



链滴

log4j2 配置文件 log4j2.xml

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<h1 class="postTitle">聊一聊log4j2配置文件log4j2.xml</h1>

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<div class="postBody">

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<h3> <一、背景</h3>

<p>最近由于项目的需要，我们把log4j 1.x的版本全部迁移成log4j 2.x的版本，那随之而来的Slf4j整合log4j的配置（使用Slf4j集成Log4j2构建项目日志系统的完美解决方案）以及log4j2配置文件的详解，就需要我们来好好聊一聊了。本文就专门来解下log4j2.xml配置文件的各项标签的意义。</p>

<h3>二、配置全解</h3>

<p>1.关于配置文件的名称以及在项目中的存放位置</p>

<p>log4j 2.x版本不再支持像1.x中的.properties后缀的文件配置方式，2.x版本配置文件后名只能为".xml",".json"或者".jsn"。</p>

<p>系统选择配置文件的优先级(从先到后)如下：</p>

<p>(1).classpath下的名为log4j2-test.json 或者log4j2-test.jsn的文件。</p>

<p>(2).classpath下的名为log4j2-test.xml的文件。</p>

<p>(3).classpath下名为log4j2.json 或者log4j2.jsn的文件。</p>

<p>(4).classpath下名为log4j2.xml的文件。</p>

<p>我们一般默认使用log4j2.xml进行命名。如果本地要测试，可以把log4j2-test.xml放classpath，而正式环境使用log4j2.xml，则在打包部署的时候不要打包log4j2-test.xml即可。</p>

<p>2.缺省默认配置文件</p>

<div class="cnblogs_code">

```
<pre><span> 1</span> <span>&lt;?</span><span>xml version="1.0" encoding="UTF-8"<span></span><span>?&gt;</span><span></span><span> 2</span> <span>&lt;</span><span>Configuration </span><span>status</span><span>=</span><span>"WARN"</span><span>&gt;</span><span></span><span> 3</span> <span>&lt;</span><span>Appenders</span><span>&gt;</span><span></span><span> 4</span> <span>&lt;</span><span>Console </span><span>name</span><span></span><span>=</span><span>"Console"</span><span> target</span><span>=</span><span>"SYSTEM_OUT"</span><span>&gt;</span><span></span><span> 5</span> <span>&lt;</span><span>PatternLayout </span><span>pattern</span><span></span><span>=</span><span>"%d{HH:mm:ss.SSS} [%t] %-5level %logger{36} - %msg%n"</span><span>&gt;</span></span><span></span><span> 6</span> <span>&lt;</span><span>Console</span><span>&gt;</span><span></span><span> 7</span> <span>&lt;</span><span>Appenders</span><span>&gt;</span><span></span><span> 8</span> <span>&lt;</span><span>Loggers</span><span>&gt;</span><span></span><span> 9</span> <span>&lt;</span><span>Root </span><span>level</span><span></span><span>=</span><span>"error"</span><span>&gt;</span><span></span><span> 10</span> <span>&lt;</span><span>AppenderRef </span><span>ref</span><span></span><span>=</span><span>"Console"</span><span>&gt;</span><span></span><span> 11</span> <span>&lt;</span><span>Root </span><span>&gt;</span><span></span><span> 12</span> <span>&lt;</span><span>Loggers</span><span>&gt;</span><span></span><span> 13</span> <span>&lt;</span><span>Configuration</span><span>&gt;</span><span></span></pre>
```

</div>

<p>3.配置文件节点解析 </p>

<p>(1).根节点Configuration有两个属性:status和monitorinterval,有两个子节点:Appenders和Loggers(表明可以定义多个Appender和Logger)。</p>

<p>status用来指定log4j本身的打印日志的级别。</p>

<p>monitorinterval用于指定log4j自动重新配置的监测间隔时间，单位是s,最小是5s

</p>

(2).Appenders节点, 常见的有三种子节点:Console、RollingFile、File.</p>
Console节点用来定义输出到控制台的Appender.</p>
name:指定Appender的名字.</p>
target:SYSTEM_OUT 或 SYSTEM_ERR,一般只设置默认:SYSTEM_OUT.</p>
PatternLayout:输出格式, 不设置默认为:%m%n.</p>
File节点用来定义输出到指定位置的文件的Appender.</p>
name:指定Appender的名字.</p>
fileName:指定输出日志的目的文件带全路径的文件名.</p>
PatternLayout:输出格式, 不设置默认为:%m%n.</p>
RollingFile节点用来定义超过指定大小自动删除旧的创建的Appender.</p>
name:指定Appender的名字.</p>
fileName:指定输出日志的目的文件带全路径的文件名.</p>
PatternLayout:输出格式, 不设置默认为:%m%n.</p>
filePattern:指定新建日志文件的名称格式.</p>
Policies:指定滚动日志的策略, 就是什么时候进行新建日志文件输出日志.</p>
TimeBasedTriggeringPolicy:Policies子节点, 基于时间的滚动策略, interval用来指定多久滚动一次, 默认是1 hour. modulate=true用来调整时间: 比如现在是早上3am, interval是4, 那么第一次滚动是在4am, 接着是8am, 12am...而不是7am.</p>
SizeBasedTriggeringPolicy:Policies子节点, 基于指定文件大小的滚动策略, size属性用来定义每个日志文件的大小.</p>
DefaultRolloverStrategy:用来指定同一个文件夹下最多有几个日志文件时删除最旧的, 创建新的(通过max属性).</p>
(3).Loggers节点, 常见的有两种:Root和Logger.</p>
Root节点用来指定项目的根日志, 如果没有单独指定Logger, 那么就会默认使用该Root日志输出</p>
level:日志输出级别, 共有8个级别, 按照从低到高为: All & Trace & Debug & Info & Warn & Error & Fatal & OFF.</p>
AppenderRef: Root的子节点, 用来指定该日志输出到哪个Appender.</p>
Logger节点用来单独指定日志的形式, 比如要为指定包下class指定不同的日志级别等.</p>
level:日志输出级别, 共有8个级别, 按照从低到高为: All & Trace & Debug & Info & Warn & Error & Fatal & OFF.</p>
name:用来指定该Logger所适用的类或者类所在的包全路径,继承自Root节点</p>
AppenderRef: Logger的子节点, 用来指定该日志输出到哪个Appender, 如果没有指定, 就会默认继承自Root.如果指定了, 那么会在指定的这个Appender和Root的Appender都会输出, 此时我们可以设置Logger的additivity="false"只在自定义的Appender中进行输出.</p>
(4).关于日志level.</p>
共有8个级别, 按照从低到高为: All & Trace & Debug & Info & Warn & Error & Fatal & OFF.</p>
All:最低等级的, 用于打开所有日志记录.</p>
Trace:是追踪, 就是程序推进以下, 你就可以写个trace输出, 所以trace应该会特别多, 不过没关系, 我们可以设置最低日志级别不让他输出.</p>
Debug:指出细粒度信息事件对调试应用程序是非常有帮助的.</p>
Info:消息在粗粒度级别上突出强调应用程序的运行过程.</p>
Warn:输出警告及warn以下级别的日志.</p>
Error:输出错误信息日志.</p>
Fatal:输出每个严重的错误事件将会导致应用程序的退出的日志.</p>
OFF:最高等级的, 用于关闭所有日志记录.</p>
程序会打印高于或等于所设置级别的日志, 设置的日志等级越

, 打印出来的日志就越少

4.比较完整的log4j2.xml配置模板

```
<div class="cnblogs_code">
```

```
<pre><span> 1</span> <span>&lt;?</span> <span>xml version="1.0" encoding="UTF-8" <
span><span>?&gt;</span>
<span> 2</span> <span>&lt;!--</span> <span>日志级别以及优先级排序: OFF &gt; FATAL &gt;
ERROR &gt; WARN &gt; INFO &gt; DEBUG &gt; TRACE &gt; ALL </span> <span>--&gt;</sp
n>
<span> 3</span> <span>&lt;!--</span> <span>Configuration后面的status, 这个用于设置log
j2自身内部的信息输出, 可以不设置, 当设置成trace时, 你会看到log4j2内部各种详细输出</span>
span>--&gt;</span>
<span> 4</span> <span>&lt;!--</span> <span>monitorInterval: Log4j能够自动检测修改配置
文件和重新配置本身, 设置间隔秒数</span> <span>--&gt;</span>
<span> 5</span> <span>&lt;</span> <span>configuration </span> <span>status</span>
span>="WARN"</span> <span> monitorInterval</span> <span>="30"</span> <span>&gt;
/<span>
<span> 6</span> <span>&lt;!--</span> <span>先定义所有的appender</span> <span>--
&gt;</span>
<span> 7</span> <span>&lt;</span> <span>appenders</span> <span>&gt;</span>
<span> 8</span> <span>&lt;!--</span> <span>这个输出控制台的配置</span> <span>--&
t;</span>
<span> 9</span> <span>&lt;</span> <span>console </span> <span>name</span> <
pan>="Console"</span> <span> target</span> <span>="SYSTEM_OUT"</span> <span>&gt;
</span>
<span>10</span> <span>&lt;!--</span> <span>输出日志的格式</span> <span>--&gt;
/<span>
<span>11</span> <span>&lt;</span> <span>PatternLayout </span> <span>patter
</span> <span>="[%d{HH:mm:ss:SSS}] [%p] - %l - %m%n"</span> <span>/&gt;</span>
<span>12</span> <span>&lt;</span> <span>console</span> <span>&gt;</span>
<span>13</span> <span>&lt;!--</span> <span>文件会打印出所有信息, 这个log每次运行
序会自动清空, 由append属性决定, 这个也挺有用的, 适合临时测试用</span> <span>--&gt;</s
an>
<span>14</span> <span>&lt;</span> <span>File </span> <span>name</span> <span>
"log"</span> <span> fileName</span> <span>="log/test.log"</span> <span> append</spa
> <span>="false"</span> <span>&gt;</span>
<span>15</span> <span>&lt;</span> <span>PatternLayout </span> <span>pattern</
pan> <span>="[%d{HH:mm:ss:SSS} %-5level %class{36} %L %M - %msg%xEx%n"</span> <sp
n>/&gt;</span>
<span>16</span> <span>&lt;</span> <span>File</span> <span>&gt;</span>
<span>17</span> <span>&lt;!--</span> <span> 这个会打印出所有的info及以下级别的信息
每次大小超过size, 则这size大小的日志会自动存入按年份-月份建立的文件夹下面并进行压缩, 作为
档</span> <span>--&gt;</span>
<span>18</span> <span>&lt;</span> <span>RollingFile </span> <span>name</span>
<span>="RollingFileInfo"</span> <span> fileName</span> <span>="&lt;span>${sys:user.home}/logs/
nfo.log"</span>
<span>19</span> <span><span> filePattern</span> <span>="&lt;span>${sys:user.home}/logs/$
{date:yyyy-MM}/info-%d{yyyy-MM-dd}-%i.log"</span> <span>&gt;</span>
<span>20</span> <span>&lt;!--</span> <span>控制台只输出level及以上级别的信息 (
nMatch), 其他的直接拒绝 (onMismatch) </span> <span>--&gt;</span>
<span>21</span> <span>&lt;</span> <span>ThresholdFilter </span> <span>level<
span> <span>="info"</span> <span> onMatch</span> <span>="ACCEPT"</span> <span>
nMismatch</span> <span>="DENY"</span> <span>/&gt;</span>
<span>22</span> <span>&lt;</span> <span>PatternLayout </span> <span>patter
</span> <span>="[%d{HH:mm:ss:SSS}] [%p] - %l - %m%n"</span> <span>/&gt;</span>
```

```

<span>23</span>          <span>&lt;/span> <span>Policies</span> <span>&gt;/span>
<span>24</span>          <span>&lt;/span> <span>TimeBasedTriggeringPolicy</span>
<span>/&gt;/span>
<span>25</span>          <span>&lt;/span> <span>SizeBasedTriggeringPolicy </span>
span>size</span> <span>="100 MB"</span> <span>/&gt;/span>
<span>26</span>          <span>&lt;/span> <span>Policies</span> <span>&gt;/span>
<span>27</span>          <span>&lt;/span> <span>RollingFile</span> <span>&gt;/span>
<span>28</span>          <span>&lt;/span> <span>RollingFile </span> <span>name</span>
<span>="RollingFileWarn"</span> <span> fileName</span> <span>="</span>${sys:user.home}/logs
warn.log" </span>
<span>29</span> <span>          filePattern</span> <span>="</span>${sys:user.home}/logs/$
{date:yyyy-MM}/warn-%d{yyyy-MM-dd}-%i.log" </span> <span>&gt;/span>
<span>30</span>          <span>&lt;/span> <span>ThresholdFilter </span> <span>level</span>
<span>="warn"</span> <span> onMatch</span> <span>="ACCEPT"</span> <span> onMismatch</span>
<span>="DENY"</span> <span>/&gt;/span>
<span>31</span>          <span>&lt;/span> <span>PatternLayout </span> <span>patter</span>
</span> <span>="[%d{HH:mm:ss:SSS}] [%p] - %l - %m%n"</span> <span>/&gt;/span>
<span>32</span>          <span>&lt;/span> <span>Policies</span> <span>&gt;/span>
<span>33</span>          <span>&lt;/span> <span>TimeBasedTriggeringPolicy</span>
<span>/&gt;/span>
<span>34</span>          <span>&lt;/span> <span>SizeBasedTriggeringPolicy </span>
span>size</span> <span>="100 MB"</span> <span>/&gt;/span>
<span>35</span>          <span>&lt;/span> <span>Policies</span> <span>&gt;/span>
<span>36</span>          <span>&lt;/span>!--</span> <span>DefaultRolloverStrategy属性如不设置
则默认为最多同一文件夹下7个文件，这里设置了20 </span> <span>--&gt;/span>
<span>37</span>          <span>&lt;/span> <span>DefaultRolloverStrategy </span> <span>spa</span>
<span>max</span> <span>="20"</span> <span>/&gt;/span>
<span>38</span>          <span>&lt;/span> <span>RollingFile</span> <span>&gt;/span>
<span>39</span>          <span>&lt;/span> <span>RollingFile </span> <span>name</span>
<span>="RollingFileError"</span> <span> fileName</span> <span>="</span>${sys:user.home}/logs
error.log" </span>
<span>40</span> <span>          filePattern</span> <span>="</span>${sys:user.home}/logs/$
{date:yyyy-MM}/error-%d{yyyy-MM-dd}-%i.log" </span> <span>&gt;/span>
<span>41</span>          <span>&lt;/span> <span>ThresholdFilter </span> <span>level</span>
<span>="error"</span> <span> onMatch</span> <span>="ACCEPT"</span> <span> onMismatch</span>
<span>="DENY"</span> <span>/&gt;/span>
<span>42</span>          <span>&lt;/span> <span>PatternLayout </span> <span>patter</span>
</span> <span>="[%d{HH:mm:ss:SSS}] [%p] - %l - %m%n"</span> <span>/&gt;/span>
<span>43</span>          <span>&lt;/span> <span>Policies</span> <span>&gt;/span>
<span>44</span>          <span>&lt;/span> <span>TimeBasedTriggeringPolicy</span>
<span>/&gt;/span>
<span>45</span>          <span>&lt;/span> <span>SizeBasedTriggeringPolicy </span>
span>size</span> <span>="100 MB"</span> <span>/&gt;/span>
<span>46</span>          <span>&lt;/span> <span>Policies</span> <span>&gt;/span>
<span>47</span>          <span>&lt;/span> <span>RollingFile</span> <span>&gt;/span>
<span>48</span>          <span>&lt;/span> <span>appenders</span> <span>&gt;/span>
<span>49</span>          <span>&lt;/span>!--</span> <span>然后定义logger，只有定义了logger并引
的appender，appender才会生效</span> <span>--&gt;/span>
<span>50</span>          <span>&lt;/span> <span>loggers</span> <span>&gt;/span>
<span>51</span>          <span>&lt;/span>!--</span> <span>过滤掉spring和mybatis的一些无用的DE
UG信息</span> <span>--&gt;/span>
<span>52</span>          <span>&lt;/span> <span>logger </span> <span>name</span> <span></span>
<span>="org.springframework"</span> <span> level</span> <span>="INFO"</span> <span></span>
<span>&lt;/span> <span>logger</span> <span>&gt;/span>

```



```
<span>53</span>         <span>&lt;/span> <span>logger </span> <span>name</span> <s
an>="org.mybatis"</span> <span> level</span> <span>="INFO"</span> <span>&gt;&lt;/</span>
<span>logger</span> <span>&gt;</span>
<span>54</span>         <span>&lt;/span> <span>root </span> <span>level</span> <spa
>="all"</span> <span>&gt;</span>
<span>55</span>         <span>&lt;/span> <span>appender-ref </span> <span>ref</sp
n> <span>="Console"</span> <span>/&gt;</span>
<span>56</span>         <span>&lt;/span> <span>appender-ref </span> <span>ref</sp
n> <span>="RollingFileInfo"</span> <span>/&gt;</span>
<span>57</span>         <span>&lt;/span> <span>appender-ref </span> <span>ref</sp
n> <span>="RollingFileWarn"</span> <span>/&gt;</span>
<span>58</span>         <span>&lt;/span> <span>appender-ref </span> <span>ref</sp
n> <span>="RollingFileError"</span> <span>/&gt;</span>
<span>59</span>         <span>&lt;/span> <span>root</span> <span>&gt;</span>
<span>60</span>         <span>&lt;/span> <span>loggers</span> <span>&gt;</span>
<span>61</span> <span>&lt;/span> <span>configuration</span> <span>&gt;</span> <
pre>
</div>
</div>
</div>
```