
openSUSE 12.2 Release Notes

#####:

12.2.8 (2012-08-21)

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GNU ###
Software Foundation; ###

fd1.txt.

openSUSE, ##.
http://en.opensuse.org/openSUSE:Release_Notes

#####:

- ##### 1, «#####»: ### ##### ## openFATE, #####
(<http://features.opensuse.org>).

N/A

- ##### 2, «#####»: #####, ##### «# #».
- ##### 3, «#####»: #####.
- ##### 4, «#####»: #####, # #####
openSUSE.
- ##### 5, «#####»: #####
#####.

1.

N/A

2.

2.1.

For detailed installation information, see the «openSUSE Documentation» referenced below.

3.

3.1. ##### openSUSE

- # ##### KDE # Gnome # ##### LibreOffice. #####
(#####) # ##
bash.

- #####
#####.
- #####, ##
#####, ## # #####.
- ##### # ##-
#####.
- ##### # KVM ##### # #####
KVM, libvirt # QEMU.

4.

4.1. ##### «zypper dup»

openSUSE 12.1 (#####) ##### openSSH #####
openssh. ##### «zypper dup» ## SSH, #####
«zypper dup» # ##### (#####, «screen» ## «tmux»), #####
#####, ## # ##### # ##### (#####,
«nohup»).

4.2. ##### sysvinit

systemd. #####
#####, ##### openSUSE 12.2 ##### sysvinit ##
sysvinit # #####-#
#####. ## # #####, ##### sysvinit, #####
systemd.

4.3. mount # losetup ##### cryptoloop

cryptoloop ##### dm-crypt
###. mount (##### /etc/fstab) # losetup #####-#
cryptoloop. ### # fstab, ##### cryptoloop ##
#####. ##### #
dm-crypt (/etc/crypttab). ##### # http://en.opensuse.org/Encrypted_Fileystems

4.4. ##### systemd

systemd, ## ##-
noauto ## # /etc/fstab. #####
nofail #####, #####:

```
/dev/mapper/cr_sda3 /home ext4 acl,user_xattr,noauto 0 2
##
```

```
/dev/mapper/cr_sda3 /home ext4 acl,user_xattr,nofail 0 2
```

5.

5.1. ##### # KMS (Kernel Mode Setting)

With openSUSE 11.3 we switched to KMS (Kernel Mode Setting) for Intel, ATI and NVIDIA graphics, which now is our default. If you encounter problems with the KMS driver support (intel, radeon, nouveau), disable KMS by adding nomodeset to the kernel boot command line. To set this permanently using Grub 2, the default boot loader, add it to the GRUB_CMDLINE_LINUX_DEFAULT kernel default load options line in your /etc/default/grub text file as root and running the terminal command

```
sudo /usr/sbin/grub2-mkconfig --output=/boot/grub2/grub.cfg
```

for the changes to take effect. Else, for Grub Legacy, add it to the kernel command line in /boot/grub/menu.lst, also done as root. This option makes sure the appropriate kernel module (intel, radeon, nouveau) is loaded with modeset=0 in initrd, i.e. KMS is disabled.

```
# #####, ##### DRM ## initrd ##### # ## ##-
##### # KMS, ##### DRM # initrd. ## ##-
##### sysconfig NO_KMS_IN_INITRD # yes ##### YaST, ## ## initrd #####.
#####.
```

```
## ##### Intel ## KMS Xserver ##### fbdev (##### intel #####-
## ##### KMS); # ##### ## Intel #####
##### «intellegacy» (##### xorg-x11-driver-video-intel-legacy), ## ##-
##### UMS (User Mode Setting). ## ## ##### /etc/X11/
xorg.conf.d/50-device.conf # ##### ## intellegacy.
```

```
## ##### ATI ##### radeonhd. ## ##### NVIDIA
## KMS ##### nv (##### nouveau ##### KMS). #####
#####, ##### ## ATI # NVIDIA ## #####
nomodeset ##### fbdev.
```

5.2. ##### sysvinit

```
## ##### openSUSE ##### ## systemd. # ##### ##-
##### ## ## sysvinit, ##### F5 #####.
```

5.3. systemd:

systemctl ##### «#####» ##### (##. <http://www.freedesktop.org/wiki/Software/systemd/Incompatibilities>).

```
### #####, #####, #####:
```

```
cd /etc/init.d
./apache2 <####_#####>
```

5.4. systemd:

```
### ##### systemd ##### halt -p ## shutdown -h
now # #####, #####.
```

```
#####: ##### halt ## ##### #####.
```

5.5. systemd: ##### tmpfs: /run, /var/run, /media # #.

```
systemd #####, #####, ##
##### tmpfs: ##### /run, /var/run, /var/lock # /media.
#####: http://lwn.net/Articles/436012/.
```

```
#####: ##, ##, # /
run, /var/run # #.
```

5.6. systemd: ##### (/tmp # /var/tmp)

```
systemd #####, ## # tmpfiles.d # /lib/systemd/system/
systemd-tmpfiles-clean.timer. ##### ## #
#### tmpfiles.d.
```

```
## systemd tmp, ## # /usr/lib/tmpfiles.d/
tmp.conf:
```

```
d /tmp 1777 root root 10d
d /var/tmp 1777 root root 30d
```

```
#####: systemd ##### sysconfig # /etc/sysconfig/cron, #####
TMP_DIRS_TO_CLEAR.
```

5.7. ##### USB-#####

Gnome and Xfce now use `udisks2` to automatically mount USB media under `/run/media/$USER`. KDE still uses `udisks` version 1 and mounts USB media under `/media`.

5.8. ##### # ##### # /etc/adjtime

```
##### /etc/adjtime ##### #, #####
# BIOS — ##### UTC (##### HWCLOCK
##### /etc/sysconfig/clock).
```

```
#### /etc/adjtime ##### (#####, #####
# ##### ntpdate ### ntpd), #####
USE_ADJUST # ##### /etc/sysconfig/clock ##### "no".
```

5.9. GNU tar ## ##### POSIX-#####

```
GNU tar ## --format=posix # POSIX-##-
##### PAX. #####, ## #
# #####.
```

```
##### (## #) #####, #####-
#####:
```

```
TAR_OPTIONS='--format=gnu'
```

```
###
```

```
TAR_OPTIONS='--pax-option=delete=[ac]time*'
```