**Modified/Adapted from:**

**http://blog.thedigitalgroup.com/susheelk/2015/08/03/solrcloud-2-nodes-solr-1-node-zk-setup/**

**Setup zookeeper on Node 1/ Machine 1**

1. Download Zookeeper and extract on Node 1 / machine 1 under a directory say solr.
2. Let’s first setup Zookeeper. Go inside <ZK\_HOME>/conf directory
3. Make a copy of zoo\_sample.cfg & rename to zoo.cfg (or mv zoo\_sample.cfg to zoo.cfg)
4. Edit zoo.cfg and modify data\_dir parameter to a directory location where you would like Zookeeper to store its data (Similar to below where created data directory under conf for simplicity dataDir=<ZK\_HOME>/conf/data

(I’m using default /tmp/zookeeper, mkdir this directory first, but I’m using port 2582)

1. Now start Zookeeper with command ./bin/zkServer.sh start

**Solr Setup on Node 1 / Machine 1**

1. Download solr-5.x.x & extract under directory  solrcloud as shown above
2. Now lets create solr home directory for our setup. You can choose any location but in below example i am using solr5.x.x/server/solr/node1/solr/.
3. Copy default zoo.cfg & solr.xml from solr5.x.x/server/solr to solr5.x.x/server/solr/node1/solr/
4. Now lets start Solr using below command (basically you want to start in cloud mode with Zookeeper)
   * ./bin/solr start -cloud -s solr-5.x.x/server/solr/node1/solr  -p 8983 -z localhost:2181 -m 2g (-m is for memory increase for more)

**Same steps for Node 2 / Machine 2 but we need to point to node 1 for zookeeper location**

./bin/solr start -cloud -s solr-5.x.x/server/solr/node1/solr  -p 8983 -z <Node1 IP>:2181 -m 2g

**Steps to create a collection based on your schema**

1. go to <SOLR\_HOME>/server/solr/configsets/\_default/conf on Node1 (or Node2)
2. edit the managed schema with your modifications (after backing up old schema)

(or you can create a new configset and use that for collection)

1. <SOLR\_HOME>/bin/solr create -c hashtagtrend -s 2 -rf 2 (s is number of shard and rf is replication factor, it uses \_default configset, this would be used in zk)

**Posting Documents from Node1 (or Node2)**

Note: Schema must have the field types on first row

<SOLR\_HOME>/bin/post -c hashtagtrend <path to csv>

**Status on two nodes**

cbaruah@bn17-34:~/DIC/solr/solr-7.1.0/bin$ ./solr status

Found 1 Solr nodes:

Solr process 89521 running on port 8983

{

"solr\_home":"/home/cbaruah/DIC/solr/solr-7.1.0/server/solr/node1/solr",

"version":"7.1.0 84c90ad2c0218156c840e19a64d72b8a38550659 - ubuntu - 2017-10-13 16:15:59",

"startTime":"2017-12-03T22:41:09.360Z",

"uptime":"0 days, 1 hours, 6 minutes, 4 seconds",

"memory":"94.6 MB (%19.3) of 490.7 MB",

"cloud":{

"ZooKeeper":"localhost:2582",

"liveNodes":"2",

"collections":"1"}}

cbaruah@bn17-34:~/DIC/solr/solr-7.1.0/bin$

cbaruah@bn17-34:~/DIC/solr/solr-7.1.0/bin$

cbaruah@bn17-34:~/DIC/solr/solr-7.1.0/bin$ ssh slave03

Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 3.13.0-86-generic x86\_64)

\* Documentation: https://help.ubuntu.com/

153 packages can be updated.

125 updates are security updates.

New release '16.04.3 LTS' available.

Run 'do-release-upgrade' to upgrade to it.

Last login: Sun Dec 3 18:22:27 2017 from 152.46.19.126

groups: cannot find name for group ID 1104943230

cbaruah@bn18-227:~$

cbaruah@bn18-227:~$

cbaruah@bn18-227:~$ cd DIC/solr/solr-7.1.0/bin/

cbaruah@bn18-227:~/DIC/solr/solr-7.1.0/bin$

cbaruah@bn18-227:~/DIC/solr/solr-7.1.0/bin$

cbaruah@bn18-227:~/DIC/solr/solr-7.1.0/bin$ ./solr status

Found 1 Solr nodes:

Solr process 31585 running on port 8983

{

"solr\_home":"/home/cbaruah/DIC/solr/solr-7.1.0/server/solr/node2/solr",

"version":"7.1.0 84c90ad2c0218156c840e19a64d72b8a38550659 - ubuntu - 2017-10-13 16:15:59",

"startTime":"2017-12-03T22:44:59.224Z",

"uptime":"0 days, 1 hours, 2 minutes, 16 seconds",

"memory":"67.5 MB (%13.8) of 490.7 MB",

"cloud":{

"ZooKeeper":"slave04:2582",

"liveNodes":"2",

"collections":"1"}}