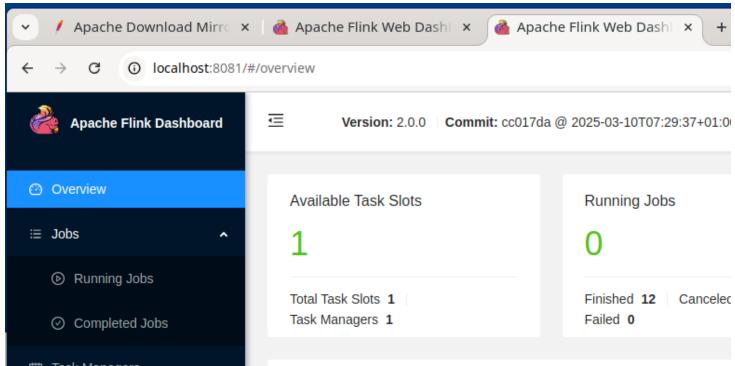
1.1.6 Click the Activities button in the top left corner of the Ubuntu Desktop



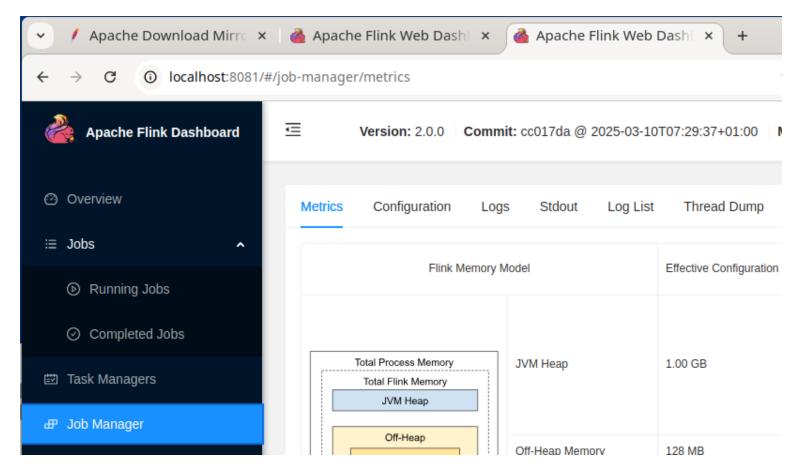
1.1.7 Wait for the Search Box at the top of the Ubuntu Desktop, and enter Chrome, click on the Launch Logo



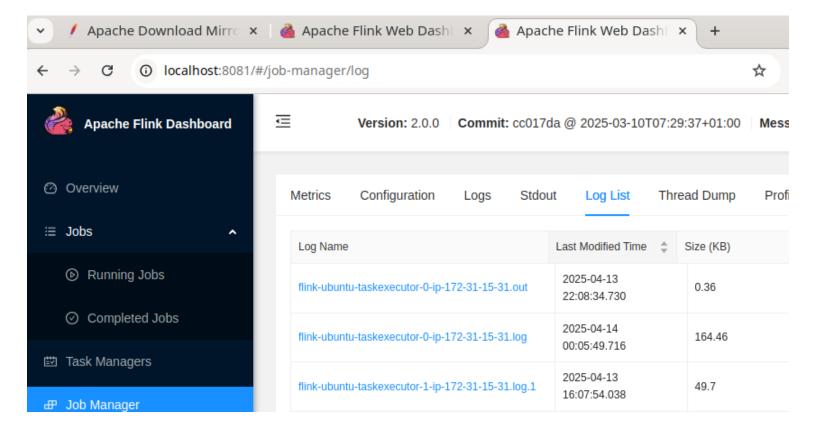
1.1.8 Load the Flink Web UI at localhost:8081



1.1.9 Click the Job Manager in the left hand navigation



1.1.10 Select Log List in the page navigation. These are the logs we'll monitor while we're running some of our experiments

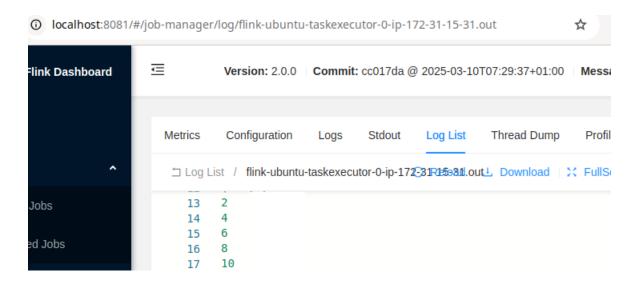


- 1.1.11 The first flink-ubuntu-taskexecutor\*.out file will be the one we spend the most time looking at. Select that so that we can view there. We could open two browser tabs and watch the Jobs -> Running Jobs page while we run our first experiment.
- 1.1.12 Navigate back to the SSH terminal to the flink distribution folder

# cd ~/flink-2.0.0 ./bin/flink run ~/flink-data-processing-2day/experiments/built/HelloWorld.jar

This should show us with the Job submission, Program execution finished, JobID and the Job Runtime

View the first flink-ubuntu-taskexecutor\*.out



## 1.1.13 Congratulations, time to celebrate you ran your

first Flink program in our session