



黑客派

# 线上问题排查 - HBase 写数据出现 NotServingRegionException(Region ... is not online) 异常

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原文链接: <https://hacpai.com/article/1542262232782>

来源网站: 黑客派

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

<p>今天线上遇到一个问题：有一台服务器的 CPU 持续冲高，排查发现是我们的一个 Java 应用造成，该应用在向 hbase 中写入数据时，日志不断地打印下面的异常： </p>

```
<script async src="https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js"></script>
```

```
<!-- 黑客派PC帖子内嵌-展示 -->
```

```
<ins class="adsbygoogle" style="display:block" data-ad-client="ca-pub-5357405790190342" data-ad-slot="8316640078" data-ad-format="auto" data-full-width-responsive="true"></ins>
```

```
<script>
```

```
(adsbygoogle = window.adsbygoogle || []).push({});
```

```
</script>
```

```
<pre><code class="language-bash highlight-chroma">org.apache.hadoop.hbase.NotServingRegionException: Region iot_flow_cdr_201811,4379692584601-2101152593-20181115072326355,1536703383699.82804f639798d0502dd64e6e47d75d84. is not online on shqz-ps-iot3-cdr-dn01,60020,1524812940505
```

```
at org.apache.hadoop.hbase.regionserver.HRegionServer.getRegionByEncodedName<span class="highlight-o"></span>HRegionServer.java:2921<span class="highlight-o"></span>
```

```
at org.apache.hadoop.hbase.regionserver.RSRpcServices.getRegion<span class="highlight-o"></span>RSRpcServices.java:1053<span class="highlight-o"></span>
```

```
at org.apache.hadoop.hbase.regionserver.RSRpcServices.multi<span class="highlight-o"></span>RSRpcServices.java:2096<span class="highlight-o"></span>
```

```
at org.apache.hadoop.hbase.protobuf.generated.ClientProtos<span class="highlight-nv">$ClientService$2</span>.callBlockingMethod<span class="highlight-o"></span>ClientProtos.java:33656<span class="highlight-o"></span>
```

```
at org.apache.hadoop.hbase.ipc.RpcServer.call<span class="highlight-o"></span>RpcServer.java:2170<span class="highlight-o"></span>
```

```
at org.apache.hadoop.hbase.ipc.CallRunner.run<span class="highlight-o"></span>CallRunner.java:109<span class="highlight-o"></span>
```

```
at org.apache.hadoop.hbase.ipc.RpcExecutor.consumerLoop<span class="highlight-o"></span>RpcExecutor.java:133<span class="highlight-o"></span>
```

```
at org.apache.hadoop.hbase.ipc.RpcExecutor<span class="highlight-nv">$1</span>.run<span class="highlight-o"></span>RpcExecutor.java:108<span class="highlight-o"></span>
```

```
at java.lang.Thread.run<span class="highlight-o"></span>Thread.java:745<span class="highlight-o"></span>
```

```
</code></pre>
```

<p>排查思路如下： </p>

```
<ol>
```

```
<li>查看 hbase 的请求数量是否过高：通过 hbase 的 Web 控制界面查看 RegionServer 的请求数如下图<br>  <br> 可以看到，Request Per Second 不高，排除这个原因。 </li>
```

```
<li>检查表 iot_flow_cdr_201811 信息是否正常<br> (1) 检查该表是否存在一致性问题</li>
```

```
</ol>
```

```
<blockquote>
```

```
<p>hbase hbck -details iot_flow_cdr_201811</p>
```

```
</blockquote>
```

```
<p>确实发现了不一致的异常</p>
```

```
<blockquote>
```

```
<p>8 inconsistencies detected</p>
```

```
</blockquote>
```

```
<p>(2) 尝试修复该问题</p>
```

```
<blockquote>
```

```
<p>hbase hbck -repair iot_flow_cdr_201811</p>
```

```
</blockquote>
```

执行该命令出现下述错误

```
<script async src="https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js"></script>
```

```
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```

```
<ins class="adsbygoogle" style="display:block" data-ad-client="ca-pub-5357405790190342" data-ad-slot="8316640078" data-ad-format="auto" data-full-width-responsive="true"></ins>
```

```
<script>
```

```
(adsbygoogle = window.adsbygoogle || []).push({});
```

```
</script>
```

```
<pre><code class="highlight-chroma">18/11/15 11:28:15 WARN util.HBaseFsck: Got AccessDeniedException when preCheckPermission
```

```
org.apache.hadoop.hbase.security.AccessDeniedException: Permission denied: action=WRITE  
ath=hdfs://nameservice1/hbase/.hbase-snapshot user=root
```

```
at org.apache.hadoop.hbase.util.FSUtils.checkAccess(FSUtils.java:1797)
```

```
at org.apache.hadoop.hbase.util.HBaseFsck.preCheckPermission(HBaseFsck.java:1932)
```

```
at org.apache.hadoop.hbase.util.HBaseFsck.exec(HBaseFsck.java:4734)
```

```
at org.apache.hadoop.hbase.util.HBaseFsck$HBaseFsckTool.run(HBaseFsck.java:4562)
```

```
at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:70)
```

```
at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:84)
```

```
at org.apache.hadoop.hbase.util.HBaseFsck.main(HBaseFsck.java:4550)
```

```
Current user root does not have write perms to hdfs://nameservice1/hbase/.hbase-snapshot.  
lease rerun hbck as hdfs user hbase
```

```
</code></pre>
```

根据提示可以看到，错误原因是没有权限 Permission denied 然后我们以 hbase 用户身  
执行该命令

```
<blockquote>
```

```
<p>sudo - hbase hbase hbck -repair iot_flow_cdr_201811</p>
```

```
</blockquote>
```

这次执行成功了，等命令执行完成后，修复了 inconsistencies (数据不一致) 的错误。后重启应用，观察日志，程序正常执行，NotServingRegionException 异常不再出现了，服务器 CPU 也恢复了正常。