


```
root@ns1:~# df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/mapper/ns1--vg-root	130G	6.2G	117G	6%	/
none	4.0K	0	4.0K	0%	/sys/fs/cgroup
udev	2.0G	12K	2.0G	1%	/dev
tmpfs	396M	580K	395M	1%	/run
none	5.0M	0	5.0M	0%	/run/lock
none	2.0G	0	2.0G	0%	/run/shm
none	100M	0	100M	0%	/run/user
/dev/sda1	228M	180M	37M	84%	/boot

3. 実行

chmod

```
chmod 755 remove-old-kernel.sh
```

4. 必要なパッケージをインストールし、Root (root) として sudo を実行する

```
./remove-old-kernel.sh
```

```
root@ns1:~# ./remove-old-kernel.sh
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libapache2-mod-security2 libapache2-modsecurity liblua5.1-0 modsecurity-crs
Use 'apt-get autoremove' to remove them.
The following packages will be REMOVED:
  linux-image-3.13.0-39-generic* linux-image-3.13.0-40-generic*
  linux-image-3.13.0-43-generic* linux-image-3.13.0-44-generic*
  linux-image-3.8.0-44-generic* linux-image-extra-3.13.0-39-generic*
  linux-image-extra-3.13.0-40-generic* linux-image-extra-3.13.0-43-generic*
  linux-image-extra-3.13.0-44-generic*
0 upgraded, 0 newly installed, 9 to remove and 10 not upgraded.
After this operation, 956 MB disk space will be freed.
Do you want to continue? [Y/n] y
```

インストールした 2 つの kernel を削除し、必要な kernel をインストールする

```
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-3.13.0-46-generic
Found initrd image: /boot/initrd.img-3.13.0-46-generic
Found linux image: /boot/vmlinuz-3.13.0-44-generic
Found initrd image: /boot/initrd.img-3.13.0-44-generic
Found linux image: /boot/vmlinuz-3.13.0-43-generic
Found initrd image: /boot/initrd.img-3.13.0-43-generic
Found linux image: /boot/vmlinuz-3.13.0-40-generic
Found initrd image: /boot/initrd.img-3.13.0-40-generic
Found linux image: /boot/vmlinuz-3.13.0-39-generic
Found initrd image: /boot/initrd.img-3.13.0-39-generic
Found linux image: /boot/vmlinuz-3.8.0-44-generic
Found initrd image: /boot/initrd.img-3.8.0-44-generic
```

インストールした 3 つの kernel を削除し、必要な kernel をインストールする

Grub をインストールし、必要な kernel をインストールする

5.0 環境構築

```
root@ns1:~# df -h
Filesystem                Size      Used Avail Use% Mounted on
/dev/mapper/ns1--vg-root  130G      5.3G   118G   5% /
none                      4.0K        0   4.0K   0% /sys/fs/cgroup
udev                     2.0G      12K   2.0G   1% /dev
tmpfs                    396M     580K   395M   1% /run
none                     5.0M        0   5.0M   0% /run/lock
none                     2.0G        0   2.0G   0% /run/shm
none                     100M        0   100M   0% /run/user
/dev/sda1                 228M      37M   180M  17% /boot
root@ns1:~# uname -a
Linux ns1 3.13.0-46-generic #77-Ubuntu SMP Mon Mar 2 18:23:39 UTC
2015 x86_64 x86_64 x86_64 GNU/Linux
```

4 Kernel

****Kernel** 環境構築