OpenNebula - Bug #124
Scalability problems with EC2 driver
07/08/2009 12:45 PM - Johan Tordsson

Status: Closed
Priority: Normal
Assignee: Ruben S. Montero
Category: Drivers - Auth
Target version: Release 1.4
Resolution: fixed

Start date: 07/08/2009
Due date: 
% Done: 0%
Estimated time: 0.00 hour
Pull request: 

Description

When running "a few" (problem encountered for 10 to 15) VMs, the EC2 drivers hangs (uses all CPU/memory) during polling and fails to produce updated information. As the EC2 API tools are Java-based, one Java VM is started for each VM ran by ONE. Possible solutions to this could be to tweak hardware allocation to Java VMs, or to poll all VMs in one call (ec2-describe-instances allows this).

Associated revisions

Revision 1cbd5fe0 - 09/17/2009 09:51 PM - Ruben S. Montero

#124: Added EC2_JVM_ARGS and custom number of concurrent EC2 operations

git-svn-id: http://svn.opennebula.org/one/trunk@797 3034c82b-c49b-4eb3-8279-a7acatdc01c0

Revision e99352f5 - 10/11/2016 01:45 PM - Anton Todorov

fix tm/qcow2/in fix clean before attach (#124)

Following this forum thread

Revision 64a1a19f - 10/13/2016 08:35 AM - Ruben S. Montero

Revert "fix tm/qcow2/in fix clean before attach (#124)"

This reverts commit e99352f5d94043198087a8be6a48421221e5cf5c.

Revision 1d613a98 - 10/13/2016 09:01 AM - Ruben S. Montero

Revert "Revert "fix tm/qcow2/in fix clean before attach (#124)"

This reverts commit 64a1a19f23335e69b7158773e622ed833013d4aa.

History

#1 - 07/08/2009 11:39 PM - Ruben S. Montero
- Category set to Drivers - Auth

05/09/2021
I've limited the number of simultaneous EC2 operations to 5, so there are no more than 5 Java instances at the same time. This has been committed to the development branch. Needs to be tested.

#2 - 09/07/2009 05:08 AM - riv nil

1. I reverted back the changes committed by Ruben
2. I tried adding: `EC2_JVM_ARGS=-Xms16m -Xmx64m` in "/etc/vmm_ec2/vmm_ec2rc"

No problem beyond 15 concurrent instances..

Evidently this is not an issue related to ONE rather EC2 setups..

Ruben, kindly revert-back the changes..

Thanks,

Pallab

#3 - 09/07/2009 01:13 PM - Ruben S. Montero

Thanks for the feedback!.
I think we can do the following:
- move the number of threads to the configuration file
- add the EC2_JVM_ARGS to the configuration file as you propose

In this way you can limit the number of Java instances as well.

#4 - 09/08/2009 07:53 PM - riv nil

Hi Ruben,

Normally ec2 users are limited to a maximum of 20 concurrent instances.

This is fyi only..

Thanks

Pallab

#5 - 09/17/2009 11:54 PM - Ruben S. Montero
- Status changed from New to 3
- Assignee changed from Tino Vázquez to Ruben S. Montero
- Resolution set to fixed
- Status changed from 3 to Closed