

```
##### # ##### openSUSE 12.3
```

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```
#####  
##### GNU ##  
##### Free Software Foundation; ##  
#####  
##### fdl.txt.
```

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```
#### ## ##### # ##### ##### ## ##### ##### 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. ##### ##

3.1, «##### openSUSE» ##### ##### ## #####.

2.2. ### ####

NetworkManager ## #####, ##### ##-
WiFi. ### ##### # #### (WiFi) #####.

2.3. ##### NVIDIA ##### # ##### /dev/nvidia*

video #####. ##
NVIDIA ##### # ##### /dev/nvidia*.

#####: OpenGL-##### # ##### # /dev/nvidiactl. ##
GNOME ##### # ##### # #####.

NVIDIA ## ##### #
ACL ## #####, ##### # ##### video #####; ##
root ##### (##### \$USER ## #####):

usermod -a -G video \$USER

2.4. Non-existent Floppy Drive Enabled in BIOS Causes Hang

If a floppy drive support is enabled in the BIOS, but does not actually exist in the machine, it can cause hangs during the installation while YaST is searching for partitions.

To avoid this issue, disable floppy drive support in the BIOS.


```
### ##### # live-##### YaST ## ##### ##### UEFI # ####-  
##### #####. ### ##### # ####, ### ##### # #####. ##### ####-  
#### ##### # grub2 ## grub2-efi #####.
```

3.5. # ##### openSUSE 12.3 ##### ## ##### ##### ##### # #####

```
### ##### ##### # UEFI.
```

```
### ##### shim # ##### openSUSE 12.3 ##### #####.
```

```
#### ##### # ##### openSUSE 12.3 ## ##### # #####  
# ##### #, ## ##### # #####  
##### openSUSE # ##### #, ##### shim.
```

```
##### ##### ##### ##### #####.
```

3.6. ### ##### LVM # ##### UEFI ##### #- ### /boot

```
### ##### ##### # ##### UEFI.
```

```
# ##### # ##### LVM (### #####  
##### YaST ## ##### /boot. ### ##### # ####, ### #####  
# initrd ##### # (#####) ##### LVM, #####  
### ##### UEFI #####.
```

4.

4.1. Sysvinit Support No Longer Available

sysvinit is no longer supported in this release. It has been deprecated since the last two releases.

4.2. systemd: ##### NetworkManager # ##### ##### network.service

```
## ##### NetworkManager ## ##### YaST #####  
(yast2 network). #### # ##### NetworkManager, #####.
```

```
##### NETWORKMANAGER # ##### /etc/sysconfig/network/config ##  
NetworkManager #### # ##### systemd network.service, #####  
#####
```

```
systemctl enable NetworkManager.service
```

```
##### ##### # ##### network.service, ##-  
##### NetworkManager.service # ##### /etc/init.d/network. ##-  
#####
```

```
systemctl -p Id show network.service
```

```
#####  
##### # ##### # ##### # ##### # #####.
```

```
##### NetworkManager:
```

- #####:

```
systemctl is-active network.service && \  
systemctl stop network.service
```

- ##### NetworkManager:

```
systemctl --force enable NetworkManager.service
```

- ##### NetworkManager (#####):

```
systemctl start network.service
```

```
##### NetworkManager:
```

- #####:

```
systemctl is-active network.service && \  
systemctl stop network.service
```

- ##### NetworkManager:

```
systemctl disable NetworkManager.service
```

- ##### /etc/init.d/network:

```
systemctl start network.service
```

```
### ##### # ##### # ##### # #####.
```

```
systemctl -p Id show network.service
```

```
### ##### "Id=NetworkManager.service" # ##### NetworkManager  
# "Id=network.service" # #####, ##### # #####  
/etc/init.d/network.
```

4.3. ##### SYSLOG_DAEMON

```
##### SYSLOG_DAEMON #### # #####. ##### # #####  
syslog. ##### # openSUSE 12.3, ##### syslog #####  
#####, #####.
```

```
##### syslog(8).
```

5.

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

```
# openSUSE 11.3 ## ##### # KMS (Kernel Mode Setting) ## ##### Intel, ATI # NVIDIA,  
##### # #####. ##### # ##### # ##### KMS
```

```
##### (intel, radeon, nouveau), ##### KMS, ##### nomodeset # ##### #####  
### ##### # Grub 2, ##### # #####, ##### # # #####  
### ##### # GRUB_CMDLINE_LINUX_DEFAULT # ##### /etc/default/  
grub ## ##### root # #####
```

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

```
### #####. #### # ##### Grub Legacy, ##### # # #####  
#### # ##### /boot/grub/menu.lst. #### #####, #####  
#### (intel, radeon, nouveau) ##### # initrd # ##### modeset=0, #.#. #####-  
### KMS.
```

```
# #####, ##### ##### 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. systemd: ##### (/tmp # /var/tmp)

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

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

5.3. systemd: Persistent Journal across Reboots

On openSUSE 12.3, the systemd journal is not persistent across reboots. If you want to enable journal persistence, either create the `/var/log/journal` directory (as root) or install the `systemd-logger` package. Installing `systemd-logger` package will signal a conflict with other syslog implementations, and thus ensuring that the system uses only the systemd journal, if installed.

If your system has been upgraded from openSUSE 12.2 (where `/var/log/journal` was created by default) and if you want to disable journal persistence, just remove the `/var/log/journal` directory.

5.4. pwutils ##### ## shadow

```
##### pwutils ## ##### shadow. ## ##### shadow #####  
#####, ## ##### # #####  
##### # /usr/share/doc/packages/shadow/README.changes-pwutils.
```

5.5. ##### Postfix

```
SuSEconfig.postfix ### ##### # /usr/sbin/config.postfix. #### ## #####  
##### sysconfig # /etc/sysconfig/postfix bkb /etc/sysconfig/mail, ## #####  
##### /usr/sbin/config.postfix ## ##### root.
```

5.6. ##### GTK+ ##### fontconfig

```
##-## ##### ##### fontconfig Emacs # #####, ##### # GTK+,  
##### ##.
```

```
##### # #####:
```

```
mkdir -p ~/.config/fontconfig  
mv ~/.fonts.conf ~/.config/fontconfig/fonts.conf
```

5.7. GNOME: ##### Shift ### Ctrl+Shift ####- ##### #####

```
# GNOME 3.6 ##### Shift ### Ctrl+Shift ##### ##-  
### ## #####:
```

1. ##### gnome-tweak-tool.
2. ##### gnome-tweak-tool ('Activities'>'advanced settings').
3. # ##### 'Typing', # #####.

```
### ##### https://bugzilla.gnome.org/show\_bug.cgi?id=689839.
```

5.8. ##### ## SSH ##### SuSEFirewall

```
## ##### SSH YaST #####. ## ##### SuSEFirewall,  
##### SYSTEMCTL_OPTIONS #####.
```

```
#####: ## ##### # ##### #####  
##### yast.ssh # ##### --ignore-dependencies:
```

```
SYSTEMCTL_OPTIONS=--ignore-dependencies yast.ssh
```