### Extensible commands in hammer

**11/12/2017 08:05 AM - Tomáš Strachota**

**Status:** Closed  
**Priority:** Normal  
**Assignee:** Oleh Fedorenko  
**Category:** Hammer core  
**Target version:**  
**Difficulty:**  
**Team Backlog:**  
**Triaged:** No  
**Bugzilla link:**  
**Fixed in Releases:** hammer-cli-0.17.0  
**In Kanboard:**  
**Found in Releases:**  

#### Description

Hammer doesn't provide any interface for extending commands. Currently all the extensions are done via including module, which is a dirty solution without any clear boundaries.

There are several usecases already where hammer commands need to be dynamically extended:
- adding options and fields to host commands from katello
- adding per-provider fields in compute-resource info command
- adding help for per-provider options in host update and create

There are also some features not implemented yet that could take advantage of extension system in future:
- adding per-provider fields to compute profile commands
- adding extensions to ping command from plugins

All these cases could be refactored to use a single extension solution that would make the implementation more flexible.

Extensions need to be able to modify the following:
- add options to commands
- extend data from server responses before it's printed
- extend and modify additional texts in help
- modify parameters of api requests
- modify output fields

The interface for extending should accept instances of extensions. E.g.:

```ruby
HammerCLIForeman::Host::InfoCommand.extend(ComputeAttributesExtension.new)
```

Since some of the extension points are in hammer-cli and some in hammer-cli-foreman and there's potential for other plugins to add extension points in future, hammer should provide a helper function for invoking the extensions. E.g.

```ruby
execute_extensions(:help, parameters)
```

In the first phase it's fine to limit extension of options, help and print fields to allow only addition. Full modification in this cases can be implemented later as it requires additional changes in hammer core.

#### Related issues:

- Related to Hammer CLI - Feature #21633: Allow modification of additional help...  
  Closed  
- Related to Hammer CLI - Feature #21634: Allow modification of output fields  
  Closed
Related to Hammer CLI - Feature #24655: Include details about the required ops...

**Assigned**

### Associated revisions

**Revision 107a5124 - 04/09/2019 03:05 PM - Oleh Fedorenko**

Fixes #21635 - Extensible commands in hammer

### History

#### #1 - 11/12/2017 08:05 AM - Tomáš Strachota
- Related to Feature #21633: Allow modification of additional help texts added

#### #2 - 11/12/2017 08:05 AM - Tomáš Strachota
- Related to Feature #21634: Allow modification of output fields added

#### #3 - 01/31/2018 02:25 PM - Oleh Fedorenko
- Assignee set to Oleh Fedorenko
- Status changed from New to Assigned

#### #4 - 08/19/2018 11:45 AM - Shira Maximov
- Related to Feature #24655: Include details about the required options in the help text added

#### #5 - 10/11/2018 03:52 PM - The Foreman Bot
- Status changed from Assigned to Ready For Testing
- Pull request https://github.com/theforeman/hammer-cli/pull/291 added

#### #6 - 04/09/2019 04:01 PM - Oleh Fedorenko
- Status changed from Ready For Testing to Closed

Applied in changeset 107a5124499653d5b6e3a7d269a511425bce612e

#### #7 - 07/16/2019 09:23 AM - Martin Bacovsky
- Fixed in Releases hammer-cli-0.17.0 added