**SUMMARY**

A concurrency bug in log4j 1.1beta

**DETAILS**

Some details can also be found at: <https://bugs.mysql.com/bug.php?id=48930>

This bug is due to a data race.

The implementation of class AppenderAttachableImpl is left non--thread-safe, that is, it does not make use of synchronized methods or blocks.

Test case link: <https://bz.apache.org/bugzilla/attachment.cgi?id=122>

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| --- | --- |
| Thread1 (removeAppenders) | Thread2 (getAppender) |
| synchronized  public  void removeAllAppenders() {  aai.removeAllAppenders();  } | public  Appender getAppender(String name) {  return aai.getAppender(name);  } |
| public  void removeAllAppenders() {  if(appenderList != null) {  int len = appenderList.size();  for(int i = 0; i < len; i++) {  Appender a = (Appender) appenderList.elementAt(i);  a.close();  }  appenderList.removeAllElements();  appenderList = null;  }  } | public  Appender getAppender(String name) {  if(appenderList == null || name == null)  return null;  int size = appenderList.size();  Appender appender;  for(int i = 0; i < size; i++) {  appender = (Appender) appenderList.elementAt(i);  if(name.equals(appender.getName()))  return appender;  }  return null;  } |
| 1-lock | 0-lock |