



Release Notes

openSUSE 13.2

openSUSE is a free and Linux-based operating system for your PC, Laptop or Server. You can surf the web, manage your e-mails and photos, do office work, play videos or music and have a lot of fun!

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رادصإل ا تاظحال م رظنا ، openSUSE رادصإل ا اذه إل م يدق رادصإل م ةيقرتل اب تمق اذإ رادصإل ا تاظحال م رظنا ، openSUSE رادصإل ا اذه إل م يدق رادصإل م ةيقرتل اب تمق اذإ
http://en.opensuse.org/openSUSE:Release_Notes :انه ةجر دملا قبا سلا

1 تيبتل ا

1.1 تيبتل ا ن ع ةل ص ف م تامل م ع ل ع لوصحلل

عجل ، تيبتل ا ن ع ةل ص ف م تامل م ع ل ع لوصحلل ، 2.1.1. #####

2 اماع

2.1 يزوس نبوا قئاثو

حطسل تامدق م لئلذكو ، قوطخب قوطخ تيبتل ا تاداشرا دجت ، ليغشتلا ءدب يف قراؤو رشن لثم قراؤلل ةيساسال ا عيضاوملا اضيأ . سي فوأ ربيل و مونجو يديك بتكملا لشل ا ل ع فرعتلل ةمدق مو ، جملابل

تيبتل ا دعب <http://doc.opensuse.org> يف تنرتنإل ا ل ع وأ ، <http://doc.opensuse.org> `opensuse-startup_$LANG` ةمزح `/usr/share/doc/manual/opensuse-manuals_$LANG` يف قئاثول ا دجتس

2.2 دتمملا تباثلا جمانربلا ةهجاو—UEFI

Prior to installing openSUSE on a system that boots using UEFI (Unified Extensible Firmware Interface), you are urgently advised to check for any firmware updates the hardware vendor recommends and, if available, to install such an update. A pre-installed Windows 8 is a strong indication that your system boots using UEFI.

Background: Some UEFI firmware has bugs that cause it to break if too much data gets written to the UEFI storage area. Nobody really knows how much "too much" is, though. openSUSE minimizes the risk by not writing more than the bare minimum required to

boot the OS. The minimum means telling the UEFI firmware about the location of the openSUSE boot loader. Upstream Linux Kernel features that use the UEFI storage area for storing boot and crash information (pstore) have been disabled by default. Nevertheless, it is recommended to install any firmware updates the hardware vendor recommends.

2.3 UEFI, GPT، ماسق أو MS-DOS

Together with the EFI/UEFI specification, a new style of partitioning arrived: GPT (GUID Partition Table). This new schema uses globally unique identifiers (128-bit values displayed in 32 hexadecimal digits) to identify devices and partition types.

Additionally, the UEFI specification also allows legacy MBR (MS-DOS) partitions. The Linux boot loaders (ELILO or GRUB2) try to automatically generate a GUID for those legacy partitions, and write them to the firmware. Such a GUID can change frequently, causing a rewrite in the firmware. A rewrite consist of two different operation: removing the old entry and creating a new entry that replaces the first one.

نم قرئاذل ررحتو ةفوذحمل تال اخدال ا عي م ج تب موقت ةشي دحل ا ةتب اثل ا جمل ربل ا ع م ج ء انثأ ةتب اثل ا جمل ربل ا ي ف ل ل خ دوجو دن ع ةل كش م أشنت دق . ةمي دق ل ا تال اخدال ا ع ل ق ل ا ل ع م اظنل ا قردق مدع ي ف بب س تي دق اذو ؛ تال اخدال ا هذه ريرحتو . امامت ةل كش م ل ا هذه يدافتل ديدج GPT ل ا مي دق ل ا MBR مسق ل ل وحت : طي سب ل حل ا .

2.4 ن مأل ا ع ل ق ل ا ا عضو ي ف نوكت ا مدن ع ع ل ق ل ا ا

ن مأل ا ع ل ق ل ا ا ني كمت دن ع UEFI عضو ي ف قزه جأل ا ل ع طقف رثؤي اذه

The new version of the shim loader allows more machines to boot with Secure Boot enabled than with openSUSE 13.1. Nevertheless, in case of trouble, first update the BIOS of your machine to the latest version. If the BIOS update does not help, report the model of your machine to the wiki (<http://en.opensuse.org/openSUSE:UEFI>). Then we can track it for the next release.

3 م اظنل ا ةي قرت

4 ينقت

4.1 عم تيبتثتلا ةيل مع ءانثأ ةشاشلا ىل ع ةلمهملات انايبل Nouveau ةق اوس

يولعل ءزجل ايف شيشوشت تبثمل رهظي دق، NVIDIA تاقاطب عم ةمظنأل اضعب يف هذه لتهجاو اذا. nouveau يضلرتفال ل يغشتلا جمانرب عم لكاشم ببسب ةشاشلا نم مثنمو تبثمل ل يغشتل kernel nouveau ةيظمنلا قدحول ليطعت لئكمي، ةلئشمل اماظنلا ةيقرت وأ تيبتثت دعب ىرخأ قمر اهنئكم.

ددح، تيبتثتلا طئاسو ل يغشت درجمب kernel، ةيظمنلا قدحول ليطعتل يذلل رطسلال ىل إبهذا مثن. تاملعمل ريرحتل 'e' رتخا مثن grub ي ف 'تيبتثت' رايج. ةيانهللا ي ف `brokenmodules=nouveau` ةفاضإب مقو 'linux' (or 'linuxefi') ةملئب ءدبي تيبتثت دعب. ةديدللا تاملعمل عم عالقإل ةعباتمل F10 حاتفملال ىل ع طغضانأل ا. `/etc/modprobe.d/50-blacklist.conf` ريرحتب nouveau ةيظمنلا قدحول 'نئكم' قداع لئكمي. اماظنلا اهتفضأ يتللالتال اخدإل ةل زإو.

4.2 تانوذأل تادادعإو AppArmor and

AppArmor is enabled by default. This means more security, but might prevent services from working if you run them in unexpected ways. If you encounter strange permission problems, try to switch the AppArmor profile for the affected service to complain mode with:

```
aa-complain /usr/bin/$your_service
```

ال يتلل ءايشأل ليجستو، ءيش لئب حامسلال: نئعي قرضتملا تامدخلال ىولئش عضو اهتفضأ.

Even if it helps, report it as a bug! We want to fix AppArmor profiles to also cover corner cases.

4.3 بي ايس

يحت (v4.2) س لني ل بي ايس ن م يل احل ا رادص إل ا ي ف ل ل خ دوج و ن ع ف ش ئي PulseAudio 4.0
رم أول ا رطس ن م بي ايس ل ي غ ش ت ب م ق ، ه ث ي د ح ت و بي ايس ح ا ل ص ا م ت ي :

```
PULSE_LATENCY_MSEC = 60 بي ايس
```

ع ج ل ، ق ل ع ل ا ه ذ ه ل و ح ت ا م و ل ع م ل ا ن م د ي ز م ل ل <http://arunraghavan.net/2013/08/pulseaudio-4-0-and-skype/> .

5 تاعون م

ر ف و ت م ر ي غ

6 More Information and Feedback

- Read the READMEs on the CDs.
- Get detailed changelog information about a particular package from the RPM:

```
rpm --changelog -qp <FILENAME>.rpm
```

<FILENAME>. is the name of the RPM.

- Check the ChangeLog file in the top level of the DVD for a chronological log of all changes made to the updated packages.
- Find more information in the docu directory on the DVD.
- <https://activedoc.opensuse.org/> contains additional or updated documentation.
- Visit <http://www.opensuse.org> for the latest product news from openSUSE.

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