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# SUSE Zypper

- [https://en.opensuse.org/SDB:Zypper\\_usage](https://en.opensuse.org/SDB:Zypper_usage)
- <https://doc.opensuse.org/documentation/leap/reference/html/book.opensuse.reference/cha-sw-cl.html>

## Zypper

Zypper

```
zypper [options] COMMAND [command-options] [arguments]
```

Zypper

```
zypper [options] COMMAND [command-options] [arguments]
```

## Zypper

Zypper 가

```
sudo zypper patch
```

```
sudo zypper --non-interactive patch
```

--non-interactive  
( ).

```
sudo zypper patch --auto-agree-with-licenses
```

--auto-agree-with-licenses

가

가

install

```
sudo zypper install mplayer
```

가

```
zypper search -t pattern
```

mc vim

factory

```
sudo zypper -v install --from factory mc vim
```

--from

( )

--repo

--from

Zypper

dry-run

```
sudo zypper remove --dry-run MozillaFirefox
```

Zypper --userdata STRING

Zypper ( : Btrfs )

```
sudo zypper --userdata STRING patch
```

## Zypper

Zypper zypper\_execdir  
zypper\_execdir

/usr/lib/zypper/commands  
Zypper \$PATH

Zypper

Zypper

가

```
zypper help subcommand
[...]
Available zypper subcommands in '/usr/lib/zypper/commands'

appstream-cache
lifecycle
migration
search-packages
```

Zypper subcommands available from elsewhere on your \$PATH

<none>

```
zypper help appstream-cache
```

## Zypper

```
sudo zypper install PACKAGE_NAME
sudo zypper remove PACKAGE_NAME
```



Kernel

Glibc, Zypper,

가 가

- zypper install
- zypper remove

```
sudo zypper install MozillaFirefox
```

```
sudo zypper install MozillaFirefox-52.2
```

```
sudo zypper install mozilla:MozillaFirefox
```

Moz

```
sudo zypper install 'Moz*'
```

-debuginfo



가

```
sudo zypper remove '*-debuginfo'
```

MozillaFirefox

```
sudo zypper install firefox
```

AMD64/Intel64

(Zypper

가  
x86\_64)

```
sudo zypper install 'firefox.x86_64'
```

• 가 가

```
sudo zypper install 'firefox>=74.2'
```

•

```
sudo zypper install 'firefox.x86_64>=74.2'
```

**RPM** 가

```
sudo zypper install /tmp/install/MozillaFirefox.rpm  
sudo zypper install http://download.example.com/MozillaFirefox.rpm
```

vim emacs

vim

```
sudo zypper install emacs -vim
```

emacs vim

```
sudo zypper remove emacs +vim
```

- - 가 --

```
sudo zypper install -emacs +vim      # Wrong  
sudo zypper install vim -emacs       # Correct  
sudo zypper install -- -emacs +vim  # Correct  
sudo zypper remove emacs +vim       # Correct
```

clean-deps

```
sudo zypper rm --clean-deps PACKAGE_NAME
```

Zypper  
---non-interactive  
install remove patch ( )

```
sudo zypper --non-interactive install PACKAGE_NAME
```

Zypper

```
zypper source-install PACKAGE_NAME
```

root /usr/src/packages/  
~/rpmbuild rpm  
-D 가

```
sudo zypper source-install -D PACKAGE_NAME
```

-d

```
sudo zypper source-install -d PACKAGE_NAME
```

가 가 ( ).  
가

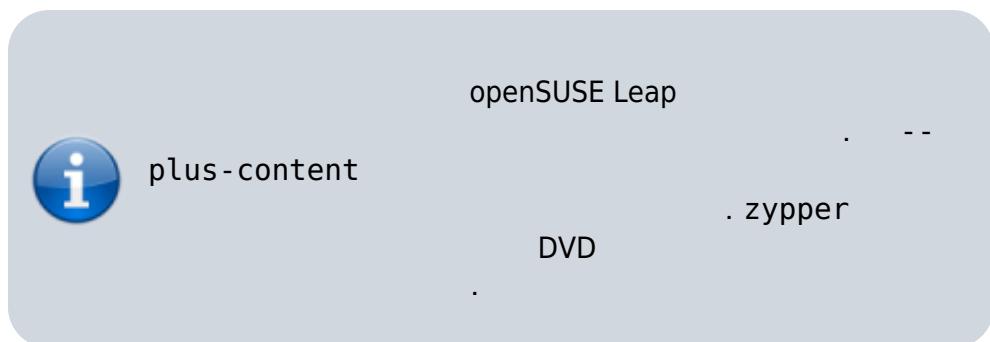
```
zypper search -t srcpackage
```

```
zypper source-download
```

```
/var/cache/zypper/source-download. --directory
--status --delete
--no-delete
--plus-
content TAG Zypper
--debuginfo --debugsource 가
--plus-content debug
--debuginfo
```

```
sudo zypper --plus-content debug \
install "debuginfo(build-id)=eb844a5c20c70a59fc693cd1061f851fb7d046f4"
```

build-id 가 gdb



```
zypper verify
```

가  
가 ) ( 가

```
sudo zypper install-new-recommends
```

Wi-Fi 가

## Zypper

Zypper

zypper dist-upgrade

```
sudo zypper patch
```

(optional feature )

zypper patch  
with-update

```
sudo zypper patch --with-update
```

```
sudo zypper patch --with-optional
```

Bugzilla

```
sudo zypper patch --bugzilla=NUMBER
```

CVE

```
sudo zypper patch --cve=NUMBER
```

CVE CVE-2010-2713 가

```
sudo zypper patch --cve=CVE-2010-2713
```

Zypper

```
sudo zypper patch --updatestack-only
```

updatestack-only

Zypper

( ) patch-check

```
zypper patch-check
Loading repository data...
Reading installed packages...
5 patches needed (1 security patch)
```

Zypper --updatestack-only

( ) list-patches

```
zypper list-patches
Repository | Name | Category | Severity | Interactive | Status
| S>
-----+-----+-----+-----+-----+-----+
+-->
Update | openSUSE-2019-828 | security | moderate | --- | needed
| S>

Found 1 applicable patch:
1 patch needed (1 security patch)
```

Since Zypper 1.14.36

openSUSE Leap  
zypper patches

list-patches zypper

Bugzilla --bugzilla

Bugzilla --bugzilla=NUMBER

가

```
zypper list-patches --bugzilla=972197,956917
```

## CVE

CVE ( ) --cve

CVE  
cve=NUMBER. CVE --  
가 . CVE

```
zypper list-patches --bugzilla=CVE-2016-2315,CVE-2016-2324
```

가 --all . CVE

```
zypper list-patches --all --cve
Issue | No. | Patch | Category | Severity | Status
-----+-----+-----+-----+-----+-----+
-- 
cve | CVE-2019-0287 | SUSE-SLE-Module.. | recommended | moderate | needed
cve | CVE-2019-3566 | SUSE-SLE-SERVER.. | recommended | moderate | not
needed
[...]
```

```
        zypper patch  
        ( )
```

```
sudo zypper update
```

```
sudo zypper update PACKAGE_NAME  
sudo zypper install PACKAGE_NAME
```

가 가

```
zypper list-updates
```

• 가  
• 가  
• 가 ( ).

가 가

```
sudo zypper list-updates --all
```

update zypper install zypper

Zypper 가 (Orphan)  
가 .

```
sudo zypper packages --orphaned
```

가

가 가 . zypper ps  
가 . zypper ps

```
zypper ps
PID | PPID | UID | User | Command | Service | Files
-----+-----+-----+-----+-----+-----+-----+
-  
814 | 1 | 481 | avahi | avahi-daemon | avahi-daemon |  
/lib64/ld-2.19.s->  
| | | | | |  
/lib64/libdl-2.1->  
| | | | | |  
/lib64/libpthread->  
| | | | | |  
/lib64/libc-2.19->  
[...]
```

- PID: ID
  - PPID: ID
  - UID: ID
  - Login:
  - Command:
  - Service: ( )
  - Files:

zypper ps

**zypper ps -s**

zypper ps -s						
PID	PPID	UID	User	Command	Service	
814	1	481	avahi	avahi-daemon	avahi-daemon	
817	1	0	root	irqbalance	irqbalance	
1567	1	0	root	sshd	sshd	
1761	1	0	root	master	postfix	
1764	1761	51	postfix	pickup	postfix	
1765	1761	51	postfix	qmgr	postfix	
2031	2027	1000	tux	bash		

```
zypper ps -ss
```

PID	PPID	UID	User	Command	Service
814	1	481	avahi	avahi-daemon	avahi-daemon
817	1	0	root	irqbalance	irqbalance
1567	1	0	root	sshd	sshd
1761	1	0	root	master	postfix
1764	1761	51	postfix	pickup	postfix
1765	1761	51	postfix	qmgr	postfix

```
zypper ps -sss
```

```
avahi-daemon
irqbalance
postfix
sshd
```

```
zypper ps --print "systemctl status %s"
```

```
systemctl status avahi-daemon
systemctl status irqbalance
systemctl status postfix
systemctl status sshd
```

10 , systemd.

## Zypper

Zypper

```
zypper repos
```

2.1:

```
zypper repos
```

#	Alias	Name	Enabled	GPG Check	
Refresh					
1	Leap-15.1-Main	Main (OSS)	Yes	(r)	Yes
2	Leap-15.1-Update	Update (OSS)	Yes	(r)	Yes
3	Leap-15.1-NOSS	Main (NON-OSS)	Yes	(r)	Yes
4	Leap-15.1-Update-NOSS	Update (NON-OSS)	Yes	(r)	Yes
[...]					

```
zypper repos
```

, URI

가

URI

가

```
zypper repos -d
```

가

가

```
sudo zypper addrepo URI ALIAS
```

URI

,

,

CD

DVD

. ALIAS

Zypper가

zypper

가

가

```
sudo zypper refresh
```



zypper



```
refresh --plus-content
```

```
sudo zypper --plus-content refresh
```

가

zypper remove  
Leap-42.3-NOSS

```
sudo zypper removerepo 4  
sudo zypper removerepo "Leap-42.3-NOSS"
```

zypper modifyrepo

( : , )

20

```
sudo zypper modifyrepo -er -p 20 'updates'
```

- -a:

- -l:

- -t:

- -m TYPE: ( 가 : http, https,  
ftp, cd, dvd, dir, file, cifs, smb, nfs, hd, iso)

renamerepo

Mozilla

Firefox firefox

```
sudo zypper renamerepo 'Mozilla Firefox' firefox
```

# Zypper

Zypper

가 , ,

```
zypper products
zypper patterns
zypper packages
zypper patches
```

```
search
info
```

```
zypper search
/
fire가
```

```
zypper search "fire"
```

MozillaFirefox

```
zypper search --match-exact "MozillaFirefox"
```

```
zypper search -d fire
```

```
zypper search -u fire
```

fir e

```
zypper se "/fir[^e]/"
```

what-provides . Perl  
SVN::Core

```
zypper what-provides 'perl(SVN::Core)'
```

what-provides PACKAGE\_NAME rpm -q --whatprovides PACKAGE\_NAME  
RPM RPM ( ) , Zypper

info .

가

(-t )

가

가

/

--requires --

recommends

```
zypper info --requires MozillaFirefox
```

## Zypper

Zypper Zypper ( )  
/etc/zypp/zypper.conf  
~/.zypper.conf ~/.zypper.conf /etc/zypp/zypper.conf  
가 ~/.zypper.conf 가

Zypper ( : )

```
sudo zypper refresh
```

```
sudo zypper refresh -fdb
```

## Btrfs

Btrfs

**snapper**가

Zypper

**snapper**

Zypper

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