Subject: OpenVZ (RHEL6 2.6.32) and Java - kown issues?
Posted by pezi on Mon, 26 Sep 2011 18:28:34 GMT
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This is a spin-off of following Proxmox thread:
 //forum.proxmox.com/threads/6998-Best-strategy-to-handle-str
ange-JVM-errors-inside-VPS?p=39702#poststop

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Proxmox uses a somthing modified RHEL6 2.6.32-x kernel. This kernel was introduced with new Proxmox version 1.9.

But with the switch from older 2.6.32-x based Squeeze kernel to the RHEL kernel many user report strange JVM errors inside their OpenVZ container in context with Java web applications (JBoss, Tomcat, etc.)
- JVM crashes after a while
- JVM consumes 100% CPU
- WepApps is alive, but stop handling HTTP request.

Switching back to the older kernel solves these strange errors

Has someone similar problemes with Java (web-based apps) and the original RHEL based kernel?

Proxmox Server Info
proxmox:~# pveversion -v
pve-manager: 1.9-24 (pve-manager/1.9/6542)
running kernel: 2.6.32-6-pve
proxmox-ve-2.6.32: 1.9-47
pve-kernel-2.6.32-4-pve: 2.6.32-33
pve-kernel-2.6.32-6-pve: 2.6.32-47
qemu-server: 1.1-32
pve-firmware: 1.0-14
libpve-storage-perl: 1.0-19
vncterm: 0.9-2
vzctl: 3.0.29-2pve1
vzdump: 1.2-16
vzprocps: 2.0.11-2
vzquota: 3.0.11-1
pve-qemu-kvm: 0.15.0-1
ksm-control-daemon: 1.0-6

Subject: Re: OpenVZ (RHEL6 2.6.32) and Java - kown issues?
Posted by patel75jay on Fri, 30 Sep 2011 05:10:57 GMT
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Hi,
What JDK version and vendor is being used in the environment?

Subject: Re: OpenVZ (RHEL6 2.6.32) and Java - kown issues?
Posted by pezi on Mon, 03 Oct 2011 17:57:10 GMT
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Different Java Vendors:
Sun
OpenJDK (OK - this a derivate of the Sun JDK)
Java Version: 1.6.x

Same behaviour - JVM crash or stop working (web apps).
Not every Java stack has this problem, but Alfresco, Liferay, Zimbra, etc.. make problems.

But we found a solution for this problem - assign at least 2 CPU to VPS, and all will work fine.

This is very strange problem, because it seems to be hardware specific. See follwing post:
 forum.proxmox.com/threads/6998-Best-strategy-to-handle-stran
ge-JVM-errors-inside-VPS?p=39904#post39904

Subject: Re: OpenVZ (RHEL6 2.6.32) and Java - kown issues?
Posted by Petrus4 on Wed, 28 Mar 2012 03:03:11 GMT
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I had the same issue:

Debian Squeeze, Sun-java, Crashplan ProE server. after kernel upgrade all services would run
but would not listen on any ports.

After adding second CPU and rebooting the container all is working again!!

I wonder if Proxmox will patch the kernel?