

Foreman - Feature #26608

Windows password hashes require 'AdministratorPassword' at the end of passwd string

04/14/2019 11:32 AM - Si Man

Status:	Closed	
Priority:	Normal	
Assignee:	Arend Lapere	
Category:	Unattended installations	
Target version:		
Difficulty:		Fixed in Releases: 1.24.1, 2.0.0
Triaged:	No	Found in Releases: 1.21.2
Bugzilla link:		Red Hat JIRA:
Pull request:	https://github.com/theforeman/foreman/pull/7339 , https://github.com/theforeman/foreman/pull/7131	
Description		
<p>Windows OS's that I have tested (2012r2 to 10.1809) require the string "AdministratorPassword" to be appended to the end of the raw password string prior to hashing, which must then be in UTF16LE format. While the hashing method is now included in the latest 1.21.2 release as 'Base-64-Windows' option under Operating System, the additional string is not. Windows (Unattended) Answer files (.xml) encapsulated in provisioning templates (.erb) cannot be processed by the OS unless this string exists at the end of the password when <code><%= root_pass ></code> is used.</p> <pre>case hash_alg when 'Base64' result = Base64.strict_encode64(passwd) when 'Base64-Windows' * passwd << Base64.strict_encode64("AdministratorPassword") * result = Base64.strict_encode64(passwd.encode('utf-16le'))</pre> <p>The attached password_crypt.rb file has an additional line that appends the passwd with the required string.</p> <p>Templates tested were originally sourced from https://github.com/kireevco/foreman-wimaging/tree/1bd8f0facff80c19a5eccc12c01e8febd00f701e/wimaging and have been customised to my environment.</p>		
Related issues:		
Related to Foreman - Bug #35946: Windows password-encryption code changes inp...		Closed

Associated revisions

Revision 0de4e199 - 10/29/2019 04:11 PM - UXabre

Fixes #26608 - suffixed "AdministratorPassword" for windows

History

#1 - 04/17/2019 08:56 AM - Si Man

- File password_crypt.rb added

Further testing has shown that the appending of AdministratorPassword does NOT need to be base64 encoded prior to adding to the passwd contents. The following line is enough:

```
when 'Base64-Windows'
  passwd << "AdministratorPassword"
  result = Base64.strict_encode64(passwd.encode('utf-16le'))
```

Also, if a default password is saved in a Host Group it appears to be stored in a hash other than UTF16LE, and the result fails to create a host. Therefore, a password must not be stored in a Host Group and needs to be assigned to a Host upon creation.

Found 2 side-effects of this method however:

1. The build token cannot be successfully retrieved. Unsure why appending the passwd would cause this, but removing the line fixed this issue
2. Cancelling a build results in a password length error, but building or deleting a Host completes OK.

#2 - 04/17/2019 08:56 AM - Si Man

- File deleted (*password_crypt.rb*)

#3 - 10/25/2019 01:57 PM - The Foreman Bot

- Status changed from *New* to *Ready For Testing*

- Assignee set to *Arend Lapere*

- Pull request <https://github.com/theforeman/foreman/pull/7131> added

#4 - 10/29/2019 04:12 PM - The Foreman Bot

- Fixed in *Releases 2.0.0* added

#5 - 10/29/2019 05:02 PM - Anonymous

- Status changed from *Ready For Testing* to *Closed*

Applied in changeset [0de4e199bc95e4544c26c093ab0839ffbba8cb64](#).

#6 - 01/07/2020 04:14 PM - The Foreman Bot

- Pull request <https://github.com/theforeman/foreman/pull/7339> added

#7 - 01/08/2020 03:09 PM - Tomer Brisker

- Fixed in *Releases 1.24.1* added

#8 - 01/08/2020 03:17 PM - Tomer Brisker

- Category set to *Unattended installations*

#9 - 01/13/2023 05:22 PM - Markus Bucher

- Related to *Bug #35946: Windows password-encryption code changes input-value* added

Files

password_crypt.rb	1.29 KB	04/17/2019	Si Man
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