

Puppet - Bug #11293

Password parameter for the User resource is broke in OS X version 10.7

12/08/2011 01:26 pm - Gary Larizza

Status: Closed	Start date: 12/08/2011
Priority: Normal	Due date:
Assignee: Gary Larizza	% Done: 0%
Category: OSX	Estimated time: 0.00 hour
Target version: 2.7.10	
Affected Puppet version: 2.7.9	Branch: https://github.com/puppetlabs/puppet/pull/308
Keywords:	

Description

As of 10.7, OS X uses a SHA512 hash for their passwords. In the past, they used SHA1 hashes, which are supported with the user resource. As it stands right now, the password parameter is broken. Doing a sudo puppet resource user results in the following:

```
users root $ sudo puppet resource user demouser
user { 'demouser':
  ensure => 'present',
  comment => 'Demo User',
  gid    => '20',
  home   => '/Users/demouser',
  shell  => '/bin/bash',
  uid    => '504',
}
```

Accessing the hash in 10.7 requires the following steps:

- Grabbing the user's plist file in `/var/db/dslocal/nodes/Default/users/username.plist`
-

Converting it to XML (since it's a binary plist)

```
plutil -convert xml1 username.plist
```

-

Inspecting the XML file, getting the data string from the ShadowHashData key, and base64-decoding it

```
echo "Data from ShadowHashData Key" | base64 -d > ShadowHashData
```

-

The file we created in the previous step is ACTUALLY A BINARY PLIST that needs to be converted to XML

```
plutil -convert xml1 ShadowHashData
```

-

In that XML file, there's a key named SALTED-SHA512. Grab the data string from that key and base64-decode it

```
echo "Data from SALTED-SHA512 Key" | base64 -d > hashfile
```

-

Finally, reveal the hash using the xxd tool (which I presume takes hex and converts to a string? Or vice versa?) and cutting the first portion (which should be the salt)

```
xxd -p -c 256 hashfile | cut -c 9-
```

Because the password was stored as SHA1 in versions 10.4 – 10.6 and SHA512 in 10.7, there doesn't seem to be a way that we can have a universal password attribute for the user resource (unless we store the password in plaintext, which is not ideal).

Related issues:

Duplicated by Puppet - Bug # 11580: Mac OS 10.7 Lion @user password: No such...

Duplicate

12/27/2011

History

#1 - 12/12/2011 09:47 am - Matthauss Owens

- Status changed from Unreviewed to Accepted

#2 - 01/03/2012 05:15 pm - Gary Larizza

- Branch set to https://github.com/glarizza/puppet-1/tree/bug/2.7.x/11293_users_osx

#3 - 01/05/2012 02:52 pm - Gary Larizza

- Category set to OSX

- Assignee set to Gary Larizza

- Target version set to 2.7.x

Pull request at <https://github.com/puppetlabs/puppet/pull/306> if anyone wants to test it out.

#4 - 01/05/2012 04:23 pm - Anonymous

- Target version changed from 2.7.x to 2.7.10

- Affected Puppet version set to 2.7.9

Merged

Merged into 2.7.x as <https://github.com/puppetlabs/puppet/commit/f79bd374ce9c1132b60d06e9eddd1002c595800d>

#5 - 01/05/2012 05:29 pm - Anonymous

- Status changed from Accepted to Tests Insufficient

Reverted

Reverted this from 2.7.x to un-break the build.

commit c751e01802d6eb7eea3dbe600bee0784943b0a30

Author: Jeff McCune

Date: Thu Jan 5 17:25:25 2012 -0800

Revert "Access user password hash in OS X 10.7"

This reverts commit 11b8c5ad3fb99263c8484fecc767b69cd80d3156.

This needs to be reverted because I missed the use of backticks (`), effectively %x{}, in the original pull request and this is causing a big problem for the CI tests on non Mac OS X systems that don't have plutil.

Gary and I are going to re factor the pull request to make the command calls easier to mock out on non Mac OS X platforms. We can't do this quickly tonight though.

Updated information will be in ticket #11293

#6 - 01/06/2012 01:26 pm - Anonymous

- Status changed from *Tests Insufficient* to *Merged* - *Pending Release*

Merged into 2.7.x

The new pull request <https://github.com/puppetlabs/puppet/pull/308> with updated tests have been merged into 2.7.x as:

commit 63e31232c192d6d5ad86f2ea829d4605e069ec4e
Merge: 07da208 018f36d
Author: Jeff McCune
Date: Fri Jan 6 13:23:27 2012 -0800

Merge branch 'bug/2.7.x/11293' into 2.7.x

* bug/2.7.x/11293:
(#11293) Add password get/set behavior for 10.7

#7 - 01/06/2012 01:27 pm - Anonymous

- Branch changed from https://github.com/glarizza/puppet-1/tree/bug/2.7.x/11293_users_osx to <https://github.com/puppetlabs/puppet/pull/308>

#8 - 01/18/2012 02:59 pm - Michael Stahnke

- Status changed from *Merged* - *Pending Release* to *Closed*

released in 2.7.10rc1