

Foreman - Bug #18245

Enabling OAuth is too dangerous

01/25/2017 05:47 PM - M T

Status: New	
Priority: Normal	
Assignee:	
Category: Users, Roles and Permissions	
Target version:	
Difficulty: medium	Fixed in Releases:
Triaged:	Found in Releases: 1.13.3
Bugzilla link:	Red Hat JIRA:
Pull request:	
Description	
<p>The current OAuth implementation in Foreman allows access to anybody with knowledge of two strings: OAuth consumer key and OAuth consumer secret.</p> <p>In this sense, it is not any more secure than the typical username/password set of credentials.</p> <p>But, in reality, it is a lot worse:</p> <ol style="list-style-type: none">1. Unlike personal passwords, which are never shown in clear text, both the key and the secret are visible to all current admins under FOREMAN/settings#Auth2. While personal passwords can be made to automatically expire (such as by using an external LDAP-server with stricter settings), the OAuth credentials are permanent3. If mapping of OAuth-requests to existing accounts is not enabled, using this method gives the REST API scripts <i>admin</i>-level access to Foreman -- having once observed the credentials, a hacker can delete or alter hosts in Foreman.4. If mapping of OAuth-requests to existing accounts is enabled (by specifying a separate request-header FOREMAN-USER), a script can freely impersonate <i>any</i> user -- which is even worse than anonymous admin-access. Once authenticated with the OAuth credentials, a script can gain any user's authorization... <p>The existing OAuth implementation should be redone to:</p> <ul style="list-style-type: none">• Allow only read-only access to OAuth-using scripts by default, if OAuth is enabled at all.• Allow admins to create multiple OAuth credential-pairs with different roles, limiting the capabilities of API-using scripts <p>Finally, OAuth or not, there should be a way to enable <i>anonymous</i> browsing/searching of Foreman data -- even if making any changes may still require a login. The current <code>:login: true</code> in settings.yaml is not granular enough.</p>	
Related issues:	
Related to Foreman - Feature #1301: Consider adding a per-user API key	Closed

History

#1 - 01/26/2017 02:57 AM - Dominic Cleal

- Related to Feature #1301: Consider adding a per-user API key added