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## **Minimal (No GUI) CentOS Development Environment Preparation steps for Medyasoft PRODIGY**

* **Install Minimal CentOS 7**

<http://isoredirect.centos.org/centos/7/isos/x86_64/CentOS-7-x86_64-Minimal-1708.iso>

Note : For virtual environment support ip connectevity with host and internet

(VirtualBox : <https://serverfault.com/questions/225155/virtualbox-how-to-set-up-networking-so-both-host-and-guest-can-access-internet>)

* **Login as root and upgrade the OS**

$ yum upgrade

* **Login as root and install fundamental development tools.**

$ yum groupinstall 'Development Tools'

$ yum install cmake

$ yum install readline-devel

$ yum install openssl-devel

$ yum install git

$ yum install vim

$ yum install wget

* **Configure git**

$ git config --global user.name "Your Name"

$ git config --global user.email "you@example.com"

* **Stop Firewall**

$ systemctl disable firewalld

$ systemctl stop firewalld

* **Install SFTP & SAMBA & SSH Connectivity**

$ yum install vsftpd

<https://www.liquidweb.com/kb/how-to-install-and-configure-vsftpd-on-centos-7/>

$ yum install samba samba-client samba-common

<https://www.howtoforge.com/samba-server-installation-and-configuration-on-centos-7>

Connect via SSH & FTP from host (windows)

* **Create a postgres/postgres user/pwd**

$ useradd postgres

$ passwd postgres

-> postgres

$ usermod -g wheel postgres (add user to sudors goup)

* **download PostgresSQL sources && build.**

git://git.postgresql.org/git/postgresql.git (branch:)

$ mkdir postgresql

$ cd postgressql

$ git clone -b REL\_10\_STABLE git://git.postgresql.org/git/postgresql.git

* **Build, Lunch & install PostgreSQL**

<https://www.postgresql.org/docs/current/static/install-procedure.html>

$ mkdir build\_dir

$ cd build\_dir

$ ../configure [options go here]

$ make

$ sudo make install

-

* **Prepare PostgreSQL Server**

add to .bash\_profile

export LD\_LIBRARY\_PATH=/usr/local/pgsql/lib

export PATH=/usr/local/pgsql/bin:$PATH

$ sudo mkdir /usr/local/pgsql/data

$ sudo chown postgres /usr/local/pgsql/data

$ initdb -D /usr/local/pgsql/data --pwprompt

edit /usr/local/pgsql/data/postgresql.conf

listen\_addresses = '192.168.56.101' # (--> Server IP)

port = 5432

edit /usr/local/pgsql/data/pg\_hba.conf

host all all 192.168.56.0/24 trust

Start PostgreSQL Server

$ pg\_ctl -D /usr/local/pgsql/data -l /home/postgres/logfile start

Reload PostgreSQL server

$ pg\_ctl -D /usr/local/pgsql/data -l /home/postgres/logfile restart

or

$ pg\_ctl -D /usr/local/pgsql/data -l /home/postgres/logfile start

$ pg\_ctl -D /usr/local/pgsql/data -l /home/postgres/logfile stop

* **Clone & build sample skeleton Extension project**

$ git clone https://medyasoft\_prodigy@bitbucket.org/medyasoft/filikadb.git

$ cd filikadb/doc/dev/extension\_skeleton/base36/

$ make install

$ make installcheck # Unti Tests

* **Clone & build ORC source codes**

$ git clone -b branch-1.4 https://github.com/apache/orc.git

$ mkdir orc/build

$ cd orc/build

$ cmake .. -DBUILD\_JAVA=OFF

$ make package test-out

Useful examples are located in orc/tools/src/

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