**MIMIC II Virtual Machine (VM)**

**Why use a VM ?**

A virtual machine (VM) is an complete isolated operating system installation within a host operating system. The MIMIC II VM allows you to install a local copy of the relational MIMIC II Clinical Database. It also contains software needed to query the database in an encrypted partition. Using the MIMIC II VM does not change any of the software or data in the host system. The VM includes a SQL GUI interface (pgadmin) allowing users unlimited access to the data. Interactive setup requires only a few minutes, after which the automated download and installation process completes in about 1 day (this may vary depending on your network connection, CPU, and memory).

**Features\* and Requirements**

* Ubuntu 10.04 LTS (Lucid Lynx)
* PostgreSQL 8.4 RDBMS (Relational database management system)
* GUI interface to PostgreSQL (pgadmin3)
* Encrypted disk
* MIMIC II flat file download and installation scripts
* Hardware Settings: 4 GiB of RAM, 80 GiB of hard-drive space (dynamically allocated), and 4 CPUs

The recommended minimum requirements for the host system are:

* 4 Processors (@ 2 GHz)
* 4 GiB RAM or more
* 100 GiB of Hard Disk Space
* Broadband Connection (for initial installation)
* Latest version of Oracle VirtualBox software (for running the Virtual Machine)

\*The technical details on how the machine was generated and tested on a Linux system can be found [here](https://physionet.org/works/MIMICIIClinicalDatabase/files/virtual_machines/VM_2v6_Config_Commands.txt).

**Downloads**

* [VirtualBox](http://www.virtualbox.org/wiki/Downloads) software
* [MIMIC2\_VM\_v1.ovf](https://physionet.org/works/MIMICIIClinicalDatabase/files/virtual_machines/MIMIC2_VM_v1.ovf) (MIMIC II Virtual Machine, 4 kB )
* [MIMIC2\_VM\_v1-disk1.vmdk](https://physionet.org/works/MIMICIIClinicalDatabase/files/virtual_machines/MIMIC2_VM_v1-disk1.vmdk) (MIMIC II Virtual Machine Encrypted Hard Disk file, ~4 GiB compressed, expandable to 80 GiB )
* [MIMIC2\_VM\_README.txt](https://physionet.org/works/MIMICIIClinicalDatabase/files/virtual_machines/MIMIC2_VM_README.txt) (Database set-up instructions)

The VM is in [Open Virtualization Format](http://en.wikipedia.org/wiki/Open_Virtualization_Format) and should be usable with other virtualizers that support OVF, such as VMware. The VM has been tested with VirtualBox only.

It is not necessary to download the flat files with the VM. The scripts installed in the VM will download the flat files and generate a relational database. Please follow the instructions in[MIMIC2\_VM\_README.txt](https://physionet.org/works/MIMICIIClinicalDatabase/files/virtual_machines/MIMIC2_VM_README.txt).

**Starting the VM:**

1. Start the Oracle VM VirtualBox Manager
2. Choose File>Import Appliance and then click on "Choose..."
3. Select the downloaded MIMIC2\_VM\_v1.ovf file and click "Open"
4. Click "Next >" and verify the displayed settings. Increase the number of CPUs and/or quantity of RAM if possible
5. Click "Finish" to begin the import (This may take a little while)
6. Once the import is complete, start the VM by double clicking
7. When prompted for the encryption password, enter: 2CIMIM\_2v6.
8. Login and \*change\* the mimic2 user password (please note that the encryption password will not be changed). Use the following credentials for the mimic2 user login:
   * Username: mimic2
   * Password: 2CIMIM\_2v6