



#####

openSUSE Leap — ### ##### ##### ##### ## ##### Linux ### #-
#, ##### ### #####. ## ##### ##### ###, ##### #-
#####, ##### #####, ##### ### #####
#####. Have a lot of fun!

#####: #####

#####: 2023-06-07, #####: 15.5.20230607.b76dd05

#####

- 1 ##### 2
- 2 ##### 5
- 3 ##### # ##### 6
- 4 ##### # ##### 6
- 5 ##### 7
- 6 ##### 8
- 7 ##### 9
- 8 ##### # ##### 9

This is the initial version of the release notes for the forthcoming openSUSE Leap 15.5.

openSUSE Leap, ##. #####
#: https://en.opensuse.org/openSUSE:Release_Notes.

— ##### openSUSE. ##### # ##### ## ##-
<https://www.opensuse.org>.

Report all bugs you encounter using this prerelease of openSUSE Leap 15.5 in the openSUSE Bugzilla. For more information, see https://en.opensuse.org/Submitting_Bug_Reports. If you would like to see anything added to the release notes, file a bug report against the component “Release Notes”.

1

This section contains installation-related notes. For detailed installation instructions, see the documentation at <https://doc.opensuse.org/documentation/leap/startup/html/book-startup/part-basics.html>.

1.1 #####

The installer supports the system role *Transactional Server*. This system role features an update system that applies updates atomically (as a single operation) and makes them easy to revert should that become necessary. These features are based on the package management tools that all other SUSE and openSUSE distributions also rely on. This means that the vast majority of RPM packages that work with other system roles of openSUSE Leap 15.5 also work with the system role *Transactional Server*.



#####: #####

/var ## /srv # ##### RPM-##### %post.
#####. #### ## ##### ##, ##### ## ##-
##.

#:

- ##### btrfs. ##### ##### ##### ##### ##### #####
#####. ##### ## ##### ##### ## #####. #####
#####, ##### # #####.

```
##### ##### ##### ##### ### #####. ## ##### ##### # ##### #####,
##### # #####, ##### ##### ##### ##### ##### ##### ##### ##### #####
## ##### #####. ##### ## ##### ##### ##### ##### ##### #####
##### ##### #####.
##### ##### #####, ##### ##### ##### ##### # ##### #####: #####
##### ##### ##### ##### ##### # /etc, ##### ##### #####
##### ## ##### OverlayFS. /var ##### ##### ##### # ##### ##### #####
#####.
```

! #####: YaST ##### ## #####

YaST ## ##### # #####.### ##### YaST

##-

###.

- #####: transactional-update up
- #####: transactional-update pkg in ###_#####
- #####: transactional-update pkg rm ###_#####
- ### ##### # #####, ### ##### ## ##### ## ###
#####: transactional-update rollback
#####, ##### ## #####-
#####.

03:30 # 05:00 ####. ### #####
systemd # ##### systemctl:

```
systemctl disable --now transactional-update.timer rebootmgr.service
```

openSUSE Kubic:
<https://kubic.opensuse.org/blog/2018-04-04-transactionalupdates/> # <https://kubic.opensuse.org/blog/2018-04-20-transactionalupdates2/>.

1.2 ##### 12

12 ##. ##-
##, #####, #####, #####, #####, #####
#####.

1.3 UEFI — ##### EFI

openSUSE ## #####, ##### UEFI (Unified Extensible
Firmware Interface), ### #####

Windows 8 ### #####
UEFI.

#####: ##### UEFI #####, ##### # #####
UEFI. ### #####
<#####> ##### # #####.

openSUSE #####
UEFI ##
openSUSE. ##### Linux, ##### UEFI ###
(pstore), ## #####
#####.

1.4 UEFI, GPT # ##### MS-DOS

EFI/UEFI ##### #####: GPT (GUID Partition Table). ## ##### (128-##### # ##### 32 #####) ## ##### # #####.

##, ##### UEFI ##### MBR (MS-DOS). ##### Linux (ELILO ## GRUB2) ##### GUID ## #####- ## # #####. ##### GUID ##### ##, ## # ##- #####. ##### ## ##### #: ##### ##- ## # ##### ## ## ##.

#####, ##### # #####, ##### # #####, #####, ##### ##. #####; ## # #####.

##, ##### MBR # ##### GPT.

2

#####, #####. ##### ## #####:

- https://en.opensuse.org/SDB:System_upgrade ↗
- <https://doc.opensuse.org/documentation/leap/startup/html/book-startup/cha-update-osuse.html> ↗

Make sure to also review the following sections of this documentation:

- ##### 3, «##### # #####»
- ##### 7.1, «Usage of 4096 bit RSA RPM and repository signing key»

3 ##### #

3.1

##-##### ##### #####, ## ##### # ##-
openSUSE Leap. ### ##### #####, ## ## ##### ##
#####.

#####, ##### ## ##### #####, ##### ## #####
lifecycle-data-openSUSE, # ##### #####:

```
zypp#r lifecycle
```

3.2

##-##### ##### #####.

- gnome-todo: gnome-todo was replaced by package Endeavour.
- msgpack: msgpack was replaced by msgpack-c and msgpack-cxx.
- nodejs-electron: This old version of Electron is EOL, and we are unable to support this runtime throughout Leap's lifetime due to frequent ABI breaks. Current versions of Electron are still available from the devel:languages:nodejs repository on OBS.

4 ##### #

4.1 Secure Boot: #####

openSUSE Leap 15.2, ##### ##### #####
(CONFIG_MODULE_SIG=y). ##### #####
#####.

UEFI Secure Boot #####. #####
(KMPs) ## ##### openSUSE ## #####, ##### ## ## ##-
openSUSE. ## ##### ##### #####:

- #####, ##### ## #####-
##, #####.

Machine Owner
Key (MOK), # ##### # ##### # ##### # ##### # #####. #-
#####, ##### ## ##### # ##### # #####, ## #####. ##
#. <https://en.opensuse.org/openSUSE:UEFI>.

NVIDIA, ## ##### #
openSUSE. #####, ## ##### MOK ####
#####. ##### # ##### #
MOK-##### https://en.opensuse.org/SDB:NVIDIA_drivers#Secureboot.

4.2 ##### Raspberry Pi 4

USB ##### Raspberry Pi 4 #####. #####
#####, ##### console=tty. ##### # ##### "#####-
#####" ##### Raspberry Pi 4 (https://en.opensuse.org/HCL:Raspberry_Pi4#Boot_from_USB_in_Net_install_image_of_Leap_15.4_hangs_on_boot) [↗](#).

5

This section lists desktop issues and changes in openSUSE Leap 15.5.

5.1 ##### KDE 4 # Qt 4

KDE 4 packages will not be part of openSUSE Leap 15.4. Please update your system to Plasma 5 and Qt 5. Some of Qt 4 packages might still remain for compatibility reasons. https://bugzilla.opensuse.org/show_bug.cgi?id=1179613 [↗](#).

5.2 nouveau disabled for Nvidia Turing and Ampere GPUs / openGPU recommendation

The `nouveau` driver is still considered experimental for Nvidia Turing and Ampere GPUs. Therefore it has been disabled by default on systems with these GPUs.

Instead of using the `nouveau` driver we recommend using Nvidia's new openGPU driver. Install this driver by installing these following packages:

- `nvidia-open-driver-G06-signed-kmp-default`
- `kernel-firmware-nvidia-gsp-G06`

Then uncomment the `options nvidia` line in the `/etc/modprobe.d/50-nvidia-default.conf` file so that it looks like the following afterwards:

```
### Enable support on *all* Turing/Ampere GPUs: Alpha Quality!
options nvidia NVreg_OpenRmEnableUnsupportedGpus=1
```

If you prefer using `nouveau` driver anyway, add `nouveau.force_probe=1` to your kernel boot parameters, and do not install the above openGPU package.

5.3 Starting ibus automatically under KDE Plasma

`ibus` does not start automatically under KDE Plasma. This can be fixed by adding the appropriate command to the autostart section. To do that, go to System Settings, Startup and Shutdown, Autostart and there click on the Add... button, and then click on Add Application.... In the opened dialog window type `ibus-daemon -x` into the text box and click OK. For more information see https://bugzilla.suse.com/show_bug.cgi?id=1211977.

6

6.1 ##### iotop

`iotop` ## ##### SWAPIN # IO %.

Linux 5.14, ##### ##### ##### #####
`delayacct`, ##### `sysctl-##### kernel.task_delayacct`.

7

This section lists changes to security features in openSUSE Leap 15.5.

7.1 Usage of 4096 bit RSA RPM and repository signing key

We switched the RPM and repository signing key of openSUSE Leap 15.5 from 2048 bit RSA to a 4096 bit RSA key. This key was previously introduced to openSUSE Leap 15.4 users in a maintenance update. Users upgrading from older releases will need to import the new key manually as described in https://en.opensuse.org/SDB:System_upgrade#0._New_4096_bit_RSA_signing_key.

8 ##### #

- ##### README ## #####.

- ##### ##### ##### ##### ##### ## ## RPM:

```
rpm --changelog -qp ###_####.rpm
```

###_#### ## ## RPM.

- ##### ##### ##### # ##### ##### # #####
ChangeLog ## #####.
- ##### ##### ## ##### # ##### docu ## #####.
- ##### # ##### ## ##### <https://doc.opensuse.org/>.
- ##### ##### ## openSUSE ## ##### <https://www.opensuse.org/>.

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