# Centos7升级内核:

#### 1、查看内核版本

```
[root@centos7 ]# uname -sr
Linux 3.10.0-957.el7.x86_64
```

## 2、安装yum源

#### 3、列出可用的kernel.related软件包:

```
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * elrepo-kernel: mirrors.tuna.tsinghua.edu.cn
elrepo-kernel
elrepo-kernel/primary db
Available Packages
elrepo-release.noarch
                                                         7.0-4.el7.elrepo
kernel-lt.x86 64
                                                         4.4.193-1.el7.elrepo
kernel-lt-devel.x86 64
                                                         4.4.193-1.el7.elrepo
kernel-lt-doc.noarch
                                                         4.4.193-1.el7.elrepo
kernel-lt-headers.x86 64
                                                         4.4.193-1.el7.elrepo
kernel-lt-tools.x86 64
                                                         4.4.193-1.el7.elrepo
kernel-lt-tools-libs.x86 64
                                                         4.4.193-1.el7.elrepo
kernel-lt-tools-libs-devel.x86 64
                                                         4.4.193-1.el7.elrepo
kernel-ml.x86 64
                                                         5.3.0-1.el7.elrepo
kernel-ml-devel.x86 64
                                                         5.3.0-1.el7.elrepo
kernel-ml-doc.noarch
                                                         5.3.0-1.el7.elrepo
kernel-ml-headers.x86 64
                                                         5.3.0-1.el7.elrepo
kernel-ml-tools.x86 64
                                                         5.3.0-1.el7.elrepo
kernel-ml-tools-libs.x86_64
                                                         5.3.0-1.el7.elrepo
kernel-ml-tools-libs-devel.x86 64
                                                         5.3.0-1.el7.elrepo
perf.x86 64
                                                         5.3.0-1.el7.elrepo
python-perf.x86 64
                                                         5.3.0-1.el7.elrepo
```

## 4、安装最新的稳定内核:

```
[root@centos7 ~]# yum --enablerepo=elrepo-kernel install kernel-ml
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
```

```
epel/x86 64/metalink
                                                  | 5.6 kB 00:00:00
* base: mirrors.aliyun.com
* elrepo: mirrors.tuna.tsinghua.edu.cn
* elrepo-kernel: mirrors.tuna.tsinghua.edu.elrepo
                                                     | 3.6 kB 00:00:00
elrepo
epel
                                                      | 3.2 kB 00:00:00
(1/2): elrepo/primary_db
(2/2): epel/x86 64/primary db
Resolving Dependencies
--> Running transaction check
---> Package kernel-ml.x86_64 0:5.3.0-1.el7.elrepo will be installed
--> Finished Dependency Resolution
Dependencies Resolved
______
_____
Package
                    Arch
                                      Version
Repository
                      Size
_______
_____
Installing:
kernel-ml
                   x86_64
                             5.3.0-1.el7.elrepo
                                                               elrepo-
                48 M
kernel
Transaction Summary
_______
_____
Install 1 Package
Total download size: 48 M
Installed size: 216 M
Is this ok [y/d/N]: y
Downloading packages:
kernel-ml-5.3.0-1.el7.elrepo.x86_64.rpm
    | 48 MB 00:00:15
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Warning: RPMDB altered outside of yum.
 Installing : kernel-ml-5.3.0-1.el7.elrepo.x86 64
                                                          1/1
 Verifying : kernel-ml-5.3.0-1.el7.elrepo.x86_64
                                                         1/1
Installed:
 kernel-ml.x86_64 0:5.3.0-1.el7.elrepo
Complete!
```

```
CentOS Linux (5.3.0-1.el7.elrepo.x86_64) 7 (Core)
CentOS Linux (3.10.0-957.el7.x86_64) 7 (Core)
CentOS Linux (0-rescue-591810cd8c9746b99274679f1f25bd52) 7 (Core)

Use the ↑ and ↓ keys to change the selection.
Press 'e' to edit the selected item, or 'c' for a command prompt.
```

6、登录,并运行以下命令检查内核版本:

```
[root@centos7 ~]# uname -sr
Linux 5.3.0-1.el7.elrepo.x86_64
```

7、在 vim /etc/default/grub 中设置 GRUB DEFAULT=0,初始屏幕中的第一个内核将用作默认内核版本:

8、运行以下命令以重新创建内核配置

[root@centos7 ~]# grub2-mkconfig -o /boot/grub2/grub.cfg

Generating grub configuration file ...

Found linux image: /boot/vmlinuz-5.3.0-1.el7.elrepo.x86\_64

Found initrd image: /boot/initramfs-5.3.0-1.el7.elrepo.x86\_64.img

Found linux image: /boot/vmlinuz-3.10.0-957.el7.x86\_64

Found initrd image: /boot/initramfs-3.10.0-957.el7.x86 64.img

Found linux image: /boot/vmlinuz-0-rescue-591810cd8c9746b99274679f1f25bd52

Found initrd image: /boot/initramfs-0-rescue-591810cd8c9746b99274679f1f25bd52.img

done

# 9、 reboot 后验证默认情况下正在使用最新的内核:

CentOS Linux (5.3.0-1.el7.elrepo.x86\_64) 7 (Core)
CentOS Linux (3.10.0-957.el7.x86\_64) 7 (Core)
CentOS Linux (0-rescue-591810cd8c9746b99274679f1f25bd52) 7 (Core)

Use the  $\uparrow$  and  $\downarrow$  keys to change the selection. Press 'e' to edit the selected item, or 'c' for a command prompt.