

OpenNebula - Bug #1016

Performance issues when having lot of VMs

12/01/2011 11:17 AM - Maxence Dunnewind

Status:	Closed	Start date:	12/01/2011
Priority:	Normal	Due date:	
Assignee:	Tino Vázquez	% Done:	100%
Category:	Core & System	Estimated time:	0.00 hour
Target version:	Release 3.4 - S0	Pull request:	
Resolution:	fixed		
Affected Versions:	OpenNebula 3.0		

Description

I try to create lot of VMs in a few minutes, and triggered an issue.

- ONE 3.0 with mysql

with a few (~5) vms in the pool, time to exec requests ('onevm list a') is ok

with more vms (~30), time to exec the same request is ~4s

with again more vm (~80), time is ~ 20 vms

I added some logs to OCCl/xmlrpc to find where it takes so much time :

```
"post_compute before VirtualMachineOCCI call : Thu Dec 01 11:55:34 +0100 2011"  
"post_compute after VirtualMachineOCCI call : Thu Dec 01 11:55:34 +0100 2011"  
"post_compute after to_one_template call : Thu Dec 01 11:55:34 +0100 2011"  
"post_compute before vm.allocate call : Thu Dec 01 11:55:34 +0100 2011"  
"Before rpc call to vm.allocate : Thu Dec 01 11:55:34 +0100 2011"  
"xmlrpc : call2 : before methodCall : Thu Dec 01 11:55:34 +0100 2011"  
"xmlrpc : call2 : after methodCall : Thu Dec 01 11:55:34 +0100 2011"  
"xmlrpc : call2 : after do_rpc: Thu Dec 01 11:55:42 +0100 2011"  
"xmlrpc : call2 : after parseMethodResponse: Thu Dec 01 11:55:42 +0100 2011"  
"after rpc call to vm.allocate : Thu Dec 01 11:55:42 +0100 2011"  
"post_compute after vm.allocate call : Thu Dec 01 11:55:42 +0100 2011"
```

The time is used in do_rpc, so inside the RPC.

I started oned -f with "valgrind --tool=callgrind", I attach the dump file.

History

#1 - 12/01/2011 01:26 PM - Maxence Dunnewind

Ok,

after some more debug/analyze, it seems to be related to the quota driver. When we run the test using an user with only a few vms, it is fast. When we use an user with lot (50+) vms, it takes ages. Removing --authz quota, it is fast in all cases.

#2 - 02/01/2012 10:25 AM - Daniel Molina

- Status changed from New to Closed

- Target version set to Release 3.4

- % Done changed from 0 to 100
- Resolution set to fixed

Hi,

We have included a new Nokogiri parser for XMLRPC (bug #1017) that improves the overall performance of the clients. Also we are moving the quota authorization to the core (feature #1099) to improve considerably the performance.

#3 - 02/01/2012 11:28 AM - Ruben S. Montero

- Target version changed from Release 3.4 to Release 3.4 - S0