



#####

!#####

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

#####

2 #####	1
4 #####	2
5 #####	3
5 ##### #	4
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Security 7	7
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```

:### ##### ##### ##### #Leap ### ##### ### ##### ## ##### ## ##
. ↗ https://en.opensuse.org/openSUSE:Release_Notes
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-1/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**.

```
##### ### ##### :#####
### ##### ### . post% ### ##### RPM ### ## srv/ ## var/ ##### ##### ##### ### #####
.### ##### ##### ### # ##### ### ### ##### ### #####
```



```

:### ### ##### ##### ##### # ##### ### #####

```

```
##### Btrfs ##### # ##### .Btrfs #####  
##### # ##### .Btrfs ##### # #####  
.#####  
#####
```

.### ##### ##### ##### ●
.### ##### ##### ##### #####
#####

```
##### :#####  
_OverlayFs . /var #####  
##### #etc/ #####  
#####
```

12 ##### :###
#####



.Btrfs ##### 12 #####

:###



```
#####  
#####  
#####
```

```
##### Transaction-update #####  
:#####
```

Transaction-update up :#####

transactional-update pkg in

transactional-update pkg rm:#####

#####

transactional-update:#####

rollback

.#####

#####

systemd ##### 05:00 # 03:30

: systemctl #####

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

#

<https://kubic.opensuse.org/> # <https://kubic.opensuse.org/blog/2018-04-04-transactionalupdates> #####

.<https://kubic.opensuse.org/blog/2018-04-20-transactionalupdates2>

12 ##### 1.2

.##### 12

#####

.#####

UEFI ##### 1.3

```
##### ,(#####) UEFI #####  
##### Windows 8 #####.UEFI #####  
##### UEFI #####:#####  
."#####"  
#####  
##### UEFI #####  
##### (pstore) UEFI #####  
#####
```

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

```
##### (GUID #####) GPT :##### ## ### ## EFI/UEFI #####  
##### (32 ##### ## ##### ##### ##-128 ###) #####  
#####  
##### (MBR (MS-DOS ##### UEFI #####  
##### GUID ##### (GRUB2 ## ELILO)  
##### .#####  
##### GUID .#####  
##### :##### ##  
#####  
#####  
##### ##  
#####  
#####
```

2

```
##### ##### ##### ### ##### .##### ##### ##### ##### ##### ## ####  
https://doc.opensuse.org/documentation/leap/startup/html/book.opensuse.startup/ ## ##### ####  
.📄 cha.update.osuse.html
```

🔗 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 ### ●

"Usage of 4096 bit RSA RPM and repository signing key" #7.1 ### ●

3

3.1

##

To check whether installed packages are no longer maintained, make sure that the `lifecycle-data-:openSUSE` package is installed, then use the command

```
zypper #####
```

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

Starting with openSUSE Leap 15.2, kernel module signature check for third-party drivers (`CONFIG_MODULE_SIG=y`) is now enabled. This is an important security measure to avoid untrusted code running in the kernel

```

### ##### ## .UEFI# ##### ##### ##### ## ## ##### ##### ##### ##### ##### ##### ##
##### ##### ##### ##### ##### ##### ## # ##### ##### ##### ##### ## (KMPs) #####
:##### ##### ##### ##### ##### ## .#### ##### ##### ##### #####

## ##### ## ##### ## ##### ##### ##### ## ##### ## ##### ##### ##### ## ##### •
.##### ##### ##### ##### ##### ##### ##### ##### ##### ## ##

# ##### (MOK) ##### ##### ##### ##### ## ##### # ##### ##### ##### ##### ##
##### ##### ##### ##### ## .##### ## ##### ##### ##### ##### ##### #####
.🔗 https://en.opensuse.org/openSUSE:UEFI ##### #####.##### ##### #####

##### ##### ## ## ##### ## # ##### ##### ##### ##### ##### ## ##### ##### ## ##
##### ##### ##### ##### ## ##### ##### MOK ##### ##### ## ##### # ## ## .####
https:// ##### ##### #MOK ##### ##### ##### ##### ##### ##### ##### ##### ##### .####
.🔗 en.opensuse.org/SDB:NVIDIA_drivers#Secureboot

```

Network install image hangs on boot on Raspberry Pi 4 4.2

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

KDE 4 and Qt 4 removal 5.1

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. 🔗

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

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

Starting ibus automatically under KDE Plasma 5.3

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](https://bugzilla.suse.com/show_bug.cgi?id=1211977)

6

iostat support 6.1

.% iostat 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

Security 7

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

Usage of 4096 bit RSA RPM and repository signing key 7.1

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 FILENAME.rpm : #####
```

.RPM ##### ##### #####

ChangeLog ##### •

.##### ##### ##### #####

.##### ##### docu ##### ## ##### ## ##### ##### •

.<https://doc.opensuse.org> ##### ##### ##### ## ##### ## ##### ##### •

.<https://www.opensuse.org> ##### ##### ## ##### ##### ##### ##### •

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