Description

The search for facts and also hosts by facts is vulnerable to SQL injection by breaking out of quotes in either the fact name or the fact value.

Hosts search term: facts.bobby'tables = test

```
SQL:3::SQLException: near "tables": syntax error: SELECT "hosts".* FROM "hosts" INNER JOIN fact_values fact_values_66 ON (hosts.id = fact_values_66.host_id) INNER JOIN fact_names fact_names_66 ON (fact_names_66.id = fact_values_66.fact_name_id) WHERE "hosts"."type" IN ('Host::Managed') AND ((fact_names_66.name = 'bobby'tables' AND fact_values_66.value = 'test')) ORDER BY "hosts"."name" ASC LIMIT 40 OFFSET 0
```

Hosts search term: facts.test = a'b

```
SQL:3::SQLException: near "b": syntax error: SELECT "hosts".* FROM "hosts" INNER JOIN fact_values fact_values_62 ON (hosts.id = fact_values_62.host_id) INNER JOIN fact_names fact_names_62 ON (fact_names_62.id = fact_values_62.fact_name_id) WHERE "hosts"."type" IN ('Host::Managed') AND ((fact_names_62.name = 'test' AND fact_values_62.value = 'a'b')) ORDER BY "hosts"."name" ASC LIMIT 40 OFFSET 0
```

The host search by facts mechanism was extended in #11150 to support integer comparisons, and in the process the custom SQL that was added doesn't escape non-integer values when it constructs the query.

This was added in Foreman 1.10.0, so only the current release candidates are affected.

CVE identifier requested.

Related issues:

Related to Foreman - Feature #11150: Allow searching of facts as types other ...

Associated revisions

Revision b08ec33d - 11/13/2015 05:47 AM - Dominic Cleal

fixes #12458 - escape values in fact searches to prevent SQL injection

Revision 72eac09d - 11/16/2015 09:30 AM - Dominic Cleal

fixes #12458 - escape values in fact searches to prevent SQL injection
History

#1 - 11/12/2015 11:04 AM - Dominic Cleal
- Related to Feature #11150: Allow searching of facts as types other than string added

#2 - 11/12/2015 11:42 AM - The Foreman Bot
- Status changed from Assigned to Ready For Testing
- Pull request https://github.com/theforeman/foreman/pull/2908 added

#3 - 11/13/2015 03:14 AM - Dominic Cleal

CVE identifier requested.

This won't be assigned as the software is pre-release.

#4 - 11/13/2015 06:01 AM - Dominic Cleal
- Status changed from Ready For Testing to Closed
- % Done changed from 0 to 100

Applied in changeset b08ec33dbb1e12db65bc0bde755e657a940531c1.