



链滴

通过 JAVA API 远程操作 HDFS 文件系统工具类

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来源网站: 链滴

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String line;<br>
StringBuffer stringBuffer = new StringBuffer();<br>
while ((line = br.readLine()) != null) {<br>
stringBuffer.append(line);<br>
stringBuffer.append("\r\n");<br>
}<br>
return stringBuffer.toString();<br>
// IOUtils.copyBytes(in, System.out, 4096, false);<br>
} finally {<br>
IOUtils.closeStream(in);<br>
}<br>
}</li>
</ul>
<p>/**</p>
<ul>
<li>
<p>@ author: houwenjie</p>
</li>
<li>
<p>@ date: 2018/9/8 11:21</p>
</li>
<li>
<p>@ Description: 将文件上传到 hdfs 上传路径需要指定文件名<br>
*/<br>
public static void copyFileToHDFS(File file, String HDFSPath) throws IOException, InterruptedE
ception {</p>
<p>Path path = new Path(HDFSPath);<br>
fs = path.getFileSystem(conf);</p>
<p>InputStream in = new BufferedInputStream(new FileInputStream(file));<br>
OutputStream out = fs.create(new Path(HDFSPath));<br>
IOUtils.copyBytes(in, out, 4096, true);<br>
in.close();<br>
}</p>
</li>
</ul>
<p>/**</p>
<ul>
<li>获取 hdfs 路径下的文件列表</li>
<li></li>
<li>@param srcpath</li>
<li>@return<br>
*/<br>
public static List getFileList(String srcpath) throws IOException {<br>
Path path = new Path(srcpath);<br>
fs = path.getFileSystem(conf);<br>
Date date2 = new Date();<br>
SimpleDateFormat simpleDateFormat = new SimpleDateFormat("yyyy/MM/dd HH:mm:ss");//
4 小时制<br>
List files = new ArrayList();<br>
HDFSFileEntity hdfsFileEntity = null;<br>
if (fs.exists(path) && fs.isDirectory(path)) {<br>
for (FileStatus status : fs.listStatus(path)) {<br>
hdfsFileEntity= new HDFSFileEntity();<br>
// String s=(status.isDirectory() ? "d" : "-")+status.getPermission()+","+status.getLen(

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+"," +simpleDateFormat.format(date2)+"," +status.getPath();<br>
hdfsFileEntity.setPermission((status.isDirectory() ? "d" : "-")+status.getPermission());<br>
hdfsFileEntity.setSize(status.getLen());<br>
hdfsFileEntity.setModification_time(simpleDateFormat.format(date2));<br>
hdfsFileEntity.setPath(status.getPath().toString());<br>
hdfsFileEntity.setBlock_replication((int)status.getReplication());<br>
hdfsFileEntity.setOwner(status.getOwner());<br>
hdfsFileEntity.setGroup(status.getGroup());<br>
hdfsFileEntity.setBlocksize(status.getBlockSize());<br>
files.add(hdfsFileEntity);<br>
}<br>
}<br>
//fs.close();<br>
return files;<br>
}</li>
</ul>

<p>public static void mkdir(String path) throws IOException {<br>
Path srcPath = new Path(path);<br>
FileSystem fs = srcPath.getFileSystem(conf);<br>
boolean isok = fs.mkdirs(srcPath);<br>
if (isok) {<br>
System.out.println("create dir ok!");<br>
} else {<br>
System.out.println("create dir failure");<br>
}<br>
//fs.close();<br>
}<br>
/**<br>
*</p>
<ul>
<li>
<p>@ return:</p>
</li>
<li>
<p>@ auther: houwenjie</p>
</li>
<li>
<p>@ date: 2018/9/10 14:34</p>
</li>
<li>
<p>@ Description: 根据路径递归查询路径下的文件<br>
<em>/<br>
public static List getFileSystem(String srcpath,List files) throws IOException {<br>
Path path = new Path(srcpath);<br>
fs = path.getFileSystem(conf);<br>
if (fs.exists(path) && fs.isDirectory(path)) {<br>
for (FileStatus status : fs.listStatus(path)) {<br>
files.add((status.isDirectory() ? "d" : "-")+status.getPermission()+"," +status.getLen()+"," +simpleDateFormat.format(date2)+"," +status.getPath());<br>
getFileSystem(status.getPath().toString(),files);<br>
}<br>
}<br>
return files;<br>
}<br>

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/
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<p><code>HDFSFileEntity</code>实体类</p>
<pre><code class="language-java">package com.huatec.edu.cloud.hdata.core.ooziejob.utils;
<p>import org.apache.hadoop.fs.Path;</p>
<p>/**</p>
<ul>
<li>
<p>@ Auther: houwenjie</p>
</li>
<li>
<p>@ Date: 2018/10/15 14:08</p>
</li>
<li>
<p>@ Description:<br>
*/<br>
public class HDFSFileEntity {<br>
private String path;<br>
private long size;<br>
private int block_replication;<br>
private long blocksize;<br>
private String modification_time;<br>
private String permission;<br>
private String owner;<br>
private String group;</p>
<p>@Override<br>
public String toString() {<br>
return "HDFSFileEntity{" +<br>
"path=" + path + " " +<br>
", size=" + size +<br>
", block_replication=" + block_replication +<br>
", blocksize=" + blocksize +<br>
", modification_time=" + modification_time + " " +<br>
", permission=" + permission + " " +<br>
", owner=" + owner + " " +<br>
", group=" + group + " " +<br>
'}';<br>
}</p>
<p>public String getPath() {<br>
return path;<br>
}</p>
<p>public void setPath(String path) {<br>
this.path = path;<br>
}</p>
<p>public long getSize() {<br>
return size;<br>
}</p>
<p>public void setSize(long size) {<br>
this.size = size;<br>
}</p>
<p>public int getBlock_replication() {<br>
return block_replication;<br>
}</p>
<p>public void setBlock_replication(int block_replication) {<br>
this.block_replication = block_replication;<br>
}</p>

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<p>public long getBlocksize() {<br>
return blocksize;<br>
}</p>
<p>public void setBlocksize(long blocksize) {<br>
this.blocksize = blocksize;<br>
}</p>
<p>public String getModification_time() {<br>
return modification_time;<br>
}</p>
<p>public void setModification_time(String modification_time) {<br>
this.modification_time = modification_time;<br>
}</p>
<p>public String getPermission() {<br>
return permission;<br>
}</p>
<p>public void setPermission(String permission) {<br>
this.permission = permission;<br>
}</p>
<p>public String getOwner() {<br>
return owner;<br>
}</p>
<p>public void setOwner(String owner) {<br>
this.owner = owner;<br>
}</p>
<p>public String getGroup() {<br>
return group;<br>
}</p>
<p>public void setGroup(String group) {<br>
this.group = group;<br>
}<br>
}</p>
</li>
</ul>
</code><p><code class="language-java"></code></p></pre><p></p>
<p>&nbsp;</p>
<p>&nbsp;</p>
```