1.Deprecated的image,仍然可以创建vm

[Creating, deleting, and deprecating custom images](#)

Deprecation states 🔗

The following deprecation states are supported:
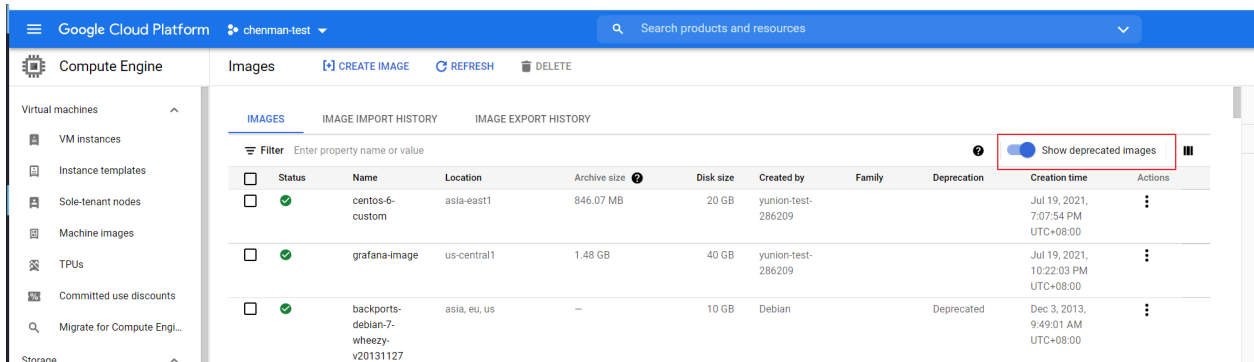
- `ACTIVE` : the image is active and can be used as normal. Image families point to the most recent and active image in a family.

- `DEPRECATED` : the image is marked deprecated but can still be used to [create a VM](#). New links to this image are allowed. Image families no longer point to this image even if it is the most recent image in the family.

  If you create a VM with a deprecated image using the `gcloud` command-line tool, the request succeeds with a warning.

- `OBSOLETE` : the image is marked obsolete and is no longer available for use. An error message is returned if you try to use this image in a request. Existing links to this image are still allowed.

- `DELETED` : this image is deleted. An error message is returned if you try to use a deleted image.

2.查出所有的image, 包括deprecated的image

Console中查看已经弃用的image：

Glcoud 查看方式

```
liuchenggang:~/ $ gcloud compute images list --show-deprecated | grep centos
[17:24:12]
centos-6-v20131120                                              centos-cloud
DEPRECATED   READY
centos-6-v20140318                                              centos-cloud
DEPRECATED   READY
centos-6-v20140408                                              centos-cloud
DEPRECATED   READY
centos-6-v20140415                                              centos-cloud
DEPRECATED   READY
centos-6-v20140522                                              centos-cloud
DEPRECATED   READY
centos-6-v20140605                                              centos-cloud
DEPRECATED   READY
centos-6-v20140606                                              centos-cloud
DEPRECATED   READY
centos-6-v20140619                                              centos-cloud
DEPRECATED   READY
centos-6-v20140718                                              centos-cloud
DEPRECATED   READY
centos-6-v20140924                                              centos-cloud
DEPRECATED   READY
centos-6-v20140926                                              centos-cloud
DEPRECATED   READY
centos-6-v20141007                                              centos-cloud
DEPRECATED   READY
centos-6-v20141016                                              centos-cloud
DEPRECATED   READY
centos-6-v20141021                                              centos-cloud
DEPRECATED   READY
centos-6-v20141108                                              centos-cloud
DEPRECATED   READY
centos-6-v20141205                                              centos-cloud
DEPRECATED   READY
centos-6-v20141218                                              centos-cloud
DEPRECATED   READY
centos-6-v20150127                                              centos-cloud
DEPRECATED   READY
centos-6-v20150226                                              centos-cloud
DEPRECATED   READY
centos-6-v20150309                                              centos-cloud
DEPRECATED   READY
centos-6-v20150325                                              centos-cloud
DEPRECATED   READY
centos-6-v20150423                                              centos-cloud
DEPRECATED   READY
centos-6-v20150526                                              centos-cloud
```

```
DEPRECATED   READY
centos-6-v20150603                                        centos-cloud
DEPRECATED   READY
centos-6-v20150710                                        centos-cloud
DEPRECATED   READY
centos-6-v20150818                                        centos-cloud
DEPRECATED   READY
centos-6-v20150915                                        centos-cloud
DEPRECATED   READY
centos-6-v20150929                                        centos-cloud
DEPRECATED   READY
centos-6-v20151104                                        centos-cloud
DEPRECATED   READY
centos-6-v20160119                                        centos-cloud
DEPRECATED   READY
centos-6-v20160126                                        centos-cloud
DEPRECATED   READY
centos-6-v20160211                                        centos-cloud
DEPRECATED   READY
centos-6-v20160216                                        centos-cloud
DEPRECATED   READY
centos-6-v20160219                                        centos-cloud
DEPRECATED   READY
centos-6-v20160301                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20160329                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20160418                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20160511                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20160526                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20160606                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20160629                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20160711                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20160718                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20160803                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20160921                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20161026                                        centos-cloud
centos-6                          DEPRECATED   READY
```

```
centos-6-v20161027                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20161129                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20161208                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20161212                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170110                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170124                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170223                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170227                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170327                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170426                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170523                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170616                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170620                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170717                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170805                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170816                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170829                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20170918                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20171018                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20171025                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20171129                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20171213                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20180104                                      centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20180129                                      centos-cloud
```

```
centos-6                          DEPRECATED   READY
centos-6-v20180205                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20180227                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20180314                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20180401                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20180507                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20180510                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20180514                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20180516                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20180523                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20180611                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20180716                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20180815                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20180911                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20181009                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20181011                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20181113                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20181210                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20190116                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20190213                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20190312                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20190326                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20190423                                        centos-cloud
centos-6                          DEPRECATED   READY
centos-6-v20190515                                        centos-cloud
centos-6                          DEPRECATED   READY
```

```
centos-6-v20190619                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20190729                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20190813                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20190911                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20190916                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20191014                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20191115                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20191121                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20191210                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20200205                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20200309                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20200402                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20200505                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20200521                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20200618                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20200714                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20200811                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20200902                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20200910                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20201014                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-6-v20201112                                          centos-cloud
centos-6                        DEPRECATED   READY
centos-7-v20140903                                          centos-cloud
DEPRECATED   READY
```

3.根据image name 和 image project创建 gce

```
gcloud compute instances create cliucentos6 --image=centos-6-v20201112
--image-project=centos-cloud --machine-type=e2-custom-2-4096
```

```
onnected, host fingerprint: ssh-rsa 0 C2:12:F5:6C:D1:75:9A:C4:18:C8:9D:82:DB:1
5C:BE:36:25:6D:F2
[liuchenggang@cliucentos6 ~]$ more /etc/redhat-release
CentOS release 6.10 (Final)
[liuchenggang@cliucentos6 ~]$ █
```

4.不同组织间共享自定义映像：

参考：
https://cloud.google.com/compute/docs/images/managing-access-custom-images#mig_all_images_access

需要与组织外的合作伙伴、用户共享映像（image），可以将用户添加到项目中：
4.1、更新特定映像的访问权限：

```
gcloud compute images add-iam-policy-binding IMAGE_NAME \
    --member='MEMBER' \
    --role='ROLE'
```

- **IMAGE_NAME**：映像的名称，例如 custom-centos-8
- **MEMBER**：您要向其授予相应角色的有效身份。
  例如：
    - user:test-user@gmail.com # 指定用户
    - group:admins@example.com # 指定用户组
    - serviceAccount:test123@example.domain.com ##指定服务账号
    - Domain:example.domain.com # 指定组织
- **ROLE**：要向其分配此身份的角色，例如 roles/compute.imageUser、
  roles/compute.storageAdmin 或自定义角色

4.2、在其他项目中使用映像：

```
gcloud compute instances create VM_NAME \
```

```
    --image=IMAGE \
    --image-project=IMAGE_PROJECT_ID
```

VM_NAME：新虚拟机的名称
IMAGE：映像的名称
IMAGE_PROJECT_ID：映像所属的项目