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# openSUSE 13.1 ####

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##### fdl.txt#

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##### openSUSE ##### [http://en.opensuse.org/openSUSE:Release\\_Notes](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 ##”#

## 3. ####

### 3.1. openSUSE ##

# ##### KDE # Gnome ##### LibreOffice #####  
## bash ####

##### opensuse-startup\_\${LANG} ##### /usr/share/doc/manual/opensuse-  
manuals\_\${LANG} ##### <http://doc.opensuse.org>#

### 3.2. #### YaST ##

### YaST #####

- yast2-autofs
- yast2-dbus-client
- yast2-dirinstall
- yast2-fingerprint-reader
- yast2-irda
- yast2-mouse
- yast2-phone-services
- yast2-power-management
- yast2-profile-manager
- yast2-sshd
- yast2-tv

#####

### 3.3. UEFI—#####

```
### openSUSE ### UEFI (#####) #####
Windows 8##### UEFI ###
```

```
##### ## UEFI ##### UEFI ##### openSUSE ###
##### UEFI ## openSUSE ##### Linux ##### UEFI ##
##### (pstore)#####
```

### 3.4. UEFI#GPT # MS-DOS #####

```
# EFI/UEFI #####GPT#GUID Partition Table##### GUID#128#####32##
#####
```

```
###UEFI ##### MBR#MS-DOS##### Linux #####ELILO # GRUB2##### GUID #####
##### GUID #####
```

```
#####garbage collector#####entries#####entries#####
#####entries#####
```

```
##### MBR ##### GPT #####
```

### 3.5. ### Secure Boot ###

```
##### UEFI Secure Boot #####
```

```
# openSUSE 12.3 ##### shim ##### Secure Boot #####
# BIOS ##### BIOS ##### openSUSE #####http://en.opensuse.org/
openSUSE:UEFI##### openSUSE ###
```

### 3.6. Adobe Reader (acroread) ##### PDF ###

```
## Adobe ##### Adobe Reader (acroread) ##### openSUSE #####acroread #####
```

openSUSE includes various PDF viewing tools like Okular, Evince, and poppler-tools. These tools are actively maintained and get security fixes from openSUSE and their upstream authors.

For more information, see [http://en.opensuse.org/Adobe\\_Reader](http://en.opensuse.org/Adobe_Reader).

## 4. #####

### 4.1. ## Zypper (dup) ##### /etc/fstab #####

```
### zypper dup (## YaST #####)#####
```

```
tmpfs    /dev/shm
devpts   /dev/pts
sysfs    /sys sysfs
proc     /proc proc
```

```
## Gnome ##### Gnome #####"grantpt failed: Operation not
permitted"##### systemd ##### /etc/fstab ####
```

## 4.2. ## SYSLOG\_DAEMON ##

```
SYSLOG_DAEMON ##### syslog #### openSUSE 12.3 ##### syslog ####
#####
```

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

## 4.3. Duplicated Network Interfaces

```
### systemd #####YaST #####
```

```
##### YaST ##### /etc/
sysconfig/network ### YaST #####
```

```
#####
PredictableNetworkInterfaceNames/# http://www.freedesktop.org/wiki/Software/systemd/
```

## 5. ####

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

```
# openSUSE 11.3 #### Intel#ATI # NVIDIA ##### KMS (Kernel Mode Setting)#### KMS ##
#### (intel#radeon#nouveau) ##### nomodeset ### KMS##### Grub2 (#####)
##### root ##### /etc/default/grub ## GRUB_CMDLINE_LINUX_DEFAULT
#####
```

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

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

```
##### initrd ## DRM ##### KMS ##### initrd ##### DRM ##### YaST
## sysconfig ## NO_KMS_IN_INITRD#### yes##### initrd#####
```

```
##### KMS # Intel ###X server ##### fbdev ##### (intel ##### KMS)##### Intel #
##"intellegacy" ##### (xorg-x11-driver-video-intel-legacy ##)#### UMS (User
Mode Setting)##### /etc/X11/xorg.conf.d/50-device.conf ### driver #####
intellegacy#
```

```
## ATI ##### KMS#X server ### radeonhd### NVIDIA#### nv (nouveau ##### KMS)#
##### ATI # NVIDIA ##### nomodeset##### fbdev#
```

### 5.2. ## Nouveau #####

```
##### NVIDIA ##### nouveau #####
nouveau #####
```

```
##### grub ####'##'## 'e' ##### 'Linux'## 'linuxefi'#####
brokenmodules=nouveau ##### F10 ##### nouveau ##### /
etc/modprobe.d/50-blacklist.conf ##### nouveau ###
```

## 5.3. Samba Version 4.1

```
openSUSE 13.1 #### Samba 4.1 #### Active Directory ##### MIT
Kerberos ####
```

## 5.4. ## Postfix

```
# openSUSE 12.3 ###SuSEconfig.postfix ### /usr/sbin/config.postfix##### /
etc/sysconfig/postfix # /etc/sysconfig/mail ##### sysconfig ##### root ##### /
usr/sbin/config.postfix#
```

## 5.5. xinetd#####

```
xinetd ##### /var/log/xinetd.log ##### xinetd #####
#####
```

```
##### /etc/xinetd.conf ##### xinetd.log ### logrotate ##### /usr/
share/doc/packages/xinetd/logrotate ###
```

## 5.6. Apache 2.4

```
Apache 2.4 ##### http://httpd.apache.org/docs/2.4/upgrading.html#
```

## 5.7. tomcat#####

```
tomcat ##### /var/log/tomcat/catalina.out##### tomcat.service
(tomcat-jsvc.service) #####
```

## 5.8. Darktable#####

```
##### openSUSE 13.1##### ~/.cache/darktable/mipmaps#
```

## 5.9. Locate### findutils-locate # mlocate

```
## findutils-locate ### mlocate ##### mlocate ## findutils-locate ##### 24 #####
#####permission handling#####
```

In case you encounter a "Permission denied" message shortly after installing **mlocate**, run

```
/etc/cron.daily/mlocate.cron
```

as root once.

## 5.10. KDE #####

```
##### Bluez 5 (#####) ##### GNOME #####
## KDE ##### Bluez 4#
```

```
## openSUSE KDE ##### Bluedevil #####
##
```

```
#### Bluedevil # Bluez 5 ##### KDE #####
```

## 5.11. AppArmor #####

AppArmor #####  
#####AppArmor#####Bug#####AppArmor#####

## 5.12. Skype

## Skype 4.2 ##Linux #### PulseAudio 4.0 ##### Skype ##### **skype** #

PULSE\_LATENCY\_MSEC=60 skype

##### <http://arunraghavan.net/2013/08/pulseaudio-4-0-and-skype/#>