



链滴

# Redis 集群环境安装

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```
<p>&lt;font size=4&gt;<strong><strong>集群管理工具: </strong></strong> redis-trib.rb</>
</p>
<blockquote>
<p>redis-trib.rb 是 redis 官方推出的用 Ruby 开发的 redis 集群的工具, 集成在源码包的 src 目录, redis 集群需要先安装 ruby 环境。 </p>
</blockquote>
<p><strong><strong>工具介绍</strong></strong></p>
<blockquote>
<p>gem: Ruby 第三方插件、模块管理工具<br>
rvm: Ruby 多版本环境的切换、管理工具<br>
</p>
</blockquote>
<h2 id="1-安装Ruby环境">1.安装 Ruby 环境</h2>
```

```
[root@linkdood ~]# yum install -y ruby rubygems #(ruby软件包管理器)
[root@linkdood ~]# ruby --version #查询ruby当前版本, 安装gem插件要求ruby版本&
t;=2.2.2
ruby 1.8.7 (2013-06-27 patchlevel 374) [x86_64-linux]
```

```
<h2 id="2-安装Redis插件">2.安装 Redis 插件</h2>
```

```
[root@linkdood src]# gem install redis
ERROR: Error installing redis:
redis requires Ruby version &gt;= 2.2.2. #要求Ruby版本&gt;=2.2.2
```

## 3.升级Ruby版本

### 3.1.源码安装新版本

```
<h3 id="3-3-rvm安装新版本">3.3.rvm 安装新版本</h3>
<p>&lt;font size=4&gt; 安装 rvm 管理工具</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">[root@linkdood src]# curl -L get.rvm.io | bash -s stable
</span></span><span class="highlight-line"><span class="highlight-cl"> % Total % Rece
ved % Xferd Average Speed Time Time Current
</span></span><span class="highlight-line"><span class="highlight-cl">
Dload Upload Total Spent Left Speed
</span></span><span class="highlight-line"><span class="highlight-cl">100 24361 100 2
361 0 0 7836 0 0:00:03 0:00:03 --:--:-- 14279
</span></span><span class="highlight-line"><span class="highlight-cl">Downloading http
://github.com/rvm/rvm/archive/1.29.4.tar.gz
</span></span><span class="highlight-line"><span class="highlight-cl">Downloading http
://github.com/rvm/rvm/releases/download/1.29.4/1.29.4.tar.gz.asc
</span></span><span class="highlight-line"><span class="highlight-cl">gpg: Signature m
de Mon 02 Jul 2018 03:41:26 AM CST using RSA key ID BF04FF17
</span></span><span class="highlight-line"><span class="highlight-cl">gpg: Can't check s
gnature: No public key
</span></span><span class="highlight-line"><span class="highlight-cl">Warning, RVM 1.2
.0 introduces signed releases and automated check of signatures when GPG software found.
ssuming you trust Michal Papis import the mpapis public key (downloading the signatures).
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">GPG signature veri
```

```

ication failed for '/usr/local/rvm/archives/rvm-1.29.4.tgz' - 'https://github.com/rvm/rvm/releases/download/1.29.4/1.29.4.tar.gz.asc'! Try to install GPG v2 and then fetch the public key:
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> gpg2 --recv-keys 409B6B1796C275462A1703113804BB82D39DC0E3
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> or if it fails:
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> command curl -SL https://rvm.io/mpapis.asc | gpg2 --import -
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> the key can be compared with:
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> https://rvm.io/mpapis
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> https://keybase.io/mpapis
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> NOTE: GPG version 2.1.17 have a bug which cause failures during fetching keys from remote server. Please downgrade or upgrade to newer version (if available) or use the second method described above.
</span> </span> </code> </pre>
<p>导入公钥，并继续安装</p>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> [root@linkdood src]# curl -sSL https://rvm.io/mpapis.asc | gpg2 --import -
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> gpg: key D39DC03: public key "Michal Papis (RVM signing) &lt;mpapis@gmail.com&gt;" imported
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> gpg: Total number processed: 1
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> gpg: imported: 1 (RSA: 1)
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> gpg: no ultimately trusted keys found
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> [root@linkdood sr]# curl -L get.rvm.io | bash -s stable
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> % Total % Received % Xferd Average Speed Time Time Time Current
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
Dload Upload Total Spent Left Speed
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> 100 24361 100 2361 0 0 3780 0 0:00:06 0:00:06 --:--:-- 10.8M
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> Downloading http://github.com/rvm/rvm/archive/1.29.4.tar.gz
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> Downloading http://github.com/rvm/rvm/releases/download/1.29.4/1.29.4.tar.gz.asc
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> gpg: Signature made Mon 02 Jul 2018 03:41:26 AM CST using RSA key ID BF04FF17
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> gpg: Good signature from "Michal Papis (RVM signing) &lt;mpapis@gmail.com&gt;"
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> gpg: aka "Michal Papis &lt;michal.papis@toptal.com&gt;"

```

```

</span></span><span class="highlight-line"><span class="highlight-cl">gpg:          aka
"[jpeg image of size 5015]"
</span></span><span class="highlight-line"><span class="highlight-cl">gpg: WARNING: T
is key is not certified with a trusted signature!
</span></span><span class="highlight-line"><span class="highlight-cl">gpg:          There is
no indication that the signature belongs to the owner.
</span></span><span class="highlight-line"><span class="highlight-cl">Primary key finge
print: 409B 6B17 96C2 7546 2A17 0311 3804 BB82 D39D C0E3
</span></span><span class="highlight-line"><span class="highlight-cl">Subkey fingerp
int: 62C9 E5F4 DA30 0D94 AC36 166B E206 C29F BF04 FF17
</span></span><span class="highlight-line"><span class="highlight-cl">GPG verified '/usr/
ocal/rvm/archives/rvm-1.29.4.tgz'
</span></span><span class="highlight-line"><span class="highlight-cl">Creating group 'r
m'
</span></span><span class="highlight-line"><span class="highlight-cl">Installing RVM to
usr/local/rvm/
</span></span><span class="highlight-line"><span class="highlight-cl">Installation of RV
in /usr/local/rvm/ is almost complete:
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">* First you need
o add all users that will be using rvm to 'rvm' group,
</span></span><span class="highlight-line"><span class="highlight-cl">and logout - log
n again, anyone using rvm will be operating with `umask u=rwx,g=rwx,o=rx`.
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">* To start using
VM you need to run `source /etc/profile.d/rvm.sh`
</span></span><span class="highlight-line"><span class="highlight-cl">in all your open
shell windows, in rare cases you need to reopen all shell windows.
</span></span><span class="highlight-line"><span class="highlight-cl">* Please do NOT
orget to add your users to the rvm group.
</span></span><span class="highlight-line"><span class="highlight-cl">The installer no
longer auto-adds root or users to the rvm group. Admins must do this.
</span></span><span class="highlight-line"><span class="highlight-cl">Also, please no
e that group memberships are ONLY evaluated at login time.
</span></span><span class="highlight-line"><span class="highlight-cl">This means tha
users must log out then back in before group membership takes effect!》`
</span></span></code></pre>
<p>执行命令</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">source /etc/profile.d/rvm.sh
</span></span></code></pre>
<p>重新打开 session,查询可用版本</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">[root@linkdood ~]# rvm list known
</span></span><span class="highlight-line"><span class="highlight-cl"># MRI Rubies
</span></span><span class="highlight-line"><span class="highlight-cl">[ruby-]1.8.6[-p420

</span></span><span class="highlight-line"><span class="highlight-cl">[ruby-]1.8.7[-head]
# security released on head
</span></span><span class="highlight-line"><span class="highlight-cl">[ruby-]1.9.1[-p431

</span></span><span class="highlight-line"><span class="highlight-cl">[ruby-]1.9.2[-p330

</span></span><span class="highlight-line"><span class="highlight-cl">[ruby-]1.9.3[-p551

```

```
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> [ruby-]2.0.0[-p648
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> [ruby-]2.1[.10]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> [ruby-]2.2[.10]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> [ruby-]2.3[.7]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> [ruby-]2.4[.4]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> [ruby-]2.5[.1]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> [ruby-]2.6[.0-previ
w2]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> ruby-head
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> # for forks use: rv
install ruby-head- &lt;name&gt; --url https://github.com/github/ruby.git --branch 2.2
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> # JRuby
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> jruby-1.6[.8]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> jruby-1.7[.27]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> jruby-9.1[.17.0]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> jruby[-9.2.0.0]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> jruby-head
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> # Rubinius
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> rbx-1[.4.3]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> rbx-2.3[.0]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> rbx-2.4[.1]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> rbx-2[.5.8]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> rbx-3[.100]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> rbx-head
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> # TruffleRuby
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> truffleruby[-1.0.0-
c2]
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> # Opal
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> opal
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> # Minimalistic rub
implementation - ISO 30170:2012
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> mruby-1.0.0
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> mruby-1.1.0
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> mruby-1.2.0
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> mruby-1.3.0
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> mruby-1[.4.0]
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> mruby[-head]
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> # Ruby Enterprise
Edition
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> ree-1.8.6
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> ree[-1.8.7][-2012.
2]
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> # Topaz
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> topaz
```

```

</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl"># MagLev
</span></span><span class="highlight-line"><span class="highlight-cl">maglev-1.0.0
</span></span><span class="highlight-line"><span class="highlight-cl">maglev-1.1[RC1]
</span></span><span class="highlight-line"><span class="highlight-cl">maglev[-1.2Alpha
]
</span></span><span class="highlight-line"><span class="highlight-cl">maglev-head
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl"># Mac OS X Snow
Leopard Or Newer
</span></span><span class="highlight-line"><span class="highlight-cl">macruby-0.10
</span></span><span class="highlight-line"><span class="highlight-cl">macruby-0.11
</span></span><span class="highlight-line"><span class="highlight-cl">macruby[-0.12]
</span></span><span class="highlight-line"><span class="highlight-cl">macruby-nightly
</span></span><span class="highlight-line"><span class="highlight-cl">macruby-head
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl"># IronRuby
</span></span><span class="highlight-line"><span class="highlight-cl">ironruby[-1.1.3]
</span></span><span class="highlight-line"><span class="highlight-cl">ironruby-head
</span></span></code></pre>
<p>安装 Ruby2.4.0 版本</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">[root@linkdood ~]# rvm install 2.4.0
</span></span><span class="highlight-line"><span class="highlight-cl">Searching for bina
y rubies, this might take some time.
</span></span><span class="highlight-line"><span class="highlight-cl">Found remote file
https://rvm_io.global.ssl.fastly.net/binaries/centos/6/x86_64/ruby-2.4.0.tar.bz2
</span></span><span class="highlight-line"><span class="highlight-cl">Checking require
ents for centos.
</span></span><span class="highlight-line"><span class="highlight-cl">Installing require
ents for centos.
</span></span><span class="highlight-line"><span class="highlight-cl">Installing required
packages: libffi-devel, sqlite-devel.....
</span></span><span class="highlight-line"><span class="highlight-cl">Requirements inst
llation successful.
</span></span><span class="highlight-line"><span class="highlight-cl">ruby-2.4.0 - #conf
gure
</span></span><span class="highlight-line"><span class="highlight-cl">ruby-2.4.0 - #dow
load
</span></span><span class="highlight-line"><span class="highlight-cl"> % Total % Rece
ved % Xferd Average Speed Time Time Time Current
</span></span><span class="highlight-line"><span class="highlight-cl">
Dload Upload Total Spent Left Speed
</span></span><span class="highlight-line"><span class="highlight-cl">100 15.5M 100 15
5M 0 0 23607 0 0:11:30 0:11:30 --:--:-- 39323
</span></span><span class="highlight-line"><span class="highlight-cl">No checksum for
ownloaded archive, recording checksum in user configuration.
</span></span><span class="highlight-line"><span class="highlight-cl">ruby-2.4.0 - #vali
ate archive
</span></span><span class="highlight-line"><span class="highlight-cl">ruby-2.4.0 - #extr
ct
</span></span><span class="highlight-line"><span class="highlight-cl">ruby-2.4.0 - #vali
ate binary
</span></span><span class="highlight-line"><span class="highlight-cl">Libraries missing f

```

```

r ruby-2.4.0: libyaml-0.so.2. Refer to your system manual for installing libraries
Mounting remote
uby failed with status 10, trying to compile.
Checking require
ents for centos.
Requirements inst
llation successful.
Installing Ruby fr
m source to: /usr/local/rvm/rubies/ruby-2.4.0, this may take a while depending on your cpu(s).
.
ruby-2.4.0 - #dow
loading ruby-2.4.0, this may take a while depending on your connection...
 % Total    % Rece
ved % Xferd Average Speed Time   Time   Time  Current
Dload Upload Total Spent Left Speed
100 11.9M  100 11
9M  0   0 13912   0 0:15:03 0:15:03 --:--:-- 16099
ruby-2.4.0 - #extr
cting ruby-2.4.0 to /usr/local/rvm/src/ruby-2.4.0....
ruby-2.4.0 - #appl
ing patch /usr/local/rvm/patches/ruby/2.4.0/ruby_2_4_gcc7.patch.
ruby-2.4.0 - #appl
ing patch /usr/local/rvm/patches/ruby/2.4.0/random_c_using_NR_prefix.patch.
ruby-2.4.0 - #conf
guring.....
ruby-2.4.0 - #post
configuration..
ruby-2.4.0 - #com
iling.....|
.....
ruby-2.4.0 - #insta
ling.....
ruby-2.4.0 - #mak
ng binaries executable..
ruby-2.4.0 - #dow
loading rubygems-2.7.7
 % Total    % Rece
ved % Xferd Average Speed Time   Time   Time  Current
Dload Upload Total Spent Left Speed
100 894k  100 8
4k  0   0 24053   0 0:00:38 0:00:38 --:--:-- 14368
No checksum for
ownloaded archive, recording checksum in user configuration.
ruby-2.4.0 - #extr
cting rubygems-2.7.7.....
.....
ruby-2.4.0 - #rem
oving old rubygems.....
ruby-2.4.0 - #insta
ling rubygems-2.7.7.....
ruby-2.4.0 - #gem

```

```

et created /usr/local/rvm/gems/ruby-2.4.0@global
</span></span> <span class="highlight-line"> <span class="highlight-cl"> ruby-2.4.0 - #imp
rting gemset /usr/local/rvm/gemsets/global.gems.....
</span></span> <span class="highlight-line"> <span class="highlight-cl"> ruby-2.4.0 - #gene
ating global wrappers.....
</span></span> <span class="highlight-line"> <span class="highlight-cl"> ruby-2.4.0 - #gem
et created /usr/local/rvm/gems/ruby-2.4.0
</span></span> <span class="highlight-line"> <span class="highlight-cl"> ruby-2.4.0 - #imp
rting gemsetfile /usr/local/rvm/gemsets/default.gems evaluated to empty gem list
</span></span> <span class="highlight-line"> <span class="highlight-cl"> ruby-2.4.0 - #gene
ating default wrappers.....
</span></span> <span class="highlight-line"> <span class="highlight-cl"> ruby-2.4.0 - #adju
ting #shebangs for (gem irb erb ri rdoc testrb rake).
</span></span> <span class="highlight-line"> <span class="highlight-cl"> Install of ruby-2.4.
- #complete
</span></span> <span class="highlight-line"> <span class="highlight-cl"> Please be aware t
at you just installed a ruby that requires 2 patches just to be compiled on an up to date linux
ystem.
</span></span> <span class="highlight-line"> <span class="highlight-cl"> This may have kn
wn and unaccounted for security vulnerabilities.
</span></span> <span class="highlight-line"> <span class="highlight-cl"> Please consider u
grading to ruby-2.5.1 which will have all of the latest security patches.
</span></span> <span class="highlight-line"> <span class="highlight-cl"> Ruby was built wi
hout documentation, to build it run: rvm docs generate-ri
</span></span></code></pre>
<p>查询 Ruby 版本，已经升级到 2.4.0</p>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> [root@linkdood ~]# ruby --version
</span></span> <span class="highlight-line"> <span class="highlight-cl"> ruby 2.4.0p0 (201
-12-24 revision 57164) [x86_64-linux]
</span></span></code></pre>

```

## 4.安装 Redis 插件

&gt;注意：这里默认安装了redis-4.0.2.gem，如果redis版本是3.2的。一定要注意安装的插件版本，则在集群调整的时候会报错

```

<p>安装默认版本</p>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> [root@linkdood ~]# gem install redis
</span></span> <span class="highlight-line"> <span class="highlight-cl"> Fetching: redis-4.0
2.gem (100%)
</span></span> <span class="highlight-line"> <span class="highlight-cl"> Successfully instal
ed redis-4.0.2
</span></span> <span class="highlight-line"> <span class="highlight-cl"> Parsing document
tion for redis-4.0.2
</span></span> <span class="highlight-line"> <span class="highlight-cl"> Installing ri docu
mentation for redis-4.0.2
</span></span> <span class="highlight-line"> <span class="highlight-cl"> Done installing do
umentation for redis after 2 seconds
</span></span> <span class="highlight-line"> <span class="highlight-cl"> 1 gem installed
</span></span></code></pre>
<p>安装指定版本</p>

```



```
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl">[root@linkdood src]# gem uninstall redis
</span> </span> <span class="highlight-line"> <span class="highlight-cl">Successfully uninstalled redis-4.0.1
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl">[root@linkdood sr
]# gem install redis -v 3.3.5
</span> </span> <span class="highlight-line"> <span class="highlight-cl">Fetching: redis-3.3
5.gem (100%)
</span> </span> <span class="highlight-line"> <span class="highlight-cl">Successfully instal
ed redis-3.3.5
</span> </span> <span class="highlight-line"> <span class="highlight-cl">Parsing document
tion for redis-3.3.5
</span> </span> <span class="highlight-line"> <span class="highlight-cl">Installing ri docu
mentation for redis-3.3.5
</span> </span> <span class="highlight-line"> <span class="highlight-cl">Done installing do
umentation for redis after 2 seconds
</span> </span> <span class="highlight-line"> <span class="highlight-cl">1 gem installed
</span> </span> </code> </pre>
```

## 5. 插件版本导致的故障

```
[root@linkdood src]# ./redis-trib.rb rebalance 127.0.0.1:7001
&gt;&gt;&gt; Performing Cluster Check (using node 127.0.0.1:7001)
[OK] All nodes agree about slots configuration.
&gt;&gt;&gt; Check for open slots...
[WARNING] Node 127.0.0.1:7001 has slots in migrating state (449).
[WARNING] Node 127.0.0.1:7007 has slots in importing state (449).
[WARNING] The following slots are open: 449
&gt;&gt;&gt; Check slots coverage...
[OK] All 16384 slots covered.
*** Please fix your cluster problems before rebalancing
```

按照提示执行fix

```
[root@linkdood src]# ./redis-trib.rb fix 127.0.0.1:7001
&gt;&gt;&gt; Performing Cluster Check (using node 127.0.0.1:7001)
M: 61c43cb315147539f9caa87d0bc0d5a192bb9c02 127.0.0.1:7001
  slots:449-5460 (5012 slots) master
  1 additional replica(s)
M: 25d28f19dfaf789d09c5dc091151388fafa63c7e 127.0.0.1:7007
  slots:0-448,5461-6826,10923-12287 (3180 slots) master
  1 additional replica(s)
M: 8fb4e01999d75f2c0e305e9ea316aa0b057f0c60 127.0.0.1:7003
  slots:12288-16383 (4096 slots) master
  1 additional replica(s)
S: 6a5dea4ff0e869f00321f10f42bb3da6ec69ff2e 127.0.0.1:7005
  slots: (0 slots) slave
  replicates f54ccc62e76f51e387740188aa5f2321f299e8d2
S: 32870cdc5a156a58660d1d8d55c23a6fbc444ba0 127.0.0.1:7008
  slots: (0 slots) slave
  replicates 25d28f19dfaf789d09c5dc091151388fafa63c7e
S: 0623c55d544ad33d5f2eb7b90a1a45c29e081ad6 127.0.0.1:7006
```

```
slots: (0 slots) slave
replicates 8fb4e01999d75f2c0e305e9ea316aa0b057f0c60
M: f54ccc62e76f51e387740188aa5f2321f299e8d2 127.0.0.1:7002
slots:6827-10922 (4096 slots) master
1 additional replica(s)
S: d6e52443eb69eec219e1a3d27caaabb0b8a1e43b 127.0.0.1:7004
slots: (0 slots) slave
replicates 61c43cb315147539f9caa87d0bc0d5a192bb9c02
[OK] All nodes agree about slots configuration.
>>> Check for open slots...
[WARNING] Node 127.0.0.1:7001 has slots in migrating state (449).
[WARNING] Node 127.0.0.1:7007 has slots in importing state (449).
[WARNING] The following slots are open: 449
>>> Fixing open slot 449
Set as migrating in: 127.0.0.1:7001
Set as importing in: 127.0.0.1:7007
Moving slot 449 from 127.0.0.1:7001 to 127.0.0.1:7007:
[ERR] Calling MIGRATE: ERR Syntax error, try CLIENT (LIST | KILL | GETNAME | SETNAME | PAUSE | REPLY)
<pre> <code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">解决方法, 卸载当前redis插件, 安装与Redis版本匹配的插件
</span> </span> </code> </pre>
<p>[root@linkdood src]# gem uninstall redis<br>
Successfully uninstalled redis-4.0.1 </p>
<p>[root@linkdood src]# gem install redis -v xxx<br>
Fetching: redis-3.3.5.gem (100%)<br>
Successfully installed redis-3.3.5<br>
Parsing documentation for redis-3.3.5<br>
Installing ri documentation for redis-3.3.5<br>
Done installing documentation for redis after 2 seconds<br>
1 gem installed</p>
<pre> <code class="highlight-chroma"></code> </pre>
```