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Subject: faking arch

Posted by [dlzinc](#) on Tue, 23 May 2006 21:10:49 GMT

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I have a 64-bit system running a 64-bit kernel and a mix of CentOS 64-bit and CentOS 32-bit VEs. The problem is that some software uses the (uname) arch to determine whether the system is running a 64-bit OS or a 32-bit OS, of course it gets confused when it can't find 64-bit libraries in CentOS 32-bit...

Is there a way I can fake arch per-vps? i.e. have it so that calls made to the kernel requesting it to report the arch will report x64\_64 for some VEs and i686/i386 for others?

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Subject: Re: faking arch

Posted by [almahdi](#) on Sat, 24 Jun 2006 07:11:01 GMT

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You may want to replace the uname binary with this simple bash script:

```
#!/bin/bash

case "$1" in
'-a')
    echo "Linux $HOSTNAME 2.6.13 #1 Sat Sep 3 21:11:20 PDT 2005 i686 unknown unknown
GNU/Linux"
    ;;
'-n')
    echo "$HOSTNAME"
    ;;
'-r')
    echo "2.6.13"
    ;;
'-v')
    echo "#1 Sat Sep 3 21:11:20 PDT 2005"
    ;;
'-m')
    echo "i686"
    ;;
'-p')
    echo "unknown"
    ;;
'-i')
    echo "unknown"
    ;;
'-o')
    echo "GNU/Linux"
    ;;
;;
```

```
*)  
  echo "Linux"  
esac
```

Dont forget to give it executable rights.

You may want to change the kernel version too..

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Subject: Re: faking arch  
Posted by [dev](#) on Sun, 25 Jun 2006 07:14:43 GMT  
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there is so called setarch.rpm with setarch utility exactly for this. Also, starting from some version vzctl should call setarch itself if VPS init is 32bit.

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Subject: Re: faking arch  
Posted by [dlzinc](#) on Mon, 26 Jun 2006 02:27:31 GMT  
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The uname script only works for things that actually call /bin/uname. At the moment, I've replaced /bin/bash with a slightly modified setarch that setarch's then runs the real bash. Is there a bug open or version-eta for the vzctl setarch feature?

Something interesting...

If I do:

```
setarch i686 vzctl start 200
```

then SSH into the VPS and do `uname -ar`, it will say i686. If I do `vzctl enter 200`, it'll say x86\_64.

So for now, a "cleaner" solution seems to be doing setarch to vzctl.

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Subject: Re: faking arch  
Posted by [dev](#) on Mon, 26 Jun 2006 08:34:59 GMT  
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Can you please post a bug in <http://bugzilla.openvz.org>, Igor will check then.  
This will help tracking and make sure it will be fixed, not lost.

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