CentOS 7系列更换CentOS Vault源

一、说明

    CentOS 7于2014年正式发布，最新版本为2020年推出的CentOS7.9，并于2024年6月30日正式EOL。同centos6一样，在结束生命周期后，centos默认的源解析地址将不可用，需要手动更换成CentOS Vault源，该文件夹提供已经不受支持的 CentOS（不含 CentOS Stream）的历史归档。

二、故障详情

    现在正常安装centos7系列系统后，首先确认设备DNS配置正确后执行yum安装会出现以下主要报错：Could not retrieve mirrorlist http://mirrorlist.centos.org/?release=7&arch=x86_64&repo=os&infra=stock error was

14: curl#6 – "Could not resolve host: mirrorlist.centos.org; Unknown error"

```
[root@localhost ~]# yum install -y wget
Loaded plugins: fastestmirror
Determining fastest mirrors
Could not retrieve mirrorlist http://mirrorlist.centos.org/?release=7&arch=x86_64&repo=os&infra=stock error was
14: curl#6 - "Could not resolve host: mirrorlist.centos.org; Unknown error"


 One of the configured repositories failed (Unknown),
 and yum doesn't have enough cached data to continue. At this point the only
 safe thing yum can do is fail. There are a few ways to work "fix" this:

     1. Contact the upstream for the repository and get them to fix the problem.

     2. Reconfigure the baseurl/etc. for the repository, to point to a working
        upstream. This is most often useful if you are using a newer
        distribution release than is supported by the repository (and the
        packages for the previous distribution release still work).

     3. Run the command with the repository temporarily disabled
            yum --disablerepo=<repoid> ...

     4. Disable the repository permanently, so yum won't use it by default. Yum
        will then just ignore the repository until you permanently enable it
        again or use --enablerepo for temporary usage:

            yum-config-manager --disable <repoid>
        or
            subscription-manager repos --disable=<repoid>

     5. Configure the failing repository to be skipped, if it is unavailable.
        Note that yum will try to contact the repo. when it runs most commands,
        so will have to try and fail each time (and thus. yum will be be much
        slower). If it is a very temporary problem though, this is often a nice
        compromise:

            yum-config-manager --save --setopt=<repoid>.skip_if_unavailable=true

Cannot find a valid baseurl for repo: base/7/x86_64
[root@localhost ~]#
```

这是因为mirrorlist.centos.org已不再提供源软件包了，无法解析，因此需要更换到CentOS Vault源，目前阿里云等开源的镜像站还未作迁移，仍可以继续使用，建议也是直接切到CentOS Vault源。

三、更换CentOS Vault源

1、复制源文件切换

1.1备份原源文件

```Shell
mv /etc/yum.repos.d/CentOS-Base.repo{,.bak}
```

1.2编辑新的源文件，将以下内容复制过去

　　国内可使用阿里云的CentOS Vault源

```shell
vi /etc/yum.repos.d/CentOS-Base.repo  #

# CentOS-Base.repo
#
# The mirror system uses the connecting IP address of the client and the
# update status of each mirror to pick mirrors that are updated to and
# geographically close to the client.  You should use this for CentOS updates
# unless you are manually picking other mirrors.
#
# If the mirrorlist= does not work for you, as a fall back you can try the
# remarked out baseurl= line instead.
#
#

[base]
name=CentOS-7.9 - Base - mirrors.aliyun.com
baseurl=http://mirrors.aliyun.com/centos-vault/7.9.2009/os/$basearch/
gpgcheck=1
gpgkey=http://mirrors.aliyun.com/centos-vault/RPM-GPG-KEY-CentOS-7

#released updates
[updates]
name=CentOS-7.9 - Updates - mirrors.aliyun.com
baseurl=http://mirrors.aliyun.com/centos-vault/7.9.2009/updates/$basearch/
gpgcheck=1
gpgkey=http://mirrors.aliyun.com/centos-vault/RPM-GPG-KEY-CentOS-7

#additional packages that may be useful
[extras]
name=CentOS-7.9 - Extras - mirrors.aliyun.com
baseurl=http://mirrors.aliyun.com/centos-vault/7.9.2009/extras/$basearch/
gpgcheck=1
gpgkey=http://mirrors.aliyun.com/centos-vault/RPM-GPG-KEY-CentOS-7

#additional packages that extend functionality of existing packages
[centosplus]
name=CentOS-7.9 - Plus - mirrors.aliyun.com
baseurl=http://mirrors.aliyun.com/centos-vault/7.9.2009/centosplus/$basearch/
gpgcheck=1
enabled=0
gpgkey=http://mirrors.aliyun.com/centos-vault/RPM-GPG-KEY-CentOS-7
```

国外推荐官网CentOS Vault源

官网CentOS Vault源   Shell

```shell
# CentOS-Base.repo
#
# The mirror system uses the connecting IP address of the client and the
# update status of each mirror to pick mirrors that are updated to and
# geographically close to the client.  You should use this for CentOS upda
tes
# unless you are manually picking other mirrors.
#
# If the mirrorlist= does not work for you, as a fall back you can try the
# remarked out baseurl= line instead.
#
#

[base]
name=CentOS-7.9 - Base - vault.centos.org
baseurl=http://vault.centos.org/7.9.2009/os/$basearch/
gpgcheck=1
gpgkey=http://vault.centos.org/RPM-GPG-KEY-CentOS-7

#released updates
[updates]
name=CentOS-7.9 - Updates - vault.centos.org
baseurl=http://vault.centos.org/7.9.2009/updates/$basearch/
gpgcheck=1
gpgkey=http://vault.centos.org/RPM-GPG-KEY-CentOS-7

#additional packages that may be useful
[extras]
name=CentOS-7.9 - Extras - vault.centos.org
baseurl=http://vault.centos.org/7.9.2009/extras/$basearch/
gpgcheck=1
gpgkey=http://vault.centos.org/RPM-GPG-KEY-CentOS-7

#additional packages that extend functionality of existing packages
[centosplus]
name=CentOS-7.9 - Plus - vault.centos.org
baseurl=http://vault.centos.org/7.9.2009/centosplus/$basearch/
gpgcheck=1
enabled=0
gpgkey=http://vault.centos.org/RPM-GPG-KEY-CentOS-7

```

执行yum makecache可正常生成缓存即配置完成。

注：(1)默认centos7系列正常都是可以使用大版本软件源，若安装centos7.9以前版本出现软件兼容问题，可更换成指定版本，只需要将url链接中"7.9.2009"更换成对应版本即可，centos7全系列版本对应如下:7.0.1406、7.1.1503、7.2.1511、7.3.1611、7.4.1708、7.5.1804、7.6.1810、7.7.1908、7.8.2003、7.9.2009；

(2)http://vault.centos.org除了存放老版本软件源外，版本IOS镜像也存方在此处，需要小版本镜像时可在链接中下载，例如https://vault.centos.org/7.9.2009/isos/x86_64/

2、shell命令切换

此方法适合暂时无法通过远程ssh连接设备，由外置显示器控制时，通过命令更换文件，当然也适用ssh登录时配置

```Shell
sed -e "s|^mirrorlist=|#mirrorlist=|g" \
    -e "s|^#baseurl=http://mirror.centos.org/centos/\$releasever|baseurl=http://mirrors.aliyun.com/centos-vault/7.9.2009|g" \
    -i.bak \
    /etc/yum.repos.d/CentOS-Base.repo
```