

# ????? Kernel???????????

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```
# 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
■■■■ http://www.elrepo.org/elrepo-release-7.0-2.el7.elrepo.noarch.rpm
■■■■ http://elrepo.org/elrepo-release-7.0-4.el7.elrepo.noarch.rpm
■■■■... ##### [100%]
Updating / installing...
 1:elrepo-release-7.0-4.el7.elrepo ##### [100%]
```

■■■■■■■■ 5.x ■■■

```
# yum --enablerepo=elrepo-kernel install kernel-ml -y
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: mirror01.idc.hinet.net
 * elrepo: ftp.yz.yamagata-u.ac.jp
 * elrepo-kernel: ftp.yz.yamagata-u.ac.jp
 * extras: mirror01.idc.hinet.net
 * updates: mirror01.idc.hinet.net
elrepo | 3.0 kB 00:00
elrepo-kernel | 3.0 kB 00:00
(1/2): elrepo/primary_db | 580 kB 00:00
(2/2): elrepo-kernel/primary_db | 2.1 MB 00:00
Resolving Dependencies
--> Running transaction check
---> Package kernel-ml.x86_64 0:5.18.6-1.el7.elrepo will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
kernel-ml x86_64 5.18.6-1.el7.elrepo elrepo-kernel 56 M
```



```
# yum remove kernel-tools-3.10.0-1160.66.1.el7.x86_64 kernel-tools-libs-3.10.0-1160.66.1.el7.x86_64
Loaded plugins: fastestmirror
Resolving Dependencies
--> Running transaction check
---> Package kernel-tools.x86_64 0:3.10.0-1160.66.1.el7 will be erased
---> Package kernel-tools-libs.x86_64 0:3.10.0-1160.66.1.el7 will be erased
--> Finished Dependency Resolution
```

Dependencies Resolved

```
=====
Package                Arch      Version                Repository             Size
=====
Removing:
kernel-tools           x86_64    3.10.0-1160.66.1.el7  @updates              337 k
kernel-tools-libs     x86_64    3.10.0-1160.66.1.el7  @updates              18 k
```

Transaction Summary

```
=====
Remove 2 Packages
```

Installed size: 355 k

Is this ok [y/N]:  y

Kernel

```
# rpm -qa|grep kernel
kernel-3.10.0-1160.66.1.el7.x86_64
kernel-3.10.0-1160.53.1.el7.x86_64
kernel-3.10.0-1160.59.1.el7.x86_64
kernel-3.10.0-1160.62.1.el7.x86_64
kernel-ml-5.18.6-1.el7.elrepo.x86_64
```

**kernel-ml-5.18.6-1.el7.elrepo.x86\_64**  **kernel-3.10.0-1160.66.1.el7.x86\_64**

```
# yum remove kernel-3.10.0-1160.49.1.el7.x86_64 kernel-3.10.0-1160.53.1.el7.x86_64 kernel-3.10.0-1160.59.1.el7.x86_64 kernel-3.10.0-1160.62.1.el7.x86_64
Loaded plugins: fastestmirror
```



```
---> Package kernel-ml-tools.x86_64 0:5.18.6-1.el7.elrepo will be installed
---> Package kernel-ml-tools-libs.x86_64 0:5.18.6-1.el7.elrepo will be installed
--> Finished Dependency Resolution
```

#### Dependencies Resolved

```
=====
```

Package	Arch	Version	Repository	Size
Installing:				
kernel-ml-headers	x86_64	5.18.6-1.el7.elrepo	elrepo-kernel	1.6 M
kernel-ml-tools	x86_64	5.18.6-1.el7.elrepo	elrepo-kernel	267 k
kernel-ml-tools-libs	x86_64	5.18.6-1.el7.elrepo	elrepo-kernel	152 k

```
=====
```

#### Transaction Summary

```
=====
```

Install 3 Packages

Total download size: 2.0 M

Installed size: 6.2 M

Downloading packages:

```
(1/3): kernel-ml-tools-5.18.6-1.el7.elrepo.x86_64.rpm | 267 kB 00:00
(2/3): kernel-ml-tools-libs-5.18.6-1.el7.elrepo.x86_64.rpm | 152 kB 00:00
(3/3): kernel-ml-headers-5.18.6-1.el7.elrepo.x86_64.rpm | 1.6 MB 00:00
```

```
-----
```

Total 2.6 MB/s | 2.0 MB 00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

```
Installing : kernel-ml-tools-libs-5.18.6-1.el7.elrepo.x86_64 1/3
Installing : kernel-ml-tools-5.18.6-1.el7.elrepo.x86_64 2/3
Installing : kernel-ml-headers-5.18.6-1.el7.elrepo.x86_64 3/3
Verifying : kernel-ml-headers-5.18.6-1.el7.elrepo.x86_64 1/3
Verifying : kernel-ml-tools-5.18.6-1.el7.elrepo.x86_64 2/3
Verifying : kernel-ml-tools-libs-5.18.6-1.el7.elrepo.x86_64 3/3
```

Installed:

```
kernel-ml-headers.x86_64 0:5.18.6-1.el7.elrepo
kernel-ml-tools.x86_64 0:5.18.6-1.el7.elrepo
```

kernel-ml-tools-libs.x86\_64 0:5.18.6-1.el7.elrepo

Complete!



```
# yum update -y
```

```
Loaded plugins: fastestmirror
```

```
Loading mirror speeds from cached hostfile
```

```
* base: mirror01.idc.hinet.net
```

```
* elrepo: hkg.mirror.rackspace.com
```

```
* extras: mirror01.idc.hinet.net
```

```
* updates: mirror01.idc.hinet.net
```

```
Resolving Dependencies
```

```
--> Running transaction check
```

```
---> Package elrepo-release.noarch 0:7.0-4.el7.elrepo will be updated
```

```
---> Package elrepo-release.noarch 0:7.0-5.el7.elrepo will be an update
```

```
--> Finished Dependency Resolution
```

```
Dependencies Resolved
```

```
=====
```

Package	Arch	Version	Repository	Size
---------	------	---------	------------	------

```
=====
```

Updating:

elrepo-release	noarch	7.0-5.el7.elrepo	elrepo	8.6 k
----------------	--------	------------------	--------	-------

```
Transaction Summary
```

```
=====
```

Upgrade 1 Package

```
Total download size: 8.6 k
```

```
Downloading packages:
```

```
Delta RPMs disabled because /usr/bin/applydeltarpm not installed.
```

```
elrepo-release-7.0-5.el7.elrepo.noarch.rpm | 8.6 kB 00:00
```

```
Running transaction check
```

```
Running transaction test
```

```
Transaction test succeeded
```

```
Running transaction
```

```
Updating : elrepo-release-7.0-5.el7.elrepo.noarch 1/2
```

```
Cleanup : elrepo-release-7.0-4.el7.elrepo.noarch 2/2
```

Verifying	: elrepo-release-7.0-5.el7.elrepo.noarch	1/2
Verifying	: elrepo-release-7.0-4.el7.elrepo.noarch	2/2

Updated:

elrepo-release.noarch 0:7.0-5.el7.elrepo

Complete!

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Revision #2

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