

# {BSDBootCamp}

## VirtualBox on FreeBSD



Bernhard Fröhlich  
decke@FreeBSD.org

Grazer Linxstage 2011  
BSDBootCamp

9. April, 2011

# Oracle VM VirtualBox

- ▶ x86 Virtualisierung
- ▶ Open Source (GPLv2)



{BSDBootCamp}

# Features

- ▶ Host: Windows, Linux, Solaris, MacOSX, FreeBSD
- ▶ Guest i386/amd64: ab Windows 3.1, Linux Kernel 2.4, NetWare, BSD, OS/2
- ▶ Guest multiprocessing (max. 32 vCPUs/Gast)
- ▶ USB device support
- ▶ Full ACPI support
- ▶ Multiscreen
- ▶ iSCSI, SCSI & SATA Controller (incl. AHCI)
- ▶ PXE Network boot
- ▶ Remote machine display (RDP, VNC)
- ▶ Plugins (=extpack)
- ▶ uvm.

# Installation

Port installieren:

```
$ cd /usr/ports/emulators/virtualbox-ose  
$ make install clean  
$ pw groupmod vboxusers -m yourusername
```

/boot/loader.conf

```
vboxdrv_load="YES"
```

/etc/rc.conf

```
vboxnet_enable="YES"
```

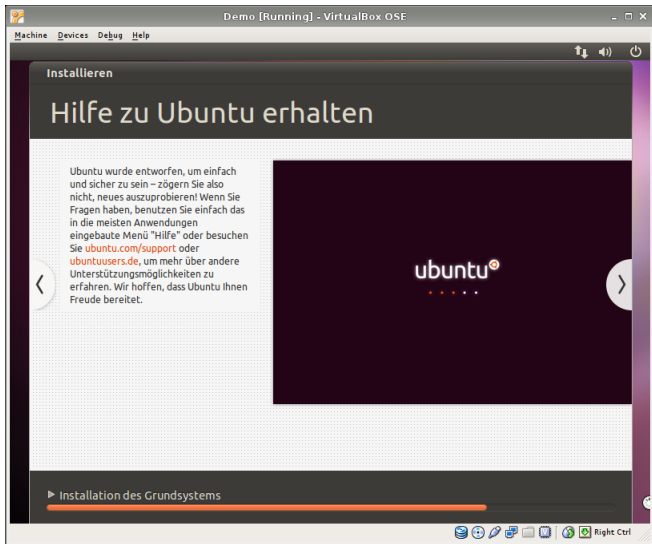
Dokumentation:

▶ <http://wiki.freebsd.org/VirtualBox>

▶ <http://www.virtualbox.org/manual/UserManual.html>

{BSDBootCamp}

# Gast Installation



Wieso Ubuntu? Weil sogar DAS funktioniert! {BSDBootCamp}

# phpvirtualbox

phpVirtualBox - VirtualBox Web Console - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost/

File Machine Help

New Settings Start Stop

Details Console Snapshots

**VirtualBox (127.0.0.1)**  
Hosting - 4.0.4\_OSE

**Demo**  
Powered Off

**FreeBSD-HEAD**  
Powered Off

**Meego**  
Powered Off

**Ubuntu 10.04**  
Running

**Windows**  
Powered Off

**General**  
Name: Ubuntu 10.04  
OS Type: Ubuntu

**System**  
Base Memory: 1024 MB  
Processor(s): 2  
Boot Order: CD/DVD, Hard Disk

**Display**  
Video Memory: 12 MB

**Storage**  
IDE Controller  
Primary Master: Ubuntu 10.04.vdi (Normal, 8 GB)

**Audio**

**Network**

**Serial Ports**

**USB**

**Shared Folders**

**Description**

**Preview**

{BSDBootCamp}

# Aktueller Status

- ▶ VirtualBox 4.0.x auf FreeBSD
- ▶ USB device support unter FreeBSD
- ▶ Auswirkungen der Oracle Übernahme

# Zukunft

- ▶ PCI Passthru
- ▶ VNC extpack
- ▶ VNC support in phpvirtualbox
- ▶ WDDM Treiber für Windows
- ▶ Haiku Guest Additions (BeOS clone)



# Vielen Dank für Ihre Aufmerksamkeit!

*Gibt es Fragen?*

Thanks to:

- ▶ Alexander Eichner (VirtualBox FreeBSD support)
- ▶ Beat Gätzi (FreeBSD port)
- ▶ Hans Petter Selasky (USB support)
- ▶ Ian Moore (phpvirtualbox)

[http://people.freebsd.org/~decke/talks/201104\\_glt11-bsdbootcamp\\_virtualbox.pdf](http://people.freebsd.org/~decke/talks/201104_glt11-bsdbootcamp_virtualbox.pdf)