

# Installing Canvas LMS on CentOS 5.8

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Part one of this tutorial we will go from a fresh installation of CentOS 5.8 and prepare the server for the Canvas LMS software.

1. Install Base CentOS 5.8 on a computer. I did not select any of the specific roles for this computer.
  1. Upon completion of the installation, perform **yum update** to get the latest updates for this version
2. Download the following files and place them within a directory of your choice. The directory I use for this is /root and not of why but I just do.
  1. Git: <http://git-core.googlecode.com/files/git-1.7.9.6.tar.gz>
  2. Ruby: <http://ftp.ruby-lang.org/pub/ruby/1.8/ruby-1.8.7-p357.tar.gz>
  3. RubyGems: <http://rubyforge.org/frs/download.php/75952/rubygems-1.8.21.tgz>
  4. SQLite: <http://www.sqlite.org/sqlite-autoconf-3071100.tar.gz>
3. Install the following packages
  1. Run command **yum install gcc zlib-devel mysql-devel httpd openssl-devel gcc-c++ curl-devel**
  2. Run command **yum install httpd-devel apr-util-devel libxml2-devel libxslt-devel postgresql-devel**
  3. Run command **yum install mod\_ssl**
4. Install EPEL Repository by issuing the following command
  1. Run command **rpm -ivh http://mirror.chpc.utah.edu/pub/epel/5/ {Either x86\_64 or i386} /epel-release-5.4.noarch.rpm**
  2. Run command **yum install libyaml libyaml-devel**
5. Install Git
  1. Run command **gunzip git-1.7.9.6.tar.gz ; tar xvf git-1.7.9.6.tar**
  2. Run command **cd git-1.7.9.6**
  3. Run command **./configure**
    1. A Period and a forward slash is before the word configure
  4. Run command **make**
  5. Run command **make test**
  6. Run command **make install**
6. Install Ruby
  1. Run command **gunzip ruby-1.8.7-p357.tar.gz ; tar xvf ruby-1.8.7-p357.tar**
  2. Run command **cd ruby-1.8.7-p357**
  3. Run command **./configure**
    1. A period and a forward slash is before the word configure
  4. Run command **make**
  5. Run command **make test**
  6. Run command **make install**

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## 7. Install RubyGems

1. Run command **gunzip rubygems-1.8.21.tgz ; tar xvf rubygems-1.8.21.tar**
2. Run command **cd rubygems-1.8.21**
3. Run command **ruby ./setup.rb**
  1. A period and a forward slash is before the work setup.rb

## 8. Install SQLite

1. Run command **gunzip sqlite-autoconf-3071100.tar.gz ; tar xvf sqlite-autoconf-3071100.tar**
2. Run command **./configure**
  1. A period and a forward slash is before the work configure
3. Run command **make**
4. Run command **make install**

## 9. Install Rails

1. Run command **gem install rails**

## 10. Install Passenger

1. Run command **gem install passenger**
2. Run command **passenger-install-apache2-module**
  1. Follow the prompts on the screen. If it says a package is missing you would need to resolve this before running the command again.
3. Modify your apache2 httpd.conf file and add the following lines which the output of the passenger-install-apache2-module will explain. Copy those lines exact as written from your output.
  1. `LoadModule passenger_module /usr/local/lib/ruby/gems/1.9.1/gems/passenger-3.0.12/ext/apache2/mod_passenger.so`
  2. `PassengerRoot /usr/local/lib/ruby/gems/1.9.1/gems/passenger-3.0.12`
  3. `PassengerRuby /usr/local/bin/ruby`