

2019.04 Release notes

Hipster 2019.04 is here

We are glad to announce that Hipster 2019.04 snapshot is available.

Image	Checksum	GPG-signature
OI-hipster-gui-20190511.iso	[SHA256]	[SIG]
OI-hipster-gui-20190511.usb	[SHA256]	[SIG]
OI-hipster-text-20190511.iso	[SHA256]	[SIG]
OI-hipster-text-20190511.usb	[SHA256]	[SIG]
OI-hipster-minimal-20190511.iso	[SHA256]	[SIG]
OI-hipster-minimal-20190511.usb	[SHA256]	[SIG]

List of mirrors: <https://wiki.openindiana.org/oi/Mirrors>

Security

This release is signed and verifiable by GPG. The OpenIndiana Release Engineering key has key id [0x3a021afadbe31887](#).

The public key:

```

-----BEGIN PGP PUBLIC KEY BLOCK-----
mQINBFkHrmsBEADCHjWlmu/SgnV0nshQO6Ma+mQ6NNumGN6NdCTaWyfvjLgde17o
RBLLLVbt0+OpB3EW2Im+X6Zxnisq+V2LsFsamqGJXH84y0ubPxZH9y8O86CGBJPX
USsG9rldpLkBAKHtXDrDA4GyD5090Z9otH2RgBmjWTzEHqVBwrKEUUJkiWP0QUY
5kZ60suX3DtqdC3uCEg4NNTMCPLOY3WJr6X2eDJ6DjZYFz+SmjCD9X5rCzLQqmvW
bAD0839815pUSZa+YJn6chgSGwqtWcg62al3EXB+TaqLyoiwO2Xw1qlWfUitMc6Q
rTYD+K4gh/8Fiz7Mn7MUYzPUT+vHBGui2/MzQycXGRH3kK3j7/a/lSN2AmxYJWag
wSMTDiOl6f/eAk/E5mnuGzGzSQkDcMAYiJUDW98Zwy7y4zMLT2D2il6FalZkTYj
3ALdcewFSdzjSm7vJxG2uHRNh7vNcZyOZkYgvBoD4Ndb0vkj2LaO1lIUvTyVPeS4
sbyTUw38asw3jPU2A6hd9YMZypfd5YsIyQCDrWGuVCCl3lfb4dfCra+3wwyExDz0
3YGzfVvXsGSex1jvQQQ/xbATbDStBYj+JD16fH6mEJg0cEzp84rlTIOXCpksluFL
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LmhLz+wVUhsGZlq4ORRLCM4s/SLXohMuaWNdghGulEhIYrTq8jhj2Ph10ChFXo9S
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g/zZQq+04IelbSEXq+COZ0uFCjhdPZaPj1DXFXOKD5BJeOct9LnuDAg4Usenq1
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gniB5SaSc2pGdl3UNqSx+CcyS+/Jrn4LDnPHj3mx7WGLJLc/Lw0uYzXsZM3FAj7/
zrsLgnP4/xdcCMTcbVbC6L7VBSIE+hE6ppdrKwoLp7C2cyA14DnHM+heqx8DqtF6
acIc8txyUB7zShGC5Fhp37YnhrHGnUrDxxYi990fNChXAbwtR5z8Leicijplc/NF
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iiYm5AifwhU018Ia5A9kvBqymMy2bYSbZZVic+WXb6StWHugjKSFJmCo2h66QsI
giHNJEvOxybANlSkxI6t38EipGvvWldlROBuL/RZOQvSjL7SRlc10eQF4ZtPBMFy
yI5p3DBZbIHChdaH5OE0U7zk+qt1hv0+HSh8Yc1OVbd6pziAay5L6S8jsBKDPjJr
70TUuHJL00teBe3SORS8BACkg6+/6Yk9a3lSiQARAQABiQlBBGBCgAPBQJZB65r
AhsDBQkFo5qAAoJEDoCGvrb4xiHUqCP/iOUf55a2rU5N/tlZsn2fd+06U2V4Iym
YYysJ5OZJj0baDmL+SSmNarem+ogRcpBmKX3LFNgGnEorVaeILQApri5JelCSEhC
Ex5Xwk1WOqXTRWV9flbVU/rTSiCNDUySaaJDCVOQ07TEQ/bDShkr0X+MyCzklgbZ
rZnj+spaPeDnpIkfwfG2aKiJ0hq9KATBwdRECP9f/R7LaAdmcbR89Ya4iPEmaDYO
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47Gow54KIVS2cbeSVCP1Cj/B8GmEjkAsGmjDtGTk45LiJptv6h5lH95YGUafI97U
xLSEJJ+mablISRqDcn81VlfjvAp6Hv/DW9sr6lutQuzZjxhFi5rslylC40rkOni/
pByJDW47+VERp2wxvJdVVUZEGe53IHTgrruHs/tWUSJNEswkHQ70sY5u7bEcPULW
Stua8WJo5U4cN0abgrRAXnXXBWi2bNbyE8xnH+OsOghblgRg3N99G/TthozipQlI
cuYxZQalebJS
=fC+/
-----END PGP PUBLIC KEY BLOCK-----

```

How to verify:


- Download <ISO>.sig file from mirror
- Run: `gpg2 --verify <ISO>.sig <ISO>`. You should see the following output:

```

gpg: Signature made October 23, 2018 at 03:15:31 PM UTC using RSA key ID DBE31887
gpg: Good signature from "OpenIndiana Release Engineering" [unknown]
Primary key fingerprint: F5E9 84E5 ADD2 9578 D45C C1FE 3A02 1AFA DBE3 1887

```

- Even if the output includes:

 gpg: WARNING: This key is not certified with a trusted signature!
gpg: There is no indication that the signature belongs to the owner.

The signature is still correct.

General system changes

During this development cycle we've worked on fixing VirtualBox, updating Firefox and Mate.

Other noticeable changes include moving of some OI-specific applications from Python 2.7/GTK 2 to Python 3.5/GTK 3, merging updates from OmniOS CE IPS (including automatically named boot environments), rebuilding and fixing issues in libiconv conversion modules.

Late news (known issues)

Firefox can fail to spawn child processes on the first launch. After being restarted it runs fine.

In some scenarios Firefox hangs or crashes. In many cases enlarging the swap helps. In the example below we enlarge swap from 4 to 8 GB:

```
$ zfs get volsize rpool/swap
NAME          PROPERTY  VALUE  SOURCE
rpool/swap   volsize   4G     local
$ pfexec zfs set volsize=8g rpool/swap
$ pfexec reboot
```

Desktop software and libraries

- MATE 1.22 was integrated.
- Firefox was updated to 60 ESR
- VirtualBox 6.0 was integrated (including guest additions).
- Xorg fonts, tools and libraries were updated. xbacklight tool was added.
- Freetype was updated to 2.9.1, fontconfig was updated to 2.13.1.
- GTK+3 was updated to 3.24.8
- glib2 was updated to 2.58.3.
- LightDM was updated to 1.28

Common tools and libraries

- Updates for IPS were merged from OmniOS CE IPS, including automatically named boot environments (see [documentation](#) for details).
- Many utilities are now 64-bit-only.
- zsh, bash and pdsh shells were updated. zsh and bash syntax highlighting support was enhanced.
- GNU awk was updated to 5.0, GNU sed was updated to 4.7, GNU coreutils were updated to 8.31.
- vim was updated to 8.1.1002, nano was updated to 4.2.
- Ghostscript was updated to 9.26.
- rename tool was added.

Development tools and libraries

- GCC compilers were updated to 6.5, 7.4 and 8.3.0, binutils were updated to 2.32
- git was updated to 2.21.0.
- cmake was updated to 3.12.4.
- Python 3.5, 3.4 and 2.7 were updated to latest minor versions.
- rust was updated to 1.32.0.
- Python modules were updated.
- Bison was updated to 3.3.2
- Golang 1.11 was added
- PHP 7.3 was added. PHP 5.6 was removed.
- Several illumos-specific commands like `zfs`, `zpool`, `pkg`, `beadm`, `svcs`, and `svcadm` now have bash completions. To leverage them install the bash-completion package.
- gSOAP 2.8.83 was added
- zstd 1.3.8 was added.

Server software

- Apache 2.4 is 64-bit-only now
- OpenSSH was updated to 7.9p1.
- PostgreSQL 11 was added. PostgreSQL versions 9.4 thru 10 were updated to their latest minor versions. Citus extensions was added. Other PostgreSQL extensions were updated.
- MariaDB 10.1 was updated, MariaDB 10.3 was added. Percona Server 5.6 and 5.7 were updated. Berkeley DB was updated as well.
- MongoDB 3.4 and 4.0 were updated. MongoDB 3.3 was removed.
- Nginx was updated to 1.16.0.
- Samba was updated to 4.9.5.
- Node.js was updated to 12.2.0, 10.15.3, 8.16.0, 6.17.1.
- Ansible 2.7.5 was added.

A lot of other bug fixes and minor software updates are included.

illumos

As always, we are proud to ship the latest illumos-gate bits ([a547acf91a](#)).

Contributors

Following developers contributed to the 2019.04 snapshot with close to 500 commits. We very much appreciate their contributions:

- Alexander Pyhalov
- Andreas Grueninger
- Andreas Wacknitz
- Aurélien Larcher
- Gary Mills
- Ivan Maidanski
- Jason Martin
- Jean-Pierre André
- Jim Klimov
- Joshua M. Clulow
- Michal Nowak
- Nona Hansel
- Rouven Weiler
- Sebastian Wiedenroth
- Stephan Althaus
- Till Wegmüller
- Tim Mooney
- benf33