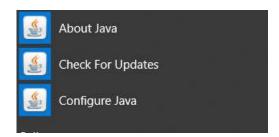
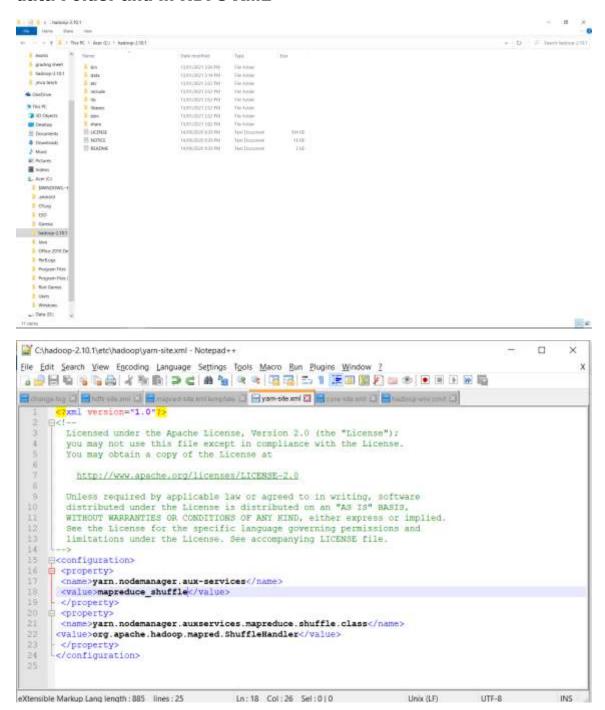
Installing Hadoop and how HDFS architecture (NameNode and DataNode) Works.

First, I downloaded Java





And then I Installed Hadoop (Configuring codes in some of Hadoop XML files: core,mapred,yarn,hdfs,Hadoop env. Codes source from Web) and I created Name Node and Data Node in data Folder and in HDFS XML



CMD CONFIGURE

Checking the Java if it's already installed (Checking the Java Version)

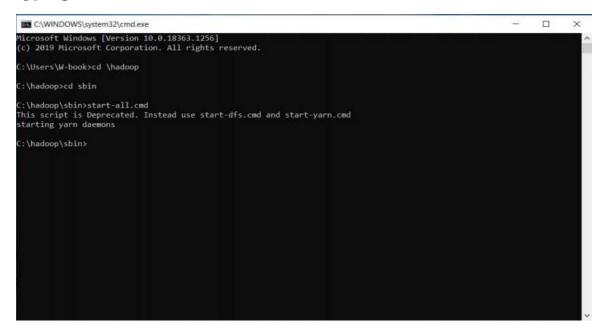
```
Moreover Sample (Persian 10.8 SANS. SANS.
```

Configuring and Creating Namenode (by typing "hdfs name node - format")

```
STARTUP MSG: java = 1.8.0 271

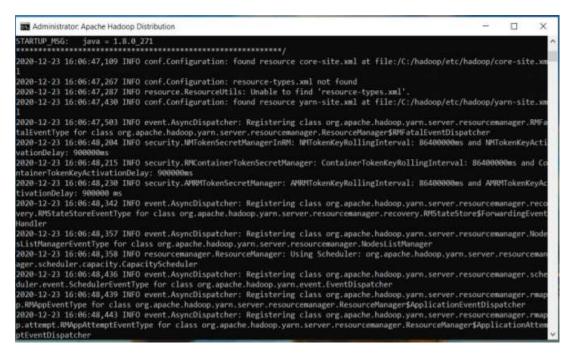
2020-12-23 16:06:45,316 INFO namenode.NameNode: createNameNode []
2020-12-23 16:06:45,316 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).
2020-12-23 16:06:46,356 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).
2020-12-23 16:06:46,358 INFO namenode.NameNode!tlis: fs.defaultFS is hdfs://localhost:9000
2020-12-23 16:06:46,767 INFO impl.MetricsSystemImpl: NameNode!tris: system started
2020-12-23 16:06:46,767 INFO namenode.NameNode!tlis: fs.defaultFS is hdfs://localhost:9000
2020-12-23 16:06:47,124 INFO util.JumPauseNomitor: Starting JUM pause monitor
2020-12-23 16:06:47,124 INFO util.Jug: Logging initialized @413Ims to org.cclipse.jetty.util.log.Slfdjiog
2020-12-23 16:06:47,636 INFO server.AuthenticationFilter: Unable to initialize FileSignerSecretProvider, falling back to use rando m secrets.
2020-12-23 16:06:48,084 INFO http.HttpServer2: Added global filter 'safety' (class-org.apache.hadoop.http.HttpServer25QuotingInput Filter)
2020-12-23 16:06:48,072 INFO http.HttpServer2: Added filter static_user_filter (class-org.apache.hadoop.http.lib.StaticUserNebFilt er$StaticUserFilter) to context hdfs
2020-12-23 16:06:48,074 INFO http.HttpServer2: Added filter static_user_filter (class-org.apache.hadoop.http.lib.StaticUserNebFilt er$StaticUserFilter) to context logs
2020-12-23 16:06:48,071 INFO http.HttpServer2: Added filter static_user_filter (class-org.apache.hadoop.http.lib.StaticUserNebFilt er$StaticUserFilter) to context logs
2020-12-23 16:06:48,071 INFO http.HttpServer2: Added filter 'org.apache.hadoop.hdfs.web.AuthFilter)
2020-12-23 16:06:48,071 INFO http.HttpServer2: Added filter 'org.apache.hadoop.hdfs.web.AuthFilter' (class-org.apache.hadoop.hdfs.server.namenode.web.re
2020-12-23 16:06:48,20
```

After creating Name Node starting all cmd in Hadoop sbin by typing "start-all.cmd"

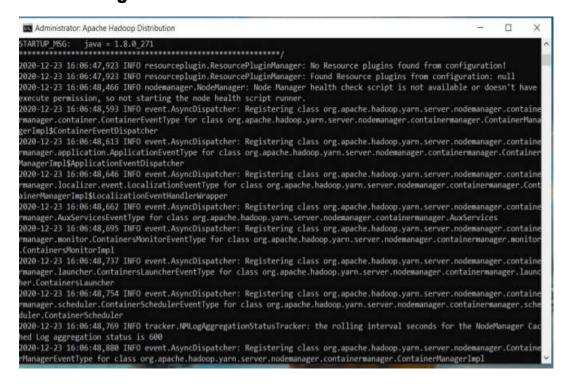


To show and start the Data Node

Resource Manager



Node Manager



So, by checking the localhost http://localhost:9870/ you must not closed all the application nodes so that it won't interrupted.



Finally this will came out and it determines that you downloaded it successfully.

