

RhodeCode CE/EE - Bug #5434

Locale problem

02.02.2018 14:55 - Nikolay Yankin

Status: Resolved	Start date: 02.02.2018
Priority: Immediate	Due date:
Assignee:	% Done: 0%
Category:	Estimated time: 0.00 hour
Target version: v4.11	Spent time: 0.00 hour
Sorting:	Affected Version: v4.10, v4.11
Commit Number:	
Description	
Same problem as described here https://issues.rhodecode.com/issues/5297 on Gentoo x64	
Problem was appeared after upgrading from 4.9.1 to 4.11.1 (4.10.6 also affected)	

History

#1 - 02.02.2018 14:56 - Nikolay Yankin

I tried locales en_US.UTF-8 and ru_RU.UTF-8, both correctly installed in my system.

#2 - 02.02.2018 15:00 - Marcin Kuzminski [staff]

have you tried to set LC_ALL ? to specific locale on your machine

What's the output of locale

#3 - 02.02.2018 15:00 - Marcin Kuzminski [staff]

there were 0 changes on this code since 4.9, so i expect env changes that caused this... does install 4.9.0 alongside not have this problem?

#4 - 02.02.2018 15:18 - Nikolay Yankin

```
repo ~ # locale
LANG=en_US.utf8
LC_CTYPE="en_US.utf8"
LC_NUMERIC="en_US.utf8"
LC_TIME="en_US.utf8"
LC_COLLATE="en_US.utf8"
LC_MONETARY="en_US.utf8"
LC_MESSAGES="en_US.utf8"
LC_PAPER="en_US.utf8"
LC_NAME="en_US.utf8"
LC_ADDRESS="en_US.utf8"
LC_TELEPHONE="en_US.utf8"
LC_MEASUREMENT="en_US.utf8"
LC_IDENTIFICATION="en_US.utf8"
LC_ALL=
```

#5 - 02.02.2018 16:13 - Nikolay Yankin

Simple script

```
import locale
loc_list = [(a,b) for a,b in locale.locale_alias.items() ]
loc_size = len(loc_list)
print loc_size, 'entries'

for loc in loc_list:
    try:
        locale.setlocale(locale.LC_TIME, loc[1])
        print 'SUCCES set {:12} ({}).format(loc[1],loc[0])
    except:
        pass
```

ran by python test.py shows

```
970 entries
SUCCES set C (c.ascii)
SUCCES set C (c.en)
SUCCES set C (c)
SUCCES set C (posix-utf2)
SUCCES set C (c_c)
SUCCES set C (c_c.c)
SUCCES set en_US.UTF-8 (universal.utf8@ucs4)
SUCCES set C (posix)
SUCCES set C (english_united-states.437)
SUCCES set ru_RU.UTF-8 (ru_ru)
SUCCES set en_US.UTF-8 (c.utf8)
SUCCES set ru_RU.UTF-8 (ru)
```

but throught ishell shows only

```
970 entries
SUCCES set C (posix-utf2)
SUCCES set C (english_united-states.437)
SUCCES set C (c_c.c)
SUCCES set C (posix)
SUCCES set C (c.en)
SUCCES set C (c_c)
SUCCES set C (c.ascii)
SUCCES set C (c)
```

#6 - 02.02.2018 16:17 - Marcin Kuzminski [staff]

can you check

~/rccontrol/supervisord.ini ?

It can have this:

```
[supervisord]
minfds = 1024
minprocs = 200
loglevel = info
environment = HOME=/home/ubuntu,LANG=en_US.UTF-8,LC_ALL=en_US.UTF-8
strip_ansi = true
logfile = /home/ubuntu/.rccontrol/supervisor/supervisord.log
pidfile = /home/ubuntu/.rccontrol/supervisor/supervisord.pid
```

#7 - 02.02.2018 16:45 - Nikolay Yankin

```
[supervisord]
minfds = 1024
minprocs = 200
loglevel = info
environment = HOME=/root,LANG=en_US.UTF-8
strip_ansi = true
logfile = /root/.rccontrol/supervisor/supervisord.log
pidfile = /root/.rccontrol/supervisor/supervisord.pid
```

#8 - 02.02.2018 16:47 - Marcin Kuzminski [staff]

can you add LC_ALL there, and run rccontrol self-stop && rccontrol self-init

#9 - 02.02.2018 16:58 - Nikolay Yankin

Nothing changed, but i tested 4.7.0, 4.8.0, 4.9.1 and problem appear on all these versions.

So, problem not only in RhodeCode, probably it appeared after upgrade glibc from 2.25 to 2.26

#10 - 02.02.2018 17:10 - Marcin Kuzminski [staff]

might be, we got odd locale issues on multiple of our own server after some recent package updates...

But i'm not sure how to resolve this...

#11 - 02.02.2018 17:55 - Nikolay Yankin

Try to update python to 2.7.14 and glibc to 2.25 in you bundles. Do you have night or test builds? Or how i can update this packages manually?

#12 - 02.02.2018 18:12 - Marcin Kuzminski [staff]

WE use a nix package manager, and it has pinned older python/glibc

- we're on upgrading those but it's probably bigger task for next release

This ticket is interesting: <https://github.com/NixOS/nix/issues/599>

Maybe an option is to set LOCAL_ARCHIVES ?

But anyway it's odd that setting env LC_ALL via supervisor doesn't resolve that problem...

#13 - 02.02.2018 19:58 - Nikolay Yankin

Setting LOCALE_ARCHIVE=/usr/lib64/locale/locale-archive in .rccontrol/supervisor/supervisord.ini fixes the problem

#14 - 16.02.2018 12:05 - Marcin Kuzminski [staff]

- Status changed from New to Resolved

#15 - 12.04.2018 15:36 - Sefter Aras

i have the same problem on openSuse 42.3, the LOCALE_ARCHIVE=/usr/lib64/locale/locale-archive doesn't exists

my supervisord.ini:

```
[supervisord]
minfds = 1024
minprocs = 200
loglevel = info
environment = LOCALE_ARCHIVE=/usr/lib/locale/locale-archive,HOME=/root,LANG=en_US.UTF-8,LC_ALL=en_US.UTF-8
strip_ansi = true
```

it's not working for me :(

do you have any other ideas?

here my log:

```
Error: unsupported locale setting
[2018-04-12 15:31:08 +0000] [30837] [INFO] Worker exiting (pid: 30837)
Traceback (most recent call last):
File "/opt/rhocodecode/store/9k60d775bg7fvpvbmxd9hz1r2558j-python2.7-gunicorn-19.7.1/bin/.gunicorn-wrapped", line 12, in
sys.exit(run())
File "/opt/rhocodecode/store/9k60d775bg7fvpvbmxd9hz1r2558j-python2.7-gunicorn-19.7.1/lib/python2.7/site-packages/gunicorn/app/wsgiapp.py",
line 74, in run
WSGIApplication("%(prog)s [OPTIONS] [APP_MODULE]").run()
File "/opt/rhocodecode/store/9k60d775bg7fvpvbmxd9hz1r2558j-python2.7-gunicorn-19.7.1/lib/python2.7/site-packages/gunicorn/app/base.py", line
203, in run
super(Application, self).run()
File "/opt/rhocodecode/store/9k60d775bg7fvpvbmxd9hz1r2558j-python2.7-gunicorn-19.7.1/lib/python2.7/site-packages/gunicorn/app/base.py", line
72, in run
Arbiter(self).run()
File "/opt/rhocodecode/store/9k60d775bg7fvpvbmxd9hz1r2558j-python2.7-gunicorn-19.7.1/lib/python2.7/site-packages/gunicorn/arbiter.py", line 231,
in run
self.halt(reason=inst.reason, exit_status=inst.exit_status)
File "/opt/rhocodecode/store/9k60d775bg7fvpvbmxd9hz1r2558j-python2.7-gunicorn-19.7.1/lib/python2.7/site-packages/gunicorn/arbiter.py", line 344,
in halt
self.stop()
File "/opt/rhocodecode/store/9k60d775bg7fvpvbmxd9hz1r2558j-python2.7-gunicorn-19.7.1/lib/python2.7/site-packages/gunicorn/arbiter.py", line 393,
in stop
time.sleep(0.1)
File "/opt/rhocodecode/store/9k60d775bg7fvpvbmxd9hz1r2558j-python2.7-gunicorn-19.7.1/lib/python2.7/site-packages/gunicorn/arbiter.py", line 244,
in handle_chld
self.reap_workers()
File "/opt/rhocodecode/store/9k60d775bg7fvpvbmxd9hz1r2558j-python2.7-gunicorn-19.7.1/lib/python2.7/site-packages/gunicorn/arbiter.py", line 524,
```

```
in reap_workers
raise HaltServer(reason, self.WORKER_BOOT_ERROR)
unicorn.errors.HaltServer:
/opt/rhocode/store/bc656fqasmx1jmkglarvapy244bbh7dg-bash-4.3-p42/bin/bash: warning: setlocale: LC_ALL: cannot change locale
(en_US.UTF-8)
/opt/rhocode/store/bc656fqasmx1jmkglarvapy244bbh7dg-bash-4.3-p42/bin/bash: warning: setlocale: LC_ALL: cannot change locale
(en_US.UTF-8)
```

#16 - 13.04.2018 10:40 - Marcin Kuzminski [staff]

Hi,

Have you rebooted rhocode after those changes ?

Maybe it's related to supervisord not loading those settings

#17 - 13.04.2018 11:17 - Sefter Aras

yes

```
rccontrol self-stop && rccontrol self-init
```

it's correct so? or did you mean server reboot?

#18 - 13.04.2018 11:26 - Marcin Kuzminski [staff]

Hmm, not sure then, maybe it's related to different Bash profile.

what's the output of locale when you run it via the profile rhocode is running?

#19 - 13.04.2018 11:27 - Sefter Aras

```
LANG=de_DE.UTF-8
LC_CTYPE="de_DE.UTF-8"
LC_NUMERIC="de_DE.UTF-8"
LC_TIME="de_DE.UTF-8"
LC_COLLATE="de_DE.UTF-8"
LC_MONETARY="de_DE.UTF-8"
LC_MESSAGES="de_DE.UTF-8"
LC_PAPER="de_DE.UTF-8"
LC_NAME="de_DE.UTF-8"
LC_ADDRESS="de_DE.UTF-8"
LC_TELEPHONE="de_DE.UTF-8"
LC_MEASUREMENT="de_DE.UTF-8"
LC_IDENTIFICATION="de_DE.UTF-8"
LC_ALL=
```

#20 - 13.04.2018 11:31 - Marcin Kuzminski [staff]

yes so problem is that LC_ALL isn't set.

Can you add LC_ALL in your profile maybe?

#21 - 13.04.2018 11:55 - Sefter Aras

de_DE.UTF-8 or en_US.UTF-8 ?

#22 - 16.04.2018 14:24 - Sefter Aras

if i set LC_ALL then i got this error on rccontrol start vcserver-1

```
/opt/rhodecode/store/bc656fqasmx1jmkglarvapy244bbh7dg-bash-4.3-p42/bin/bash: warning: setlocale: LC_ALL: cannot change locale (de_DE.UTF-8)
```

```
/opt/rhodecode/store/bc656fqasmx1jmkglarvapy244bbh7dg-bash-4.3-p42/bin/bash: warning: setlocale: LC_ALL: cannot change locale (de_DE.UTF-8)
```

and i have the same error log entry above

#23 - 18.04.2018 09:44 - Nikolay Yankin

Sefter Aras, In your system LOCALE_ARCHIVE need to be set to another path. Maybe to /usr/lib/locale/locale-archive
Try to run 'locate locale-archive'

#24 - 19.04.2018 11:28 - Sefter Aras

locate locale-archive

If 'locate' is not a typo you can use command-not-found to lookup the package that contains it, like this:
cnf locate

doesn't work

#25 - 19.04.2018 12:09 - Sefter Aras

OK, i have installed the locate util for opensuse

locate locale-archive

/usr/lib/locale/locale-archive

#26 - 19.04.2018 12:11 - Sefter Aras

But this path i have already set, this change nothing

#27 - 19.04.2018 12:47 - Sefter Aras

i feel that my settings doesn't work:

my supervisord.ini:

```
[supervisord]
minfds = 1024
minprocs = 200
loglevel = info
```

```
environment = LOCALE_ARCHIVE=/usr/lib/locale/locale-archive,HOME=/root,LANG=en_US.UTF-8,LC_ALL=en_US.UTF-8
strip_ansi = true
```

#28 - 19.04.2018 12:57 - Marcin Kuzminski [staff]

after changes in supervisor.ini did you run `rccontrol self-stop` && `rccontrol self-init` ?

#29 - 25.07.2018 12:57 - Marcin Kuzminski [staff]

We've identified the problem for now. It looks like since glibc 2.27 the generated locale broke backward compatibility. We've yet not found a solution to this problem, the only thing right now is to potentially either re-generate the locale-archives using older glibc or downgrade glibc to pre 2.27

#30 - 03.09.2018 18:26 - Systems Administration

I was using 4.12.4 and the problem appeared after upgrading from Ubuntu Xenial (16.04) to Ubuntu Bionic (18.04).

#31 - 03.09.2018 18:28 - Marcin Kuzminski [staff]

Here's a workaround:

```
Fedora 23 / Ubuntu 18.04
-----
```

[RCC] has a know problem with locales, due to changes in glibc 2.27+ which affects the locale-archive format, which is now incompatible with our used glibc 2.26.

To work around this problem, you need set path to ```$LOCAL_ARCHIVE``` to the locale package in older pre glibc 2.27 format, or set `LC_ALL=C` in your enviroment.

To use the pre 2.27 locale-archive fix follow these steps:

1. Download the pre 2.27 locale-archive package

```
.. code-block:: bash
```

```
wget https://dls.rhodecode.com/assets/locale-archive
```

2. Point ```$LOCAL_ARCHIVE``` to the locale package.

```
.. code-block:: bash
```

```
$ export LOCALE_ARCHIVE=/home/USER/locale-archive # change to your path
```

This can either added in `~/rccontrol/supervisor/supervisord.ini` or in user `.bashrc/.zshrc` etc, or via a startup script that runs `rccontrol self-init`

