## Assignment 1 Jingyi Ding 69364001

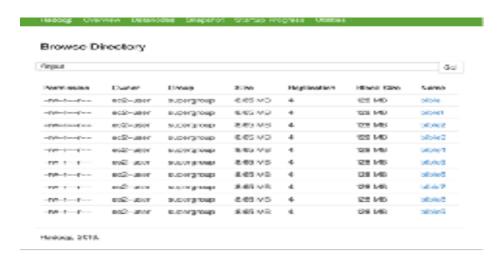
Codes and outputs in https://github.com/dingjy94/EEL6761\_Cloud\_Computing 1. Some aws steps:



3 aws sc2 instances, one for namenode, two for datanodes;



2 datanode in operation when hdfs started;



10 bibles (input files).

2. part1



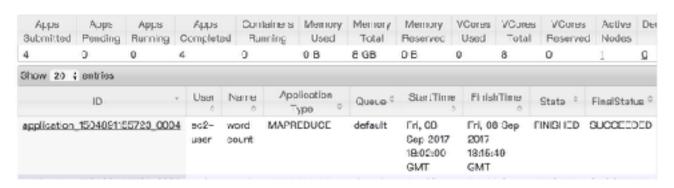
Show 20 \$ antries			Search:		
Attempt ID	Started	Node	Logs	Blacklisted Nodes	
appartempt_1504755544562_0002_000002	Thu, 07 Sep 2017 03:49:42 GMT	http://p-172-31-27-19.us-east- 2.compute.internal:8042	Logs	0	
sppattempt 1504755544562 0002 000001	Thu, 07 Sep 2017 03:48:25 SMT	http://p-172-31-30-56.us-sest- 2.compute.internal:8042	Lcgs	0	
Showing 1 to 2 of 2 entries				First	
				Previous I Next Last	

The code is just similar to Hadoop's sample WordCount.

#### 3. part2

My solution is sample, just use two StringTokenizer to read the input file, one StringTokenizer is one word faster than another. Thus, we can easily get double words key by combine these two StringTokenizer.





## رواعات

# Application application\_1504891155723\_0004

Kill Application	
	Application Overview
Uson	oc2 ucor
Names	word count
Application Type:	MAPRELUCE
Application Tags:	
YamApplicationStates	FINISHED
FinalStatus Reported by AM:	SUCCEEDED
Stanteck	8-8ep-2017 *8:02:00
Elapaed	10mms, 48sec
Tracking URL:	Hetory
Diagnostics	

### 4. part3

The program get three arguments, input, output and word-pattern file's paths instead of only two arguments. Then, add word-pattern into local cache. In mapper class, when setup the map, read the local file and turns it to HashSet. Then, map method is still similier to WordCount, but only write the word contained in HashSet

Apps Submitted	Augus Panding	Auus Running	Apps Complet		lainers nning	Ventary	Memory Total	Nemary Reserved	VCores Used	VCores	VCures Reserved	Active Nodes	Decormits Node
1	0	0	1	U		0.8	24 GB	0.B	0	8	0	1	0
3how 20 2	entries												
	D		- User	Name		leation ype *	Queue :	StartTime	Γinish	Time	Stoto 5	FinalState	us = Prog
application	15054260	97431 CO	user user	word	MAPR	EDUCE	default	Thu, 14 Sep 2017 21 55:11 GMT	Тhц, 1 2017 22:08 GMI		FINISHED (	SUCCEE	000
Showing 1 b	o 1 of 1 an	trioa											
KIII Applic	atlon												
											Applica	tion Ov	erview
							User:	ec2-user					
							Name:	word cou	nt				

		Application Overview
User:	ec2-user	
Name:	word count	
Application Type:	MAPREDUCE	
Application Taga:		
YarnApplicationState:	FINISHED	
FinalStatus Reported by AM:	SUCCEEDED	
Started:	14-Sep-2017 21:55:11	
Elapsed:	13mins, 37sec	
Tracking URL:	History	
Diagnostics:		

	Application Metrics
Total Resource Preempted: <memory:0, vcores:0=""></memory:0,>	
Total Months of No. 111 Contains December 1	