When try to copy a file to HDFS via the mount point it fails with "Input/output error"

[root@hdm1 ~]# cp install.log /hdfs/tmp/

cp: cannot create regular file `/hdfs/tmp/install.log': Input/output error

The REASON IS:

**The following error messages is observed in the nfs3 daemon log file**

18/01/22 20:23:58 WARN nfs3.RpcProgramNfs3: Exception  
org.apache.hadoop.ipc.RemoteException(java.io.IOException): Access time for hdfs is not configured. Please set dfs.namenode.accesstime.precision configuration parameter.  
 at org.apache.hadoop.hdfs.server.namenode.FSNamesystem.setTimes(FSNamesystem.java:1908)  
 at org.apache.hadoop.hdfs.server.namenode.NameNodeRpcServer.setTimes(NameNodeRpcServer.java:920)  
 at org.apache.hadoop.hdfs.protocolPB.ClientNamenodeProtocolServerSideTranslatorPB.setTimes(ClientNamenodeProtocolServerSideTranslatorPB.java:811)  
 at org.apache.hadoop.hdfs.protocol.proto.ClientNamenodeProtocolProtos$ClientNamenodeProtocol$2.callBlockingMethod(ClientNamenodeProtocolProtos.java:63071)  
 at org.apache.hadoop.ipc.ProtobufRpcEngine$Server$ProtoBufRpcInvoker.call(ProtobufRpcEngine.java:585)  
 at org.apache.hadoop.ipc.RPC$Server.call(RPC.java:928)  
 at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:2048)  
 at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:2044)  
 at java.security.AccessController.doPrivileged(Native Method)  
 at javax.security.auth.Subject.doAs(Subject.java:415)  
 at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1491)  
 at org.apache.hadoop.ipc.Server$Handler.run(Server.java:2042)

The error message indicates that configuration parameter dfs.namenode.accesstime.precision is missed or set to zero. This means the client mounts the export with access time update allowed, but the feature is disabled in the configuration file

SOLUTION:

Add property dfs.namenode.accesstime.precision to configuration file hdfs-site.xml on NameNode as illustrated below

<property>  
  <name>dfs.namenode.accesstime.precision</name>  
  <value>3600000</value>  
  <description>The access time for HDFS file is precise upto this value.   
    The default value is 1 hour. Setting a value of 0 disables  
    access times for HDFS.  
  </description>  
</property>

NOTE: this property should be added to both NameNodes if High Availability is enabled. Restart of NameNode is needed to take the change into effect.