

Centos7升级内核

Subtitle

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Centos7升级内核

参考:

- <https://blog.csdn.net/kikajack/article/details/79396793>
- <https://linux.cn/article-8310-1.html>
- <https://havee.me/linux/2017-01/upgrade-kernel-4-9-for-centos.html>

```
# rpm --import https://www.elrepo.org/RPM-GPG-KEY-elrepo.org
# rpm -Uvh http://www.elrepo.org/elrepo-release-7.0-2.el7.elrepo.noarch.rpm
# yum --disablerepo="*" --enablerepo="elrepo-kernel" list available
# kernel-lt means long term version
# kernel-ml means main line version
# yum --enablerepo=elrepo-kernel install kernel-ml
```

查看可用内核

```
[root@localhost yum.repos.d]# awk -F' '$1=="menuentry " '{print i++ " : " $2}' /etc/grub2.cfg
0 : CentOS Linux (4.19.5-1.el7.elrepo.x86_64) 7 (Core)
1 : CentOS Linux (3.10.0-862.14.4.el7.x86_64) 7 (Core)
2 : CentOS Linux (4.4.145-1.el7.elrepo.x86_64) 7 (Core)
3 : CentOS Linux (3.10.0-693.el7.x86_64) 7 (Core)
4 : CentOS Linux (0-rescue-0863eef714ae4dbf8ee07fa05ed6ff82) 7 (Core)
```

设置默认启动

```
# grub2-set-default 'CentOS Linux (4.19.5-1.el7.elrepo.x86_64) 7 (Core)'
```

以后升级内核默认启用 **kernel-ml**

编辑文件 /etc/sysconfig/kernel

```
# DEFAULTKERNEL specifies the default kernel package type
DEFAULTKERNEL=kernel-ml
```

同时编辑文件 /etc/yum.repo.d/elrepo.repo , 在 [elrepo-kernel] 下

```
enabled=1
```

开启**bbr**

加载内核模块

```
# modprobe tcp_bbr
# echo "tcp_bbr" >> /etc/modules-load.d/modules.conf
```

修改内核参数

```
# echo "net.core.default_qdisc=fq" >> /etc/sysctl.conf
# echo "net.ipv4.tcp_congestion_control=bbr" >> /etc/sysctl.conf
# sysctl -p
```

检查BBR是否已经开启

```
# lsmod | grep bbr
# sysctl net.ipv4.tcp_available_congestion_control
# sysctl net.ipv4.tcp_congestion_control
```

如结果都有bbr，则表示已经开启BBR算法

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