

## Lasso - Development #35061

### perl "Attempt to free unreferenced scalar" warning when using lasso\_server\_add\_provider2

25 juillet 2019 16:51 - Maxime Besson

<b>Statut:</b>	Fermé	<b>Début:</b>	25 juillet 2019
<b>Priorité:</b>	Normal	<b>Echéance:</b>	
<b>Assigné à:</b>	Benjamin Dauvergne	<b>% réalisé:</b>	100%
<b>Catégorie:</b>	Binding perl	<b>Temps estimé:</b>	0:00 heure
<b>Version cible:</b>	2.6.1	<b>Planning:</b>	Non
<b>Patch proposé:</b>	Oui		

#### Description

My application is currently doing something like this to load multiple SP metadatas into an IDP server:

```
use Lasso;
my $server = new Lasso::Server("metadata.xml", "private-key.pem");

# for each provider I want to load
$server->add_provider_from_buffer(Lasso::Constants::PROVIDER_ROLE_SP, "sp.xml");
```

This has been working fine for years now. However, I would like to extract the entityID of each provider as I load it into the server. For logging purposes among other things.

I would like to avoid parsing the XML metadata a second time to extract the entityID field. After reading the API docs, it seems like the following approach should work:

```
use Lasso;
my $server = new Lasso::Server("metadata.xml", "private-key.pem");

# For each provider I want to load:
my $provider = new Lasso::Provider(Lasso::Constants::PROVIDER_ROLE_SP, "sp.xml");
my $entityID=$provider->ProviderID;
# Do something interesting with $entityID....
$server->add_provider2($provider);
```

However, running this particular perl script yields the following, and rather scary warning:

```
Attempt to free unreferenced scalar: SV 0x5618e45d2f48, Perl interpreter: 0x5618e45d0010 at test.p
l line 10.
```

Tested with PERL v5.24.1 and v5.28.1 (debian stretch and buster), using Lasso's git master branch, metadata files used in my script come from the Lasso test suite, any metadata file I try yields the same result.

Am I doing something wrong here? This seems like a reference counting issue when registering the provider. Is there another way I could extract the entityID from a metadatafile before registering it into the server that I haven't found?

Thanks for your help.

#### Révisions associées

##### Révision 6c852f8c - 05 septembre 2019 12:42 - Benjamin Dauvergne

Fix reference count in lasso\_server\_add\_provider2 (fixes #35061)

As implemented lasso\_server\_add\_provider2 could not be used as a public API as it did not increase the reference count of the LassoProvider object before adding it to the providers hashtable.

lasso\_server\_add\_provider\_helper had to be modified to decrement the reference count of the new LassoProvider object after using lasso\_server\_add\_provider2.

#### Historique

##### #1 - 06 août 2019 15:44 - Benjamin Dauvergne

- Statut changé de Nouveau à Information nécessaire

I'm not able to reproduce the trace on buster with your example code, could you provide a working script with accompanying data files ?

## #2 - 06 août 2019 16:08 - Maxime Besson

- Fichier *issue-35061.zip* ajouté

You'll find a more complete test in the attached zip. All data files come from the test Lasso test suite.

I discovered that in some cases, instead of a perl warning I get a GObject warning, you should see it while running *fail2.pl*

## #3 - 03 septembre 2019 13:42 - Benjamin Dauvergne

- Fichier *0001-Fix-reference-count-in-lasso\_server\_add\_provider2-fi.patch* ajouté

- Tracker changé de Support à Development

- Statut changé de Information nécessaire à Solution proposée

- Patch proposed changé de Non à Oui

I found the problem, *lasso\_provider\_add\_provider2* was just never tested as a public API on our side, as we always use *lasso\_server\_add\_provider/\_from\_buffer*.

## #4 - 03 septembre 2019 18:30 - Maxime Besson

No more warning from perl, thanks for fixing this!

## #5 - 05 septembre 2019 12:42 - Benjamin Dauvergne

- Statut changé de Solution proposée à Résolu (à déployer)

```
commit 6c852f8c0bdca7cc85dd1edbdb939887bd35ffe3
Author: Benjamin Dauvergne <bdauvergne@entrouvert.com>
Date: Tue Sep 3 13:39:05 2019 +0200
```

```
Fix reference count in lasso_server_add_provider2 (fixes #35061)
```

```
As implemented lasso_server_add_provider2 could not be used as a publik
API as it did not increase the reference count of the LassoProvider
object before adding it to the providers hashtable.
```

```
lasso_server_add_provider_helper had to be modified to decrement the
reference count of the new LassoProvider object after using
lasso_server_add_provider2.
```

## #6 - 05 septembre 2019 12:45 - Benjamin Dauvergne

- % réalisé changé de 0 à 100

Appliqué par commit [6c852f8c0bdca7cc85dd1edbdb939887bd35ffe3](#).

## #7 - 06 septembre 2019 14:39 - Benjamin Dauvergne

- Version cible mis à 2.6.1

## #8 - 06 septembre 2019 14:40 - Benjamin Dauvergne

- Statut changé de Résolu (à déployer) à Solution déployée

## Fichiers

<a href="#">issue-35061.zip</a>	5,95 ko	06 août 2019	Maxime Besson
<a href="#">0001-Fix-reference-count-in-lasso_server_add_provider2-fi.patch</a>	3,85 ko	03 septembre 2019	Benjamin Dauvergne