

Install VMWare Tools on FreeBSD 10

<http://moonlightsoft.blogspot.com/2016/04/freebsd-vmware-tools.html>

1. Если ваша *FreeBSD* является гостевой ОС на *VMware vSphere*, для удобства работы с ней и оптимизации быстродействия необходимо установить компонент *VMware Tools*. Делается это следующим образом:

1. В *vSphere Client* кликните правой кнопкой мыши на виртуальной машине с ОС *FreeBSD* и выберите: "*Guest-> Install/Upgrade VMware Tools*".



2. Далее переходим в каталог `/dev` и выполняем `ls`. Среди списка определяем *CD-ROM*, скорее всего это будет `cd0`.
3. Монтируем привод в директорию `/mnt`: `mount -t cd9660 -o -e /dev/cd0 /mnt`.
4. Проверим, что на диске есть файл `vmware-freebsd-tools.tar.gz`: `ls /mnt`.
5. Создадим папку для установочных файлов: `mkdir /usr/home/vmtools`.
6. Распакуем туда архив: `tar xzf /mnt/vmware-freebsd-tools.tar.gz -C /usr/home/vmtools/`.
7. Установочный диск больше не нужен, поэтому отмонтируем его: `umount /mnt`.
8. Переходим в каталог с инсталлятором *VMware Tools*: `cd /usr/home/vmtools/vmware-tools-distrib/`.
9. Затем начинаем установку командой: `perl ./vmware-install.real.pl`. Запустится мастер и задаст ряд вопросов, на которые можно отвечать по умолчанию, просто нажимая `Enter`. При отсутствии в системе интерпретатора языка *Perl* (`perl: Command not found.`) доустанавливаем его:

```
cd /usr/ports/lang/perl5.20 (или другую версию)
make install clean
rehash
perl -v (проверяем корректность инсталляции)
```

10. После установки запускаем конфигуратор: `perl /usr/local/bin/vmware-config-tools.pl`. Если видим сообщение `Please re-run this program after installing the compat6x-amd64 package.`, инсталлируем соответствующий пакет:

```
cd /usr/ports/misc/compat6x/
make install clean
rehash
```

Затем повторно выполняем: `perl /usr/local/bin/vmware-config-tools.pl` и проходим мастер конфигурации.

11. По завершению работы мастера удаляем директорию с распакованным дистрибутивом: `rm -r /usr/home/vmtools/` и отключаем диск с *VMware Tools* в *vSphere Client*: "*Guest-> End VMware Tools Install*".



На этом установка *VMware Tools* завершена.

Аналогом данной утилиты является *Open VM Tools* - разработка с открытым исходным кодом. Для установки перейдите в порты:

```
cd /usr/ports/emulators/open-vm-tools
make install clean
rehash
```

Перезагрузитесь и установка будет закончена.

Установка с помощью пакетного инсталлятора:

```
pkg install open-vm-tools
```

Или собираем все в одну строку

```
pkg install compat6x perl5 open-vm-tools
```

Перезагрузка.

VMware support for open-vm-tools (2073803)

<https://kb.vmware.com/s/article/2073803>

Symptoms

This article provides information about the benefits, contents, availability and VMware support for open-vm-tools.

Purpose

This article provides information about the benefits, contents, availability and VMware support for open-vm-tools.

Resolution

Benefits

The primary purpose for open-vm-tools is to enable operating system vendors and/or communities and virtual appliance vendors to bundle VMware Tools into their product releases. open-vm-tools is the open source implementation of VMware Tools and consists of a suite of virtualization utilities that improves the functionality, administration, and management of virtual machines within a VMware environment.

The benefits of bundling open-vm-tools are:

- End users get the best out-of-box experience to efficiently deploy virtual machines on VMware virtual infrastructure.
- Reduces operational expenses and virtual machine downtime, because updates to open-vm-tools packages are provided with operating system maintenance updates and patches. This eliminates separate maintenance cycles for VMware Tools updates.
- No compatibility matrix check is required for open-vm-tools. Adhering to the [VMware Compatibility Matrix](#) for the guest OS release is sufficient.
- open-vm-tools bundled with the operating system provides a compact footprint optimized for each OS release.

Note: To allow customization of Linux virtual machines with open-vm-tools version lower than 9.10, the deployPkg plug-in needs to be installed. For more information, see [Installing the deployPkg plug-in in a Linux virtual machine with Open VM Tools version lower than 9.10 \(2075048\)](#).

Contents

open-vm-tools consists of these packages:

- **open-vm-tools package**
This package contains the core open-vm-tools user-space programs and libraries, including `vmtoolsd`. These features are enabled by this package:
 - Synchronization of the guest OS clock with the virtualization platform
 - Enables the virtual infrastructure to perform graceful power operations (shut down) and file system quiescing of the virtual machine

- Provides a heartbeat from guest to the virtualization infrastructure to support vSphere High Availability (HA)
- Publishes information about the guest OS to the virtualization platform, including resource utilization and networking information
- Provides a secure and authenticated mechanism to perform various operations within the guest OS from the virtualization infrastructure
- Accepts additional plug-ins that can extend or customize open-vm-tools functionality
- **open-vm-tools-desktop package**
This optional package extends open-vm-tools with additional user-space programs and libraries to improve the interactive functionality of virtual machines. This package depends on X and therefore must be installed only when X is available. These features are enabled by this package:
 - Enables resizing of the guest display to match host console window or the VMware Remote Console Window for vSphere
 - Enables text copy and paste operation between host and guest UI (either direction)
 - Enables drag and drop operation between guest and host (either direction) for the VMware Workstation and VMware Fusion products (not supported on vSphere)
- **open-vm-tools-devel package**
This optional package extends open-vm-tools with additional user-space libraries for use in developing applications using `open-vm-tools`. The package contains:
 - Libraries for developing `vmttoolsd` plug-ins
 - Documentation for the libraries
- **open-vm-tools-debuginfo package**
This optional package contains additional binaries and source code for debugging open-vm-tools.

Availability

Source code for open-vm-tools can be found <https://github.com/vmware/open-vm-tools>

End users obtain open-vm-tools redistributed by operating system vendors and communities or within virtual appliances. Integration of open-vm-tools with operating system releases vary. The highest level of integration includes open-vm-tools on the OS media and is installed by default during OS installation. In other cases, open-vm-tools is included on the OS media but is not installed by default, unless specifically specified during installation. In addition, some operating systems provides open-vm-tools through the use of online repositories and can be installed using the operating system package manager following installation.

The list of operating systems with open-vm-tools can be found at <https://github.com/vmware/open-vm-tools/blob/master/README.md>.

For information specific to FreeBSD, see [VMware support for Open VM Tools on FreeBSD \(2149806\)](#).

VMware support policy

- VMware recommends using open-vm-tools redistributed by operating system vendors.
- VMware fully supports virtual machines that include OVT redistributed by operating system vendors, which is done in collaboration with the OS vendors. This is only applicable to the operating system releases that are published as certified by the specific VMware product in the online [VMware Compatibility Guide](#).
- VMware provides assistance to operating system vendors and communities with the integration of `open-vm-tools` for the new releases of the operating systems published as certified by the specific VMware product in the online [VMware Compatibility Guide](#).
- VMware supports virtual appliances built using standard supported GOSes that include open-vm-tools , which is done in collaboration with the virtual appliance vendor. Standard GOSes are the operating systems that are published as certified by the specific VMware product in the online [VMware Compatibility Guide](#). These GOSes are either directly provided by the OS vendors or are available for download in their original form. Please contact VMware if you are using a non-standard operating system and would like to get it certified for a specific VMware product.
- VMware does not recommend removing open-vm-tools redistributed by operating system vendors.

Frequently asked questions

- **How do I install open-vm-tools in an operating system?**

Follow installation guidance from the OS vendor for a specific release, For more information, see [Guest Operating System Installation Guide](#).

- **How do I update open-vm-tools?**

Updates of open-vm-tools are distributed with operating system updates and patches, as well as updates to virtual appliances.

- **I'm using an older operating system release that includes an older version of open-vm-tools. Is this a problem?**

If the operating system release is published as certified and supported by the specific VMware product in the online [VMware Compatibility Guide](#), the configuration is supported.

- **Do I need a specific version of open-vm-tools for a specific VMware product?**

No. Each version of open-vm-tools is compatible with multiple past and future versions of VMware products. Adhering to the compatibility matrix for the guest OS release is sufficient.

- **A virtual machine with open-vm-tools displays Guest managed or 3rdParty/unmanaged in vSphere Client. What does this mean?**

This means that vCenter Server cannot be used to install upgrades of open-vm-tools software in that virtual machine. Instead, you should manage the installation and update of open-vm-tools from within each guest operating system using the native package manager, such as yum or apt. You should expect to get updates of open-vm-tools in sync with the installation of updates and patches in the guest operating system or the virtual appliance.

The message **Guest managed** or **3rdParty/unmanaged** does not imply a support status for open-vm-tools or the guest operating system. The support status of operating system releases is published in the [VMware Compatibility Guide](#) and open-vm-tools distributed by OS vendor for use with certified operating system releases is fully supported by VMware.

Note: **3rdParty/unmanaged** does not change the support commitment by VMware on a specific environment, as long as OS-vendor supported open-vm-tools are used on an Operating System certified by VMware. For more information, see [VMware Compatibility Guide](#).

- **Why does the operating system not include open-vm-tools?**

Redistribution and integration of OVT is done by operating system vendors. Contact your OS vendor regarding the availability of `open-vm-tools`. If it is unavailable for your operating system, install VMware Tools distributed by VMware.

- **How often is open-vm-tools released?**

open-vm-tools is released several times a year. Subscribe to this mailing list for announcements:

<http://sourceforge.net/p/open-vm-tools/mailman/open-vm-tools-announce/>

- **As an operating system or virtual appliance developer, how do I obtain help with integration of open-vm-tools?**

Support for operating system developers is provided through the mailing lists at <http://sourceforge.net/p/open-vm-tools/mailman/open-vm-tools-devel/> or through the [VMware TAP Portal](#).

- **As an operating system or virtual appliance developer, how do I log bugs or feature requests?**

You can log bugs and feature requests through the github site at:

<https://github.com/vmware/open-vm-tools>