logback

博客分类：

- logback

log4j iBATIS DAO JMS ActiveMQ

新的公司日志管理统一用logback，由于之前一直在用log4j，所以其实对logback这个由log4j长出来的家伙还不算陌生。

首先介绍下logback的前世今生。

slf4j由log4j作者Ceki开发，逐步取代apahce commons logging。
logback由log4j作者Ceki开发，逐步取代log4j。
slf4j等于commons-logging，是各种日志实现的通用入口，会根据classpath中存在下面哪一个Jar来决定具体的日志实现库。

logback相比较log4j的优势
slf4j支持参数化的logger.error("帐号ID：{}不存在", userId);
告别了if(logger.isDebugEnable()) 时代。
另外logback的整体性能比log4j也较佳，hibernate等项目已经采用了slf4j。

slf4j和logback的使用
1.如果日志的参数超过3个，需要写成

Java代码

```java
Object[] params = {newVal, below, above};
logger.debug("Value {} was inserted between {} and {}.", params);
```

2.因为内部已优化，作者认为slf4j的logger不需要定义为static。
3.可设置缓存后批量写日志文件(但服务器如果重启，可能会丢失未写到磁盘的记录)
4.MDC，用Filter，将当前用户名等业务信息放入MDC中，在日志format定义中即可使用该变量。
5.JMS Appender用于告警，DB Appender用于业务日志等可以使用插件，如生成Log代码的Eclipse插件Log4E。

6.tomcat和glassfish中，设定日志路径为../logs/xxxx.log 都能将日志放入应用服务器本身的logs目录。

最后把最近完善的一个logback.xml贴上，毕竟实际项目中的文件最能说明问题。

Xml代码

```xml
<?xml version="1.0" encoding="UTF-8"?>

<configuration>
    <substitutionProperty name="log.base" value="d:\\logback\\logback" />
    <jmxConfigurator />
    <appender name="stdout" class="ch.qos.logback.core.ConsoleAppender">
        <filter class="ch.qos.logback.core.filter.EvaluatorFilter">
            <evaluator name="myEval">
                <expression>message.contains("dao")</expression>
            </evaluator>
            <onMatch>ACCEPT</onMatch>
            <onMismatch>DENY</onMismatch>
        </filter>
        <layout class="ch.qos.logback.classic.PatternLayout">
            <pattern>%date [%thread] %-5level %logger{80} - %msg%n</pattern>
        </layout>
    </appender>
    <appender name="logfile-dao"
        class="ch.qos.logback.core.rolling.RollingFileAppender">
        <filter class="ch.qos.logback.core.filter.EvaluatorFilter">
            <evaluator name="myEval_dao">
                <expression>message.contains("dao")</expression>
            </evaluator>
            <onMatch>ACCEPT</onMatch>
            <onMismatch>DENY</onMismatch>
        </filter>
        <Encoding>UTF-8</Encoding>
        <File>${log.base}_dao.log</File>
        <rollingPolicy class="ch.qos.logback.core.rolling.TimeBasedRollingPolicy">
            <FileNamePattern>${log.base}.%d{yyyy-MM-dd}_dao.log.zip
            </FileNamePattern>
        </rollingPolicy>
        <layout class="ch.qos.logback.classic.PatternLayout">
            <pattern>%date [%thread] %-5level %logger{80} - %msg%n</pattern>
        </layout>
    </appender>
    <appender name="logfile-service"
        class="ch.qos.logback.core.rolling.RollingFileAppender">
        <filter class="ch.qos.logback.core.filter.EvaluatorFilter">
            <evaluator name="myEval_service">
                <expression>message.contains("service.impl")</expression>
            </evaluator>
            <onMatch>ACCEPT</onMatch>
            <onMismatch>DENY</onMismatch>
        </filter>
        <Encoding>UTF-8</Encoding>
        <File>${log.base}_service.log</File>
        <rollingPolicy class="ch.qos.logback.core.rolling.TimeBasedRollingPolicy">
            <FileNamePattern>${log.base}.%d{yyyy-MM-dd}_service.log.zip
            </FileNamePattern>
        </rollingPolicy>
        <layout class="ch.qos.logback.classic.PatternLayout">
            <pattern>%date [%thread] %-5level %logger{80} - %msg%n</pattern>
        </layout>
    </appender>
    <appender name="jms_dao" class="ch.qos.logback.classic.net.JMSQueueAppender">
        <InitialContextFactoryName>
            org.apache.activemq.jndi.ActiveMQInitialContextFactory
        </InitialContextFactoryName>
        <ProviderURL>tcp://192.168.1.120:61616</ProviderURL>
        <filter
```

```
class="ch.qos.logback.core.filter.EvaluatorFilter">
            <evaluator name="myEval_service">
                <expression>message.contains("dao")</expression>
            </evaluator>
            <onMatch>ACCEPT</onMatch>
            <onMismatch>DENY</onMismatch>
        </filter>
        <QueueConnectionFactoryBindingName>ConnectionFactory
        </QueueConnectionFactoryBindingName>
        <QueueBindingName>cms_dao_log</QueueBindingName>
    </appender>
    <appender name="jms_service" class="ch.qos.logback.classic.net.JMSQueueAppender">
        <InitialContextFactoryName>
            org.apache.activemq.jndi.ActiveMQInitialContextFactory
        </InitialContextFactoryName>
        <ProviderURL>tcp://192.168.1.120:61616</ProviderURL>
        <filter class="ch.qos.logback.core.filter.EvaluatorFilter">
            <evaluator name="myEval_service">
                <expression>message.contains("service.impl")</expression>
            </evaluator>
            <onMatch>ACCEPT</onMatch>
            <onMismatch>DENY</onMismatch>
        </filter>
        <QueueConnectionFactoryBindingName>ConnectionFactory
        </QueueConnectionFactoryBindingName>
        <QueueBindingName>cms_service_log</QueueBindingName>
    </appender>
    <logger name="com.cms5.cmsservice.jms">
        <level value="DEBUG" />
    </logger>
    <logger name="java.sql.PreparedStatement">
        <level value="DEBUG" />
    </logger>
    <logger name="java.sql.Connection">
        <level value="DEBUG" />
    </logger>
    <logger name="java.sql.Statement">
        <level value="DEBUG" />
    </logger>
    <logger name="com.ibatis">
```

```
        <level value="DEBUG" />
    </logger>
    <logger name="com.ibatis.common.jdbc.SimpleDataSource">
        <level value="DEBUG" />
    </logger>
    <logger name="com.ibatis.common.jdbc.ScriptRunner">
        <level value="DEBUG" />
    </logger>
    <logger name="com.ibatis.sqlmap.engine.impl.SqlMapClientDelegate">
        <level value="DEBUG" />
    </logger>
    <logger name="com.danga.MemCached">
        <level value="INFO" />
    </logger>
    <logger name="org.springframework.test">
        <level value="DEBUG" />
    </logger>
    <logger name="org.apache.struts2">
        <level value="DEBUG" />
    </logger>
    <root>
        <level value="INFO" />
        <!--<appender-ref ref="stdout" />
        -->
        <appender-ref ref="logfile-dao" />
        <appender-ref ref="logfile-service" />
        <appender-ref ref="jms_dao" />
        <appender-ref ref="jms_service" />
    </root>
</configuration>
```

就先不做说明了，里面的配置还是比较明确的，关于jmsappender那部分，之前也做过简单说明。

项目中用到的logback列子

分类： Web开发2011-09-21 13:59 908人阅读 评论(1) 收藏 举报

class thread layout

莫个银行项目中实际引用的Llogback实例，禁提供大家参考！！！！

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```
<!-- if debug set to true, context info always print
 otherwise the contex info will print when error occour -->
<configuration scan="true" scanPeriod="60 seconds" debug="false">

  <appender name="stdout" class="ch.qos.logback.core.ConsoleAppender">
     <layout class="ch.qos.logback.classic.PatternLayout">
       <pattern>%d{HH:mm:ss.SSS} [%thread] %-5level %logger{40} - %msg%n</pattern>
     </layout>
   </appender>

  <!-- 所有日志文件-->
  <appender name="AllLog" class="ch.qos.logback.core.rolling.RollingFileAppender">
    <rollingPolicy class="ch.qos.logback.core.rolling.TimeBasedRollingPolicy">
      <fileNamePattern>log/abcchina/all/%d{yyyy-MM-dd}.log</fileNamePattern>
      <maxHistory>30</maxHistory>
    </rollingPolicy>
    <encoder>
      <pattern>%d{HH:mm:ss.SSS} [%thread] %-5level %logger{40} - %msg%n</pattern>
    </encoder>
  </appender>

  <appender name="TaskLog" class="ch.qos.logback.core.rolling.RollingFileAppender">
    <rollingPolicy class="ch.qos.logback.core.rolling.TimeBasedRollingPolicy">
      <fileNamePattern>log/abcchina/task/%d{yyyy-MM-dd}.log</fileNamePattern>
      <maxHistory>30</maxHistory>
    </rollingPolicy>
    <encoder>
      <pattern>%d{HH:mm:ss.SSS} [%thread] %-5level %logger{40} - %msg%n</pattern>
    </encoder>
  </appender>
  <appender name="SendLog"
```

```
class="ch.qos.logback.core.rolling.RollingFileAppender">
    <rollingPolicy class="ch.qos.logback.core.rolling.TimeBasedRollingPolicy">
      <fileNamePattern>log/abcchina/send/%d{yyyy-MM-dd}.log</fileNamePattern>
      <maxHistory>30</maxHistory>  项目中用到的logback列子
    </rollingPolicy>
    <encoder>
      <pattern>%d{HH:mm:ss.SSS} [%thread] %-5level %logger{40} - %msg%n</pattern>
    </encoder>
  </appender>
  <!-- 为莫个包下的所有类指定Appender 这里也可以指定类名称例如:com.aa.bb.ClassName-->
  <logger name="com.aa.bb" >
    <appender-ref ref="TaskLog" />
  </logger>

  <logger name="com.aa.cc" >
    <appender-ref ref="SendLog" />
  </logger>

  <root level="INFO">
    <appender-ref ref="AllLog" />
  </root>
</configuration>
```