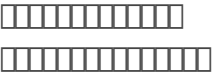


- CentOS 7 LAMP
- CentOS 7 Nextcloud
- CentOS 7 OxOOL (V3 V4)



CentOS 7



CentOS 7

CentOS Linux release 7.9.2009 (Core)

```
# cat /etc/redhat-release
CentOS Linux release 7.9.2009 (Core)
```



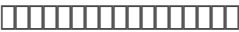
```
# uname -a
Linux oxoolcommunity.ossii.com.tw 3.10.0-1160.66.1.el7.x86_64 #1 SMP Wed May 18 16:02:34 UTC 2022
x86_64 x86_64 x86_64 GNU/Linux
```

CentOS 7 3.10.0-1160.66.1.el7.x86_64 yum update

```
# yum update -y
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
* base: mirror01.idc.hinet.net
* extras: mirror01.idc.hinet.net
* updates: mirror01.idc.hinet.net
No packages marked for update
```



Kernel



```
# 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

Transaction Summary
=====
=====
Install 1 Package

Total download size: 56 M
Installed size: 257 M
Is this ok [y/d/N]: y
Downloading packages:
kernel-ml-5.18.6-1.el7.elrepo.x86_64.rpm          | 56 MB  00:05
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Warning: RPMDB altered outside of yum.
  Installing : kernel-ml-5.18.6-1.el7.elrepo.x86_64      1/1
  Verifying  : kernel-ml-5.18.6-1.el7.elrepo.x86_64      1/1

Installed:
  kernel-ml.x86_64 0:5.18.6-1.el7.elrepo

Complete!
```



```
# rpm -qa |grep kernel
kernel-tools-3.10.0-1160.66.1.el7.x86_64
kernel-3.10.0-1160.49.1.el7.x86_64
kernel-tools-libs-3.10.0-1160.66.1.el7.x86_64
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
```

[illegible]

```
# 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-3.10.0-1160.49.1.el7.x86_64
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-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
Resolving Dependencies
--> Running transaction check
---> Package kernel.x86_64 0:3.10.0-1160.49.1.el7 will be erased
---> Package kernel.x86_64 0:3.10.0-1160.53.1.el7 will be erased
---> Package kernel.x86_64 0:3.10.0-1160.59.1.el7 will be erased
---> Package kernel.x86_64 0:3.10.0-1160.62.1.el7 will be erased
--> Finished Dependency Resolution
```

Dependencies Resolved

=====				
=====				
Package	Arch	Version	Repository	Size
=====				
=====				

Removing:

kernel	x86_64	3.10.0-1160.49.1.el7	@updates	64 M
kernel	x86_64	3.10.0-1160.53.1.el7	@updates	64 M
kernel	x86_64	3.10.0-1160.59.1.el7	@updates	64 M
kernel	x86_64	3.10.0-1160.62.1.el7	@updates	64 M

Transaction Summary

=====				
=====				

Remove 4 Packages

Installed size: 257 M

Is this ok [y/N]:❏❏❏❏❏ y ❏

❏❏❏❏❏❏❏❏❏❏ libs ❏ tools ❏❏

```
# yum --enablerepo=elrepo-kernel install kernel-ml-headers kernel-ml-tools kernel-ml-tools-libs -y
```

Loaded plugins: fastestmirror

Loading mirror speeds from cached hostfile

* base: mirror01.idc.hinet.net

* elrepo: ftp.ne.jp

* elrepo-kernel: ftp.ne.jp

* extras: mirror01.idc.hinet.net

* updates: mirror01.idc.hinet.net

Resolving Dependencies

--> Running transaction check

---> Package kernel-ml-headers.x86_64 0:5.18.6-1.el7.elrepo will be installed

---> 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!



grub 2



```
# awk -F' '$1=="menuentry "' {print $2}' /etc/grub2.cfg
CentOS Linux (5.18.6-1.el7.elrepo.x86_64) 7 (Core)
CentOS Linux (3.10.0-1160.66.1.el7.x86_64) 7 (Core)
CentOS Linux (0-rescue-db7214c5f0fd4b74abbce0498c2ad9b8) 7 (Core)
```



0

```
# grub2-set-default 0
```



```
CentOS Linux (5.18.6-1.el7.elrepo.x86_64) 7 (Core)
CentOS Linux (3.10.0-1160.66.1.el7.x86_64) 7 (Core)
CentOS Linux (0-rescue-db7214c5f0fd4b74abbce0498c2ad9b8) 7 (Core)
```



```
# uname -a
Linux oxoolcommunity.ossii.com.tw 5.18.6-1.el7.elrepo.x86_64 #1 SMP PREEMPT_DYNAMIC Tue Jun 21 09:11:23
EDT 2022 x86_64 x86_64 x86_64 GNU/Linux
```

