

# 2018.04 Release notes

## Hipster 2018.04 is here

We are glad to announce that Hipster 2018.04 snapshot is available.

Image	Checksum	GPG-signature
<a href="#">OI-hipster-gui-20180427.iso</a>	[SHA256]	[SIG]
<a href="#">OI-hipster-gui-20180427.usb</a>	[SHA256]	[SIG]
<a href="#">OI-hipster-text-20180427.iso</a>	[SHA256]	[SIG]
<a href="#">OI-hipster-text-20180427.usb</a>	[SHA256]	[SIG]
<a href="#">OI-hipster-minimal-20180427.iso</a>	[SHA256]	[SIG]
<a href="#">OI-hipster-minimal-20180427.usb</a>	[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-----
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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 28 April 2018 at 05:07:53 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

Userland software is rebuilt with GCC 6. As old GCC 4 runtime libraries are still delivered to `/usr/lib`, automatic checks and cleanup is applied to remove harmful `RUNPATHS` (`/usr/lib`, `/usr/lib/amd64` and so on) from binaries. `illumos-gate` is still compiled with patched GCC 4.4.

Kernel Page-Table Isolation (KPTI) was enabled to mitigate recent security issues in Intel CPUs (thanks to Joyent's Alex Wilson, John Levon, and Robert Mustacchi for their hard work on this).

GNOME 2 desktop was removed. A lot of applications were fixed not to depend on GNOME 2 libraries (including OpenIndiana-specific software like *Network Auto-Magic* GUI (`nwam-manager`), *Time Slider* and GUI installer).

Linked images support was enhanced to include *zoneproxy* support, so that `ipkg` zones without connection to Internet can update their software via global zone's proxy. Administration documentation is available in [zones section of OpenIndiana Handbook](#).

MATE desktop applications are now delivered as 64-bit-only.

UPower was integrated.

Internet/Intranet Input Method (IIIM) was removed (IBus is kept).

Work on delivering 64-bit-only applications continues.

Note, that although shipped ISO and USB images support booting in UEFI mode, it's still work in progress. VGA console is not supported when system is booted in UEFI mode and installer still misses some steps to create bootable UEFI images.

## Desktop software and libraries

- GNOME 2 was removed. Corresponding GNOME 3 applications were added where necessary (`totem`, `gnome-keyring`, `seahorse`, `vino` among others).
- `libunique`, `at-spi`, `libgnome-desktop` and Python GNOME bindings were removed. Dependent applications were ported to pure GTK2/GTK3. Removal of GNOME 2 libraries is still [in progress](#).
- Xorg server was updated to version 1.19.6, Xorg libraries and drivers were also updated as well.
- VirtualBox video driver compatible with Xorg 1.19 [is available](#).
- UPower 0.99.7 and MATE Power Manager were added. ConsoleKit patches to support Suspend/Hibernate D-Bus API were backported. LightDM and MATE applications were updated to work with the new ConsoleKit functionality.
- MATE was recompiled as 64-bit and applications updated to latest versions of 1.18 branch.
- Firefox was updated to 52.7.3
- VLC was updated to 2.2.8
- Thunderbird was updated to 52.7.0
- NVIDIA driver was updated to 340.106
- Gnumeric was updated to 1.12.39

Note that PulseAudio is now delivered as 64-bit application and as a consequence its configuration files are now incompatible with the previous version. If `pulseaudio` fails to start after the update, just remove `~/ .config/pulse` directory.

## Common tools and libraries

- `zsh` was updated to 5.4.2
- *Midnight Commander* was updated to 4.8.20
- `fish` was updated to 2.7.0

## Development tools and libraries

- GCC 6.4.0 is the default OpenIndiana [userland](#) compiler.
- GCC 7 was updated to 7.3.0
- Jenkins was updated to 2.89.4 (LTS) and 2.108
- OpenJDK 8 was updated to 1.8.162
- Erlang was updated to 19.3
- Mercurial was updated to 4.5.3
- `git` was updated to 2.16.2
- Memcached was updated to 1.4.37
- PHP versions were updated to 5.6.35 and 7.0.29

## Server software

- PostgreSQL versions 9.4 thru 10 were updated to their latest minor versions. PostgreSQL 9.3 was removed (9.4 is the default now).
- MariaDB 10.1, Percona Server 5.6 and 5.7 were updated to latest minor versions.
- CouchDB 2.1 was added.
- ISC Bind was updated to 9.10.6-P1
- ISC DHCP server was updated to 4.3.6-P1

- Squid was updated to 3.5.27
- nginx was updated to 1.14.0
- Apache HTTP 2.4 was updated to 2.4.33
- Samba was updated to 4.5.16
- Node.js was updated to 6.14.0 and 8.11.1

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

Several significant OpenIndiana userland changes were introduced. In resolve step pkgdepend resolve searches for dependencies only in `REQUIRED_PACKAGES` and packages, provided by current component. OpenIndiana userland automatic tooling now detects and removes standard library directories from `RUNPATH (/lib, /usr/lib, /lib/${MACH64}, /usr/lib/${MACH64})`. Component build bitness (i.e. whether to deliver 64-bit binaries in `/usr/bin`) now can be controlled by `PREFERRED_BITS` macros (64 or 32, defaults to 32).

It's worth noting that automated test tool/framework performs installation image generation and testing on a frequent basis.

As always, we are proud to ship the latest illumos-gate bits ([47b8d4b884](#)).