

SLES v15 minor version upgrade

(not in order)

Install tmux AND launch it

```
sudo su
SUSEConnect -p PackageHub/15.6/x86_64

zypper install tmux

exit

tmux
```

Update update tools

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

Upgrade of minor versions (SP = Service Packs) are sequential, i.e. :

- v15.5--15.6
- v15.6--15.7

Check for registered/known products. Should not contain any duplicates.

```
ls -latr /etc/products.d/
```

```
gcp1mlms1:/home/anton # ls -latr /etc/products.d/
total 40
-rw-r--r-- 1 root root 2383 May 18 2024 sle-module-public-cloud.prod
-rw-r--r-- 1 root root 2128 May 18 2024 sle-module-server-applications.prod
-rw-r--r-- 1 root root 1798 May 18 2024 sle-module-containers.prod
-rw-r--r-- 1 root root 2282 Mar 18 2025 sle-module-systems-management.prod
-rw-r--r-- 1 root root 2494 Apr 2 2025 PackageHub.prod
-rw-r--r-- 1 root root 2014 Nov 12 2025 sle-module-python3.prod
-rw-r--r-- 1 root root 2976 Nov 20 2025 SLES.prod
lrwxrwxrwx 1 root root 9 Jun 17 11:51 baseproduct -> SLES.prod
drwxr-xr-x 2 root root 251 Jul 13 16:59 .
drwxr-xr-x 94 root root 8192 Jul 13 17:01 ..
gcp1mlms1:/home/anton #
```

Unregister and register (to forget previous products)

```
export regcode="aaaaaaaaaaaaa"
```

```
SUSEConnect --de-register
```

```
registercloudguest --clean
```

```
SUSEConnect --clean
```

```
SUSEConnect \
```

```
--regcode ${regcode} \
```

```
-p SLES/15.6/x86_64
```

Enable services needed for upgrade (of installed packages)

```
suseconnect -p sle-module-basesystem/15.6/x86_64
```

```
SUSEConnect -p sle-module-containers/15.6/x86_64
```

```
SUSEConnect -p sle-module-server-applications/15.6/x86_64
```

```
SUSEConnect -p sle-module-public-cloud/15.6/x86_64
```

```
SUSEConnect -p sle-module-python3/15.6/x86_64
```

```
SUSEConnect -p sle-module-systems-management/15.6/x86_64
```

```
SUSEConnect -p PackageHub/15.6/x86_64
```

```
Executing '/usr/bin/zypper --disable-repositories --xmlout --non-interactive products -i'
```

```
Executing '/usr/bin/zypper --no-refresh --non-interactive install --no-recommends --auto-agree-with-product-licenses -t product SLES'
```

Available migrations:

- 1 | SUSE Linux Enterprise Server 15 SP7 x86_64
- | **Base**system Module 15 SP7 x86_64
- | Containers Module 15 SP7 x86_64
- | Python 3 Module 15 SP7 x86_64
- | Server Applications Module 15 SP7 x86_64
- | SUSE Package Hub 15 SP7 x86_64
- | Systems Management Module 15 SP7 x86_64
- | Public Cloud Module 15 SP7 x86_64

[num/q]: 1

```
Executing '/usr/bin/zypper --xmlout --non-interactive services -d'
```

Upgrading product SUSE Linux Enterprise Server 15 SP7 x86_64

```
Executing '/usr/bin/zypper --non-interactive repositories SUSE Linux Enterprise Server 15 SP7 x86_64'
```

confirm update

```

The following pattern is going to be upgraded:
minimal_base

The following 7 products are going to be upgraded:
SUSE Package Hub 15
  15.6-0 -> 15.7-0
SUSE Linux Enterprise Server 15 SP6
  15.6-0 -> 15.7-0
Containers Module
  15.6-0 -> 15.7-0
Public Cloud Module
  15.6-0 -> 15.7-0
Python 3 Module
  15.6-0 -> 15.7-0
Server Applications Module
  15.6-0 -> 15.7-0
Systems Management Module
  15.6-0 -> 15.7-0

The following package is going to change architecture:
python3-Twisted
  x86_64 -> noarch

The following 124 NEW packages are going to be installed:
cpio-mt criu dirmngr docker-rootless-extras docker-zsh-completion fuse-overlayfs grep-lang kernel-default-6.4.0-150700.53.66.1 libblas3 l
ibbrotlienc1 libefal libfuse3-3 libhns1 libibverbs libibverbs1 libjansson4 liblapack3 libmana1 libmlx4-1 libmlx5-1 libnet9 libnftables1 lib
python3_11-1_0 libslirp0 libsubid5 lifecycle-data-sle-module-basesystem lifecycle-data-sle-module-python3 openssh-askpass parallel-printer-s
support python3-brotlipy python3-ipaddr python3-protobuf python311-Automat python311-Babel python311-Brotli python311-Jinja2 pyth
on311-M2Crypto python311-MarkupSafe python311-PySocks python311-PyYAML python311-Pygments python311-Twisted python311-Twisted-tls python311
-anyio python311-apipkg python311-argon2-cffi python311-argon2-cffi-bindings python311-attrs python311-base python311-bcrypt python311-cert
ifi python311-cffi python311-charset-normalizer python311-click python311-constantly python311-contextvars python311-cryptography python311
-curses python311-dbm python311-distro python311-dnspython python311-gevent python311-gobject python311-gobject-cairo python311-greenlet py
thon311-h11 python311-h2 python311-hpack python311-httpcore python311-httpx python311-hyperframe python311-hyperlink python311-idna python3
11-immutable python311-incremental python311-iniconfig python311-jmespath python311-looseversion python311-markdown-it-py python311-mdurl
python311-msgpack python311-netaddr python311-numpy python311-packaging python311-passlib python311-pexpect python311-pip python311-ply pyth
on311-psutil python311-psycopg2 python311-py python311-pyOpenSSL python311-pyasn1 python311-pyasn1-modules python311-pycairo python311-py
cares python311-pycparser python311-pycurl python311-pyinotify python311-pytz python311-pyzmq python311-requests python311-rich python311-
rpm python311-salt python311-service_identity python311-setuptools python311-simplejson python311-six python311-sniffio python311-tornado6
python311-typing_extensions python311-urllib3 python311-zope.event python311-zope.interface python311-zypp-plugin rdma-core rdma-ndd rootle
sskit slirp4netns tar-lang tar-rmt wsdd

The following NEW product is going to be installed:
"Basesystem Module"

The following 3 packages are going to be REMOVED:
libsamba-policy0-python3 libsepol1 python3-salt

The following 5 packages have no support information from their vendor:
criu openssh-askpass parallel-printer-support python3-pycares wsdd

The following 2 packages are not supported by their vendor:
python311-argon2-cffi python311-argon2-cffi-bindings

The following package requires a system reboot:
kernel-default-6.4.0-150700.53.66.1

326 packages to upgrade, 124 new, 3 to remove, 1 to change arch.

Package download size: 457.8 MiB

Package install size change:
| 1.60 GiB required by packages that will be installed
467.4 MiB | - 1.14 GiB released by packages that will be removed

Note: System reboot required.

Backend: classic_rpmtrans
Continue? [y/n/v/...? shows all options] (y):
[0] 0:sudo* "gcp1mlms1" 16:48 13-Jul-26

```

Replace version

```
# export releasever="15-SP6"
export releasever="15-SP7"
```

```
# sed -i 's/15-SP5/15-SP6/g' /etc/zypp/repos.d/*.repo
# sed -i 's/15_SP5/15_SP6/g' /etc/zypp/repos.d/*.repo

sed -i 's/15-SP6/15-SP7/g' /etc/zypp/repos.d/*.repo
sed -i 's/15_SP6/15_SP7/g' /etc/zypp/repos.d/*.repo

fgrep -irn ${releasever} /etc/zypp/repos.d/*.repo
```

Switch and refresh

```
# export releasever="15-SP6"
export releasever="15-SP7"
zypper --releasever=${releasever} refresh -f -s
```

Dist Upgrade

```
# export releasever="15-SP6"
export releasever="15-SP7"

zypper \
  --verbose \
  dist-upgrade \
  --releasever=${releasever} \
  --no-allow-vendor-change \
  --no-recommends \
  --download-only

zypper \
  --verbose \
  --releasever=${releasever} \
  dist-upgrade \
  --no-allow-vendor-change \
  --no-recommends \
```

issue:(leave absolute 'docker' package)

Solution 1: install docker-buildx-0.29.0-150000.238.1.x86_64 from vendor SUSE LLC <<https://www.suse.com/>>

Verify

```
zypper --releasever=${releasever} repos -u
```

Refresh

```
export releasever="15-SP7"  
zypper --releasever=${releasever} refresh -f -s
```

Error

```
'Containers Module 15 SP5 x86_64,  
Desktop Applications Module 15 SP5 x86_64,  
Development Tools Module 15 SP5 x86_64,  
Public Cloud Module 15 SP5 x86_64'
```

Activate

```
suseconnect -p sle-module-containers/15.6/x86_64  
suseconnect -p sle-module-development-tools/15.6/x86_64  
suseconnect -p sle-module-public-cloud/15.6/x86_64
```

```
zypper services -u
```

remove service

```
zypper removeservice
```

```

gcp1mlms1:/home/anton # zypper services -u | grep SP5
1 | Basesystem_Module_15_SP5_x86_64 | Basesystem_Module_15_SP5_x86_64 | Yes | ---- | Yes | ris | https://sc
c.suse.com/access/services/2383?credentials=Basesystem_Module_15_SP5_x86_64
3 | Python_3_Module_15_SP5_x86_64 | Python_3_Module_15_SP5_x86_64 | Yes | ---- | Yes | ris | https://sc
c.suse.com/access/services/2438?credentials=Python_3_Module_15_SP5_x86_64
5 | SUSE_Linux_Enterprise_Server_15_SP5_x86_64 | SUSE_Linux_Enterprise_Server_15_SP5_x86_64 | Yes | ---- | Yes | ris | https://sc
c.suse.com/access/services/2374?credentials=SUSE_Linux_Enterprise_Server_15_SP5_x86_64
9 | Server_Applications_Module_15_SP5_x86_64 | Server_Applications_Module_15_SP5_x86_64 | Yes | ---- | Yes | ris | https://sc
c.suse.com/access/services/2391?credentials=Server_Applications_Module_15_SP5_x86_64
gcp1mlms1:/home/anton #
gcp1mlms1:/home/anton #
gcp1mlms1:/home/anton #
gcp1mlms1:/home/anton # zypper removeservice Basesystem_Module_15_SP5_x86_64
Removing service 'Basesystem_Module_15_SP5_x86_64':
Service 'Basesystem_Module_15_SP5_x86_64' has been removed.
gcp1mlms1:/home/anton # zypper removeservice Python_3_Module_15_SP5_x86_64
Removing service 'Python_3_Module_15_SP5_x86_64':
Service 'Python_3_Module_15_SP5_x86_64' has been removed.
gcp1mlms1:/home/anton # zypper removeservice SUSE_Linux_Enterprise_Server_15_SP5_x86_64
Removing service 'SUSE_Linux_Enterprise_Server_15_SP5_x86_64':
Service 'SUSE_Linux_Enterprise_Server_15_SP5_x86_64' has been removed.
gcp1mlms1:/home/anton # zypper removeservice Server_Applications_Module_15_SP5_x86_64
Removing service 'Server_Applications_Module_15_SP5_x86_64':
Service 'Server_Applications_Module_15_SP5_x86_64' has been removed.
gcp1mlms1:/home/anton #
gcp1mlms1:/home/anton #
gcp1mlms1:/home/anton # zypper services -u
# | Alias | Name | Enabled | GPG Check | Refresh | Type | URI
+-----+-----+-----+-----+-----+-----+-----+
1 | Basesystem_Module_15_SP6_x86_64 | Basesystem_Module_15_SP6_x86_64 | Yes | ---- | Yes | ris | https://scc
.suse.com/access/services/2502?credentials=Basesystem_Module_15_SP6_x86_64
2 | Python_3_Module_15_SP6_x86_64 | Python_3_Module_15_SP6_x86_64 | Yes | ---- | Yes | ris | https://scc
.suse.com/access/services/2562?credentials=Python_3_Module_15_SP6_x86_64
3 | SUSE_Linux_Enterprise_Server_15_SP6_x86_64 | SUSE_Linux_Enterprise_Server_15_SP6_x86_64 | Yes | ---- | Yes | ris | https://scc
.suse.com/access/services/2493?credentials=SUSE_Linux_Enterprise_Server_15_SP6_x86_64
4 | SUSE_Linux_Enterprise_Server_x86_64 | SUSE_Linux_Enterprise_Server_x86_64 | Yes | ---- | Yes | ris | plugin:/sus
ecloud?credentials=SUSE_Linux_Enterprise_Server_x86_64&path=/services/2465
5 | SUSE_Package_Hub_15_SP6_x86_64 | SUSE_Package_Hub_15_SP6_x86_64 | Yes | ---- | Yes | ris | https://scc
.suse.com/access/services/2566?credentials=SUSE_Package_Hub_15_SP6_x86_64
6 | Server_Applications_Module_15_SP6_x86_64 | Server_Applications_Module_15_SP6_x86_64 | Yes | ---- | Yes | ris | https://scc
.suse.com/access/services/2510?credentials=Server_Applications_Module_15_SP6_x86_64
7 | Systems_Management_Module_15_SP6_x86_64 | Systems_Management_Module_15_SP6_x86_64 | Yes | ---- | Yes | ris | https://scc
.suse.com/access/services/2945?credentials=Systems_Management_Module_15_SP6_x86_64
gcp1mlms1:/home/anton #
gcp1mlms1:/home/anton #

```

```
zypper \
```

```
--releasever=15-SP6 \
```

```
dist-upgrade \
```

```
--no-allow-vendor-change \
```

```
--no-recommends \
```

```
--download-in-heaps
```

```
zypper \
```

```
--releasever=${releasever} \
```

```
dist-upgrade \
```

```
--no-allow-vendor-change \
```

```
--no-recommends \
```

```
--download-in-heaps
```

```

Visit the SUSE Customer Center to check whether your registration is valid and has not expired.
Please check if the URIs defined for this repository are pointing to a valid repository.
Warning: Skipping repository 'SLE-Module-Server-Applications15-SP6-Updates' because of the above error.
Some of the repositories have not been refreshed because of an error.
Loading repository data...
Reading installed packages...
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
Warning: You are about to do a distribution upgrade with all enabled repositories. Make sure these repositories are compatible before you continue. See 'man zypper' for more information about this command.
Computing distribution upgrade...

The following 2 packages are going to be upgraded:
  release-notes-sles sles-release

The following product is going to be upgraded:
  SUSE Linux Enterprise Server 15 SP5  15.5-0 -> 15.6-0

2 packages to upgrade.

Package download size:      1.0 MiB

Package install size change:
  |          1.6 MiB  required by packages that will be installed
-297.9 KiB | -       1.9 MiB  released by packages that will be removed

Backend: classic_rpmtrans
Continue? [y/n/v/...? shows all options] (y): y
Retrieving: release-notes-sles-15.6.20251031-150600.3.16.2.noarch (SLE-Product-SLES15-SP6-Updates) (1/2), 662.5 KiB
Retrieving: release-notes-sles-15.6.20251031-150600.3.16.2.noarch.rpm .....[done]
Retrieving: sles-release-15.6-150600.64.12.1.x86_64 (SLE-Product-SLES15-SP6-Updates) (2/2), 411.8 KiB
Retrieving: sles-release-15.6-150600.64.12.1.x86_64.rpm .....[done]

Checking for file conflicts: -----[/]
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
Checking for file conflicts: .....[done]
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
(1/2) Installing: release-notes-sles-15.6.20251031-150600.3.16.2.noarch .....[done]
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
(2/2) Installing: sles-release-15.6-150600.64.12.1.x86_64 .....[done]
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.

```

Verify

```
hostnamectl
```

```

gcp1mlms1:/home/anton #
gcp1mlms1:/home/anton # hostnamectl
  Static hostname: n/a
  Transient hostname: gcp1mlms1
    Icon name: computer-vm
    Chassis: vm
    Machine ID: 3157d044927bad96aa9806789a8e5d88
    Boot ID: ebce29dbae5c494899d0b2409793762d
  Virtualization: kvm
  Operating System: SUSE Linux Enterprise Server 15 SP6
    CPE OS Name: cpe:/o:suse:sles:15:sp6
    Kernel: Linux 5.14.21-150500.55.169-default
  Architecture: x86-64
  Hardware Vendor: Google
  Hardware Model: Google Compute Engine
gcp1mlms1:/home/anton #

```

Register machine again

```
SUSEConnect -r ${regcode}
```

Refresh

```
zypper --releasever=${releasever} refresh -f -s
```

Clean old one, once confident

```
ls -la /etc/zypp/repos.d/*15_SP6*  
rm -rf /etc/zypp/repos.d/*15_SP6*
```

```
ls -la /etc/zypp/repos.d/*15_SP5*  
rm -rf /etc/zypp/repos.d/*15_SP5*
```

```
gcp1mlms1:/etc/zypp/repos.d # ls -la /etc/zypp/repos.d/*15_SP5*  
-rw-r--r-- 1 root root 470 Jul 13 13:45 /etc/zypp/repos.d/Basesystem_Module_15_SP5_x86_64:SLE-Module-Basesystem15-SP5-Debuginfo-Pool.repo  
-rw-r--r-- 1 root root 471 Jul 13 13:45 /etc/zypp/repos.d/Basesystem_Module_15_SP5_x86_64:SLE-Module-Basesystem15-SP5-Debuginfo-Updates.repo  
-rw-r--r-- 1 root root 436 Jul 13 13:45 /etc/zypp/repos.d/Basesystem_Module_15_SP5_x86_64:SLE-Module-Basesystem15-SP5-Pool.repo  
-rw-r--r-- 1 root root 466 Jul 13 13:45 /etc/zypp/repos.d/Basesystem_Module_15_SP5_x86_64:SLE-Module-Basesystem15-SP5-Source-Pool.repo  
-rw-r--r-- 1 root root 437 Jul 13 13:45 /etc/zypp/repos.d/Basesystem_Module_15_SP5_x86_64:SLE-Module-Basesystem15-SP5-Updates.repo  
-rw-r--r-- 1 root root 455 Jul 13 13:45 /etc/zypp/repos.d/Python_3_Module_15_SP5_x86_64:SLE-Module-Python3-15-SP5-Debuginfo-Pool.repo  
-rw-r--r-- 1 root root 456 Jul 13 13:45 /etc/zypp/repos.d/Python_3_Module_15_SP5_x86_64:SLE-Module-Python3-15-SP5-Debuginfo-Updates.repo  
-rw-r--r-- 1 root root 421 Jul 13 13:45 /etc/zypp/repos.d/Python_3_Module_15_SP5_x86_64:SLE-Module-Python3-15-SP5-Pool.repo  
-rw-r--r-- 1 root root 451 Jul 13 13:45 /etc/zypp/repos.d/Python_3_Module_15_SP5_x86_64:SLE-Module-Python3-15-SP5-Source-Pool.repo  
-rw-r--r-- 1 root root 422 Jul 13 13:45 /etc/zypp/repos.d/Python_3_Module_15_SP5_x86_64:SLE-Module-Python3-15-SP5-Updates.repo  
-rw-r--r-- 1 root root 470 Jul 13 13:45 /etc/zypp/repos.d/SUSE_Linux_Enterprise_Server_15_SP5_x86_64:SLE-Product-SLES15-SP5-Debuginfo-Pool.repo  
-rw-r--r-- 1 root root 472 Jul 13 13:45 /etc/zypp/repos.d/SUSE_Linux_Enterprise_Server_15_SP5_x86_64:SLE-Product-SLES15-SP5-Debuginfo-Updates.repo  
-rw-r--r-- 1 root root 436 Jul 13 13:45 /etc/zypp/repos.d/SUSE_Linux_Enterprise_Server_15_SP5_x86_64:SLE-Product-SLES15-SP5-Pool.repo  
-rw-r--r-- 1 root root 467 Jul 13 13:45 /etc/zypp/repos.d/SUSE_Linux_Enterprise_Server_15_SP5_x86_64:SLE-Product-SLES15-SP5-Source-Pool.repo  
-rw-r--r-- 1 root root 438 Jul 13 13:45 /etc/zypp/repos.d/SUSE_Linux_Enterprise_Server_15_SP5_x86_64:SLE-Product-SLES15-SP5-Updates.repo  
-rw-r--r-- 1 root root 527 Jul 13 13:46 /etc/zypp/repos.d/Server_Applications_Module_15_SP5_x86_64:SLE-Module-Server-Applications15-SP5-Debuginfo-Pool.repo  
-rw-r--r-- 1 root root 528 Jul 13 13:46 /etc/zypp/repos.d/Server_Applications_Module_15_SP5_x86_64:SLE-Module-Server-Applications15-SP5-Debuginfo-Updates.repo  
-rw-r--r-- 1 root root 493 Jul 13 13:46 /etc/zypp/repos.d/Server_Applications_Module_15_SP5_x86_64:SLE-Module-Server-Applications15-SP5-Pool.repo  
-rw-r--r-- 1 root root 523 Jul 13 13:46 /etc/zypp/repos.d/Server_Applications_Module_15_SP5_x86_64:SLE-Module-Server-Applications15-SP5-Source-Pool.repo  
-rw-r--r-- 1 root root 494 Jul 13 13:46 /etc/zypp/repos.d/Server_Applications_Module_15_SP5_x86_64:SLE-Module-Server-Applications15-SP5-Updates.repo  
gcp1mlms1:/etc/zypp/repos.d # rm -rf /etc/zypp/repos.d/*15_SP5*  
gcp1mlms1:/etc/zypp/repos.d # ls -la /etc/zypp/repos.d/*15_SP5*  
ls: cannot access '/etc/zypp/repos.d/*15_SP5*': No such file or directory  
gcp1mlms1:/etc/zypp/repos.d #
```

Update

```
zypper update
```

```

gcp1mlms1:/etc/zypp/repos.d #
gcp1mlms1:/etc/zypp/repos.d # zypper update
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.
Refreshing service 'Basesystem_Module_15_SP5_x86_64'.
Refreshing service 'Basesystem_Module_15_SP6_x86_64'.
Refreshing service 'Python_3_Module_15_SP5_x86_64'.
Refreshing service 'Python_3_Module_15_SP6_x86_64'.
Refreshing service 'SUSE_Linux_Enterprise_Server_15_SP5_x86_64'.
Refreshing service 'SUSE_Linux_Enterprise_Server_15_SP6_x86_64'.
Refreshing service 'SUSE_Linux_Enterprise_Server_x86_64'.
Refreshing service 'Server_Applications_Module_15_SP5_x86_64'.
Refreshing service 'Server_Applications_Module_15_SP6_x86_64'.
Refreshing service 'Systems_Management_Module_15_SP6_x86_64'.
Loading repository data...
Reading installed packages...
warning: Found NDB Packages.db database while attempting bdb backend: using ndb backend.

The following 9 items are locked and will not be changed by any action:
Available:
  plymouth plymouth-branding-SLE plymouth-devel plymouth-dracut plymouth-lang plymouth-plugin-label plymouth-plugin-label-ft
  plymouth-plugin-script plymouth-scripts

The following 3 package updates will NOT be installed:
  libopenssl1_1 openssl shadow

The following 354 packages are going to be upgraded:
  aaa_base aaa_base-extras apparmor-parser at-spi2-core augeas augeas-lenses autofs autoyast2-installation bash bash-sh bind-utils binutils
  boost-license1_66_0 branding-SLE ca-certificates-mozilla chrony chrony-pool-suse cifs-utils coreutils cracklib cracklib-dict-small
  crypto-policies curl cyrus-sasl cyrus-sasl-digestmd5 cyrus-sasl-gssapi cyrus-sasl-plain cyrus-sasl-saslauthd device-mapper dhcp dhcp-client
  dracut e2fsprogs elfutils ethtool findutils fontconfig fonts-config fping gettext-runtime glo-branding-SLE girepository-1_0 glib2-tools glibc
  glibc-i18ndata glibc-locale glibc-locale-base gpg2 grub2 grub2-i386-pc grub2-x86_64-efi haveged hwdata hwdm iproute2 iputils jq kbd
  kbd-legacy kdump kexec-tools kmod krb5 krb5-client less libX11-6 libX11-data libaio1 libapparmor1 libargon2-1 libasm1 libatspi0 libaugeas0
  libattr1 libblkid1 libbrotli1 libbrotli1-1 libbrotli1-2 libbrotli1-3 libbrotli1-4 libbrotli1-5 libbrotli1-6 libbrotli1-7 libbrotli1-8 libbrotli1-9
  libbrotli1-10 libbrotli1-11 libbrotli1-12 libbrotli1-13 libbrotli1-14 libbrotli1-15 libbrotli1-16 libbrotli1-17 libbrotli1-18 libbrotli1-19
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