

ThreatFactor NSIA - Bug #67

Errors When Scan Results are Saved

04/08/2010 11:47 PM - Luke Murphey

Status:	New	Start date:	04/08/2010
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Core Application	Estimated time:	0.00 hour
Target version:			
<p><b>Description</b></p> <p>A database error is thrown when some scan results are saved with fields containing excessive number of characters. Below is an example of the error:</p> <pre>[2008/19/07 19:40:43 CDT, Error] System: Database exception {     Task = Scanning rule 1 of 1 (Not Scanning)",     StackTrace = "ERROR 22001: A truncation error was encountered trying to shrink VARCHAR 'Cross domain inline frame discovered to: http://www.islamicf&amp;' to length 255.         at org.apache.derby.iapi.error.StandardException.newException(Unknown Source) org.apache.commons.dbcp.DelegatingPreparedStatement.executeUpdate(DelegatingPreparedStatement. java:101) at net.lukeMurphey.nsia.scanRules.HttpSignatureScanResult.saveToDatabase(HttpSignatureScanResult. java:858) at net.lukeMurphey.nsia.scanRules.HttpSeekingScanResult.saveToDatabase(HttpSeekingScanResult.java :379) at net.lukeMurphey.nsia.RuleScanWorker.run(RuleScanWorker.java:238) at java.lang.Thread.run(Unkno wn Source) }</pre>			

History

#1 - 04/08/2010 11:48 PM - Luke Murphey

This is caused by varchar columns that do not have enough length. Long varchar have an unlimited length but cannot be used for comparisons. The only alternatives are:

- 1. Set the length to the maximum allowable
- 2. Truncate strings before saving

Note the maximum varchar lengths vary according to the database used:

- **MySQL:** 255 (< MySQL 5.0.3), 65,536 otherwise
- **Derby:** 32,672
- **MSSQL:** [\[2,147,483,647\]](#)
- **Oracle:** [\[4,000\]](#)

#2 - 04/08/2010 11:48 PM - Luke Murphey

The Varchar lengths were changed to be near the limit when the internal database is used. This is note the final solution since long fields lengths will still generate an error, but it dramatically reduces that chance that the issue occurs.

**#3 - 04/08/2010 11:49 PM - Luke Murphey**

Need to determine if Text fields can be used instead of varchar fields. Note that the SQL creation scripts for MySQL now used Text by default but this has not been tested in the application yet.

**#4 - 11/02/2010 01:18 PM - Luke Murphey**

- *Category set to Core Application*