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Installing an another OS with QEMU on Pardus

This document explains how to install and run QEMU with KVM support on Pardus.

Installation

Pardus->Programs->System->Konsole .

```
foto@turkuaz ~ $ sudo pisi it qemu kqemu
```

This command will install qemu and it's kernel-based virtualization module kqemu. Attention::

Statement: QEMU speed up module. This program is used only at non-profit usage, for other situations, you have to see the License files.

You must add kqemu module to /etc/modules.autoload.d/kernel-2.6 in order to install it at every startup.

```
foto@turkuaz ~ $ su
Password:
turkuaz foto # echo kqemu >> /etc/modules.autoload.d/kernel-2.6
turkuaz foto #
```

/etc/modules.autoload.d/kernel-2.6 file must like below;

```
# /etc/modules.autoload.d/kernel-2.6:  kernel modules to load when system boots.
#
# Note that this file is for 2.6 kernels.
#
# Add the names of modules that you'd like to load when the system
# starts into this file, one per line.  Comments begin with # and
# are ignored.  Read man modules.autoload for additional details.
# For example:
# 3c59x
kqemu
```

Note: If you do not want to load kqemu module every startup, you don't have to load it at /etc/modules.autoload.d/kernel-2.6. But this will guide you to load kqemu module every startup. You must enter the commands below to load the module if you did not load it into etc/modules.autoload.d/kernel-2.6

```
foto@turkuaz ~ $ su
Password:
turkuaz foto # modprobe kqemu
turkuaz foto #
```

Usage

Creating Virtual Disk

Create a virtual disk with the command below. You can change the size of the disk. This command will create a 5G sized disk.

```
foto@turkuaz ~ $ qemu-img create pardus.img 5G
Formating 'pardus.img', fmt=raw, size=5242880 kB
foto@turkuaz ~ $ ls

  pardus.img

foto@turkuaz ~ $
```

pardus.img is ready for a new OS.

Installation of a New OS

Insert the CD of the OS that you want to install. You have not to mount the device. Write the commands below.

```
foto@turkuaz ~ $ qemu -soundhw all -localtime -hda /home/foto/pardus.img -cdrom /dev/cdrom -boo
```

The command is that; It will install all sound drivers, will use local time, will use /home/foto/pardus.img for the disk usage, will use /dev/cdrom to use CDROM device and will boot the OS with CDROM.

The explanation of the argument in the command;

-hda argument gets the *.img

-cdrom argument gets the device which has the installation CD

-boot argument gets the boot device (a) floppy disk, (c) Harddisk, (d) CDROM

-localtime argument gets the local time usage

-m argument gets the size of the RAM which we will use with the new virtual OS

-soundhw arguments install the sound drivers

You may want to look http://www.qemu.org/qemu-doc.html for all of the arguments.

Another example (For fitting a monitor):

```
jnmbk@dell $ qemu -m 512 -soundhw all -localtime -hda pardus.img -cdrom /media/sda5/indirilen/p
```

Qemu has a feature to mount the ISO files to install an OS:

```
foto@turkuaz ~ $ qemu -soundhw all -localtime -hda /home/foto/pardus.img -cdrom /home/foto/parc
```

Note: You can use your mouse with clicking the Qemu window. In order to free your mouse, press Ctrl + Alt buttons at the same time. Use Ctrl + Alt + F to use full screen and use the same combination to exit from full screen.

```
change cdrom /dev/cdrom
```

Running The New Virtual OS

After the installation, eject the CD that is in you CDROM . Now, let's start our new and shiny virtual operating system.

```
foto@turkuaz ~ $ qemu -soundhw all -localtime -hda /home/foto/pardus.img
```

Yay!