Foreman - Bug #1614

SQL index on sources.value column

05/10/2012 07:33 PM - Phil Dufault

Status:	Duplicate		
Priority:	Normal		
Assignee:			
Category:	Database		
Target version:			
Difficulty:	easy	**Fixed in Releases:**	
Triaged:		**Found in Releases:**	
Bugzilla link:		**Red Hat JIRA:**	
Pull request:			

Description

MySQL is not using the index for queries, I caught it doing table scans while a host is applying it's manifests:
(localhost) [foreman]> explain SELECT * FROM sources WHERE value = '//darts.foo.bar/Puppet';
+----------+---------+------+----------+------+---------+------+--------+----------+ | id | select_type | table | type | possible_keys | key | key_len | ref | rows | Extra |
+----------+---------+------+----------+------+---------+------+--------+----------+ | 1 | SIMPLE | sources | ALL | value | NULL | NULL | NULL | 140037 | Using where |
+----------+---------+------+----------+------+---------+------+--------+----------+
1 row in set (0.00 sec)

(localhost) [foreman]> show create table sources;
+----------+----------+ | Table | Create Table
|
+----------+----------+ | sources | CREATE TABLE `sources` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`value` text,
PRIMARY KEY (`id`),
FULLTEXT KEY `value` (`value`)
) ENGINE=MyISAM AUTO_INCREMENT=295256 DEFAULT CHARSET=latin1 |
+----------+----------+
1 row in set (0.00 sec)

(localhost) [foreman]> show indexes from sources;
+----------+----------+----------+----------+----------+----------+----------+----------+----------+----------+ | Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment |
+----------+----------+----------+----------+----------+----------+----------+----------+----------+----------+ | sources | 0 | PRIMARY | 1 | id | A | 122065 | NULL | NULL | | BTREE | | | sources | 1 | value | 1 | value | NULL | NULL | NULL | NULL | YES | FULLTEXT | |
+----------+----------+----------+----------+----------+----------+----------+----------+----------+----------+
2 rows in set (0.00 sec)

In the schema.rb:
create_table "sources", :force => true do |t|
t.text "value"
end

```
add_index "sources", ["value"], :name => "value"
```

This appears to create a fulltext index for the sources.value column in foreman's db.

Adding a non fulltext-type index solves this, I added an index for the first 120 characters to speed things up.

```
(localhost) [foreman]> create index index_sources_value on sources(value(120));
Query OK, 140705 rows affected (5.46 sec)
Records: 140705  Duplicates: 0  Warnings: 0

(localhost) [foreman]> explain SELECT * FROM sources WHERE value = '//darts.foo.bar/Puppet';
+----------+---------+------+-----------------+-------------+---------+-------+------+-------------+
| id | select_type | table   | type |
possible_keys      | key          | key_len | ref   | rows | Extra       |
+----------+---------+------+-----------------+-------------+---------+-------+------+-------------+
|  1 | SIMPLE      | sources | ref  |
sourcevalues,value | sourcevalues | 123     | const |    1 | Using where |
+----------+---------+------+-----------------+-------------+---------+-------+------+-------------+
1 row in set (0.00 sec)
```

I love this project, wanted to contribute something back that I'd experienced today.

Related issues:

Is duplicate of Foreman - Bug #2264: schema.rb invalid for MySQL, fails creat...	**Closed**	**02/28/2013**

History

#1 - 03/15/2016 07:41 AM - Ohad Levy

- Description updated

- Category set to Database

- Difficulty set to easy

#2 - 03/15/2016 07:52 AM - Dominic Cleal

- Is duplicate of Bug #2264: schema.rb invalid for MySQL, fails creating index on sources.value TEXT column added

#3 - 03/15/2016 07:52 AM - Dominic Cleal

- Status changed from New to Duplicate

I believe this has been solved by #2264, which added an indexed digest column to replace the full text index and now report uploads search for source strings by digest instead.