



#####

openSUSE Leap — ## ##### ##### ## ##### Linux ### #####
##, ##### ## #####. ## ##### ##### #####, #####-
#####, ##### #####, ##### ## ##-
#####!

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

#####

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

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

```
#### ## ##### # ##### ##### ## ##### ##### openSUSE, ###. ##### #####
###: 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 #####** ##### ##### ##### ##### ##### ##### #####
Btrfs. ##### ## ##### ##### # ### ##### Btrfs. ### #####
#####, ## ##### ##### # ##### #####.

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

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



#####

12 ## ##
Btrfs.



#####YaST ## #####

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

#####., ##### ##### transactional-
update ##### YaST # Zypper ### ##### ##

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

03:30 ##### 05:00 #####. #####
#####, ## ##### 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—Unified Extensible Firmware Interface (##### #####)

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»

UEFI Secure Boot. ##### (KMP) # ##### openSUSE ## ## #####, #####
#####, ## #####, ##### openSUSE. ##### ## ## #####:

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

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

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

4.2 Network install image hangs on boot on Raspberry Pi 4

Booting the network install image from USB stick on Raspberry Pi 4 hangs on boot. To resolve this issue, add the `console=tty` boot parameter. See details in the known issues section of our Raspberry Pi 4 Hardware Compatibility List (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 ## ##### openSUSE Leap 15.4. ##### ##
Plasma 5 ## Qt 5. ##### Qt 4 ##### # #####. 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 ↗.

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6.1 iotop support

iotop does not display values for SWAPIN and IO %.

Since Linux kernel 5.14, either kernel boot parameter delayacct needs to be specified or kernel.task_delayacct sysctl needs to be enabled.

7 Security

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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