Install Redmine on Centos 6.5 - 64 bit

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Origin source from : DesignNetwork.org

The System Requirements

During the installation process we will use the Centos 6.5 - 64 bit OS, the original hardware configuration should not require high you can install on a normal PC or a virtual machine using VMWare, VirtualBox.

For the CentOS operating system, you can downloading at URL address :

http://centos.org/download

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Before downloading, the CentOS team would like to remind you that the primary means of sustaining the development of CentOS is via contributions by users such as yourself. CentOS is now and will continue to be totally free; however, it takes money and resources to make CentOS available. If you are able, please consider

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Selecting a 64-bit version called "CentOS-6.5-x86_64-bin-DVD1.iso", after you download and install on the computer or on a virtual machine, the installation process is simple for anyone with basic computer skills.

Although this guiding document install on the Centos 6.5 operating system, but you can use any version of Centos 6.x for both 32 bit and 64 bit.

When the installation process is complete, you need the tools to connect with the Centos server via FTP and SSH protocols, you must to install FileZilla at the URL address :

https://filezilla-project.org/download.php

Next, we need to install Putty to communicate with Linux via SSH.

Download the installation package Putty for Windows at the following address :

http://www.putty.org/

might be.

To prepare for the next section, you need to set up a connection using Putty SSH to Server running Centos, enter the IP address of the computer running Centos (probably IP on the dedicated server, on the virtual machines, on the your LAN or PC).

8	PuTTY Configuration	? ×
Category: 	Basic options for your PuTTY s Specify the destination you want to conn Host Name (or IP address) 192.168.1.107 Connection type: Raw Telnet Rlogin SS Load, save or delete a stored session Saved Sessions Default Settings AtlanticCloud PiServer Close window on exit: Always Never Only on o	ession ect to Port 22 H O Serial Load Save Delete
About Help	Open	Cancel

After setting up SSH connection successful, we will move on to step installing the system.

B	root@localho	ost:~	-	×
[root@localhost	~]# ls			^
anaconda-ks.cfg	Downloads			
Desktop	install.log			
[root@localhost	~1#			
[100000100001110D0	_ " _			
				\mathbf{v}

Update the System

For convenience in the next section, we follow the way :

- Select and copy command (CTRL + C)
- Right-click into the Putty window to Paste command and press Enter to execute

Copy and execute the following command to update the critical components of the system :



ß		root@localhost:~		- 🗆 🗙
				Size ^
Updating:		0 4 21 21 5 1	undatag	2 0 M
coreutils-libs	x86_64 x86_64	8.4-31.e16_5.1	updates	3.0 M
firefox	x86_64	24.4.0-1.el6.centos	updates	47 M
glib2	x86_64	2.26.1-7.el6 5	updates	1.6 M
kpartx	x86 ⁻ 64	0.4.9-72.el6_5.1	updates	58 k
tzdata	noarch	2014a-1.el6	updates	448 k
udisks	x86_64	1.0.1-7.el6_5	updates	168 k
upstart	x86_64	0.6.5-13.el6_5.3	updates	177 k
Transaction Summa	ry			
Upgrade 8 F	ackage(s)			
Total download si Is this ok [y/N]: Downloading Packa	ze: 53 M y ges:			
(1/8): coreutil (5%) 89% [====] 355 kB/s 2.7	MB 00:	:00 ETA 🗸

After the update completed, we need to restart the system using the following command :

reboot

Install the dependencies packages

These are the basic software packages for environment settings and utility tools to compile other packages in the next section.

Copy the block command and execute in the Putty Windows :

This is a long command line, copy all and implementation.

ibyaml-devel zlib-devel curl-devel openssl-devel httpd-devel apr-devel apr-util-devel mysql-devel gcc ruby-devel gcc-c++ make postgresql-devel ImageM

P root@localhost:~	- 🗆 🗙
Transaction Summary	^
Install 81 Package(s)	
Total download size: 38 M Installed size: 126 M	
Downloading Packages: (1/81): TmageMagick-6 5 4 7-7 el6 5 x86 1 7 M	P 00.02
(2/81): ImageMagick-devel-6.5.4.7-7.el6_ 86 ki	B 00:02
(3/81): OpenEXR-libs-1.6.1-8.1.el6.x86_6 197 kl (4/81): apr-devel-1.3.9-5.el6 2.x86 64.r 176 kl	B 00:00 B 00:00
(5/81): apr-util-devel-1.3.9-3.el6_0.1.x 69 k	B 00:00
(6/81): autoconf-2.63-5.1.e16.noarch.rpm 781 kl (7/81): automake-1.11.1-4.e16.noarch.rpm 550 kl	B 00:01 B 00:00
(8/81): bzip2-devel-1.0.5-7.el6_0.x86_64 250 kl	B 00:00
(10/81): cyrus-sasl-devel-2.1.23-13.el6_ 302 ki	B 00:00
(11/81): db4-cxx-4.7.25-18.el6_4.x86_64. 588 km (12/81): db4-d (16%) 25% [=] 496 kB/s 1.6 Mm	B 00:00 B 00:10 ETA 🗸

Install Apache and MySQL

Apache is a server application for communicating over the HTTP protocol. Apache runs on operating systems such as Unix, Linux, Microsoft Windows, and other operating systems.

Apache play an important role in the development of the internet and the world wide web.

MySQL is the database management free open source most popular on the world, MySQL has high speed, stability and ease of use, portability, operating on multiple operating systems offer a large system is very powerful utility functions.

With the speed and high security, MySQL is well suited for applications that access databases on the internet.

Use the following command to install :

yum -y install httpd mysql mysql-server

ß		root@localhost:~		- • ×
Dependencies Res	olved			^
Package	Arch	Version	Repository	Size
Installing:				
mysql-server Installing for de	x86_64 ependencies	5.1.73-3.el6_5	updates	8.6 M
perl-DBD-MySQL	x86_64	4.013-3.el6	base	134 k
peri-DBI	X86_64	1.609-4.016	base	705 K
Transaction Summa	ary 			
Install 3	Package(s)			
Total download si Installed size: 2 Downloading Packa (1/3): mysql-s (2 Now start services when OS bo	ize: 9.4 M 27 M ages: 79%) 87% [=	==] 739 kB/s 7.	5 MB 00:	01 ETA 🗸
chkconfig httpd on chkconfig my sql d on service httpd start service my sql d start				
et the password for My SQL				
/usr/bin/my sql _secure_insta	llation			
ecause we not have a passwor	rd for the root accou	nt so you press Enter to skip.		
Enter current password for	root (enter for no	ne):		
elect Yes to set the password f	or the My SQL root a	account.		
Set root password? [Y/n] y				
nter and confirm your passwo	rd, remove the anor	nymous user, select Yes		
Remove anonymous users? [Y/	n] y			
llow remote login to My SQL as	root account, select	t No.		
Disallow root login remotel	y? [Y/n] n			
elete the test database, select	Yes			
Remove test database and ac	cess to it? [Y/n]	У		
eload privilege tables, select Ye	25			
Reload privilege tables now	? [Y/n] y			
	/			
ELinux is a security feature ad	lvanced for Linux on	erating system, when installing th	he system vou need to	turn off this fea
fter successful you can turn or	n back if you want.	,, ,	, - ,	

nano /etc/selinux/config

SELINUX=disabled



Set up the Hostname

By default when installing a new OS Centos not set the hostname, so we need to setting with the command :

nano /etc/hosts				
₽		root@localhost:/va	ar/www	- 🗆 🗙
GNU nano	2.0.9	File: /etc/h	iosts	Modified ^
107 0 0 1	troup domain	asm less lbest	lesslbest less	Idemain local(
::1	your_domain vour domain	.com localhost	localhost.loca	ldomain local\$
	1			
AC Cot Hol	^∩ WriteOu∧R	Read Firv Prot	Da <mark>AK</mark> Cut ToyA	C Cur Pos
∧X Exit	^J Justify^W	Where I ^{^V} Next	: Pa <mark>^U</mark> UnCut T <mark>^</mark>	T To Spell

Add your domain name or host name that you set on both the command line, save the file and exit, the server name will be changed when restarting.

Configuring the Firewall

We do not want to turn off the firewall because it's quite important, so you need to add rules to allow port 80 for HTTP and port 443 for HTTPS.

nano /etc/sysconfig/iptables



Press Enter to create a new line after the line of port 22, copy the following two commands and right click on the window to the Paste command.

-A INPUT -m state --state NEW -m tcp -p tcp --dport 80 -j ACCEPT -A INPUT -m state --state NEW -m tcp -p tcp --dport 443 -j ACCEPT

Press CTRL + O to save the file and press CTRL + X to exit.

The same applies for IP6 firewall :

nano /etc/sysconfig/ip6tables

Add these lines to the file.

```
-A INPUT -m state --state NEW -m tcp -p tcp --dport 80 -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 443 -j ACCEPT
```

After you finish editing both files, run the commands to apply the new rules for firewall.

/etc/init.d/iptables restart
/etc/init.d/ip6tables restart

Allow turn on the firewall when reboot the operating system.

chkconfig iptables on chkconfig ip6tables on

Finally, we need to restart the system to apply the changes to the SELinux and Hostname.

reboot

Install PHP and phpMyAdmin

Because we use MySQL database management system, so we need to install phpMyAdmin program management.

phpMyAdmin is a free open source tool written by PHP language to manage MySQL database via a web browser.

It can create, modify or delete databases, tables, fields or records, perform SQL statements, or managing users and permissions.

The command to install PHP and the packages :

yum -y install php php-mysql php-gd php-imap php-ldap php-mbstring php-odbc php-pear php-xml php-xmlrpc php-pecl-apc php-soap



₽	root@localhost:~	- 🗆 🗙
(4/18):	php-cli-5.3.3-27.el6_5.x86_64.rpm 2.2 MB 00:0	02 ^
(5/18):	php-common-5.3.3-27.el6_5.x86_64.r 525 kB 00:	00
(6/18):	php-gd-5.3.3-27.el6_5.x86_64.rpm 107 kB 00:0	00
(7/18):	php-imap-5.3.3-27.el6_5.x86_64.rpm 51 kB 00:0	00
(8/18):	php-Idap-5.3.3-2/.e16_5.x86_64.rpm 38 KB 00:0	00
(9/10):	$pnp-muscling-5.3.3-27.e16_5.x86_64$ r 81 kB 00:0	00
(10/10) (11/18)	$p_{1}p_{1}y_{2}q_{1}-3.3.3-27.e16 = 5.866 = 04.1 01 kB = 00.0 01.1 k$	00
(12/18)	php = pdp = 5.3.3 - 27.e16 - 5.x86 - 64.rpm 75 kB = 00:0	00
(13/18)	: php-pear-1.9.4-4.el6.noarch.rpm 393 kB 00:0	00
(14/18)	: php-pecl-apc-3.1.9-2.el6.x86 64.r 96 kB 00:0	00
(15/18)	: php-soap-5.3.3-27.el6_5.x86_64.rp 140 kB 00:0	00
(16/18)	: php-xml-5.3.3-27.el6_5.x86_64.rpm 103 kB 00:0	00
(17/18)	: php-xmlrpc-5.3.3-27.el6_5.x86_64. 53 kB 00:0	00
(18/18)	: unixODBC-2.2.14-12.el6_3.x86_64.r 378 kB 00:0	00
Total	589 kB/s 6.3 MB 00:	11
Running	rpm_check_debug	
Running	Transaction Test	
		× .
estarting the	Apache service :	
service http	d restart	
and install php	Myadmin :	
rpmimport yum install yum -y insta	http://dag.wieers.com/rpm/packages/RPM-GPG-KEY.dag.txt http://pkgs.repoforge.org/rpmforge-release/rpmforge-release-0.5.3-1.el6.rf.x86_64.rpm ll phpmyadmin	
ß	root@localhost:~	- 🗆 🗙
Install	1 Package(s)	<u>^</u>
Total s	ize: 13 k	
Install	ed size: 13 k	
Downloa Downloa	ding Packages:	
Running	Transaction Tost	
Transas	tion Test Succeeded	
Running	Transaction	
Insta	lling : rpmforge-release-0.5.3-1.el6.rf.x86 64	1/1
Verif	ving : rpmforge-release-0.5.3-1.el6.rf.x86 64	1/1
Install	ed:	
rpmfo	rge-release.x86_64 0:0.5.3-1.el6.rf	
Complet	e!	
[root@l	ocalhost ~]# yum -y install phpmyadmin	
Loaded]	plugins: fastestmirror, refresh-packagekit, security	
Loading	mirror speeds from cached hostfile	
		~

Editing the virtual host file to allow remote login to the phpMyadmin.



Replace text :

\$cfg['Servers'][\$i]['auth_type'] = 'cookie';

\$cfg['Servers'][\$i]['auth_type'] = 'http';

Save the file and exit, restarting the Apache service :

service httpd restart

After successfully installed phpMyadmin, you can check at the address :

http://your-domain/phpmyadmin

Login with account : root / your_password

With Password has been set at step install MySQL database in the above.



Note: If you install the Redmine system on the PC or in a virtual machine which not on the dedicated server, we need to switch the application phpMyadmin to run on port 8080 because port 80 will be used for Redmine in the next steps.

We need add a port 8080 to the firewall and change the VirtualHost for phpMyadmin.

nano /etc/sysconfig/iptables

Proot@localhost:~ ×
GNU nano 2.0.9 File: /etc/sysconfig/iptables ^
Firewall configuration written by system-config-firewall # Manual customization of this file is not recommended. *filter
:INPUT ACCEPT [0:0]
:FORWARD ACCEPT [0:0]
OUTPUT ACCEPT [U:U]
-A INPUT -M StateState ESTABLISHED, RELATED - J ACCEPT
-A INPUT -i lo -i ACCEPT
-A INPUT -m statestate NEW -m tcp -p tcpdport 22 -i ACCEPT
-A INPUT -m statestate NEW -m tcp -p tcpdport 80 -i ACCEPT
-A INPUT -m state state NEW -m tcp -p tcp dport 443 -i ACCEPT
-A INPUT -m statestate NEW -m tcp -p tcpdport 8080 -j ACCES
-A INPUT -j REJECTreject-with icmp-host-prohibited
-A FORWARD -j REJECTreject-with icmp-host-prohibited
[Read 16 lines]
<mark>^G</mark> Get Hel <mark>^O</mark> WriteOu <mark>^R</mark> Read Fi <mark>^Y</mark> Prev Pa <mark>^K</mark> Cut Tex <mark>^C</mark> Cur Pos
<mark>^X</mark> Exit <mark>^J</mark> Justify <mark>^₩</mark> Where I <mark>^V</mark> Next Pa <mark>^U</mark> UnCut T <mark>^T</mark> To Spell 🛛 🗸

Add the command line :

-A INPUT -m state --state NEW -m tcp -p tcp --dport 8080 -j ACCEPT

nano /etc/sysconfig/ip6tables

Add the command line :

-A INPUT -m state --state NEW -m tcp -p tcp --dport 8080 -j ACCEPT

Restarting firewall service to allow the new port.

/etc/init.d/iptables restart
/etc/init.d/ip6tables restart

Editing the VirtualHost file to run phpMyadmin on the port 8080

nano /etc/httpd/conf/httpd.conf



Dynamic Shared Object (DSO) Support

To be able to use the functionality of a module which was buil\$ # have to place corresponding `LoadModule' lines at this locatio\$ # directives contained in it are actually available _before_ the\$ ^G Get Hel^O WriteOu^R Read Fi^Y Prev Pa^K Cut Tex^C Cur Pos

Next

Pa

UnCut 1

To Spell

Where

Exit

Listen 8080

Save the file and exit, restarting the Apache service :

Justify

service httpd restart

 ← → C ↑ 192.168.1.107:8080/index.php ☆ ♥ 100.0101 ☆ ♥ 100.0101	A 192.168.1.107:8080 / local ×		-	
Image: Select a database Image: Select a dat	← → C 🖬 🗋 192.168	3.1.107:8080/index.php		☆ =
	 C A 192.168 phpMyAdmin M B 0 0 0 information_schema (28) mysql (23) redmine_db (51) Please select a database 	3.1.107:8080/index.php Iocalhost Image: Server version: 5.1.73 Protocol version: 10 Server: Localhost via UNIX socket User: root@localhost Image: MySQL charset: UTF-8 Unicode (utf8) Image: MySQL connection collation: utf8_unicode_ci Image: Collation Image: Collation Image: Collation Image: Show MySQL system variables (mage: Show MySQL system variables (mage: Storage Engines) Image: Collation image: Storage Engines Image: Reload privileges (mage: Storage Engines)	by b	

Now, phpMyadmin will run on the port 8080 at the address :

http://your-domain:8080

Install Ruby

Ruby is a object-oriented programming language, capable of reflection. Syntax inherited from Ada and Perl with object-oriented features of Smalltalk, and also share some features with Python, Lisp, Dylan and CLU, Ruby is a single phase interpreter.

Ruby provides programming patterns, including functional programming, object-oriented, imperative, reflective, it uses dynamic variable and automatic memory management.

Install Ruby interpreter with version management program RVM.

\curl -L 🗇 https://get.rvm.io | bash

After successful, we will launch RVM

source /etc/profile.d/rvm.sh

The following command will list the versions of Ruby to install :

rvm list known

ß	root@localhost:~	-	
<pre>[root@localhost ~]#</pre>	source /etc/profile.d/rvm.sh		^
<pre>[root@localhost ~]#</pre>	rvm list known		
# MRI Rubies			
[ruby-]1.8.6[-p420]			
[ruby-]1.8.7[-p374]			
[ruby-]1.9.1[-p431]			
[ruby-]1.9.2[-p320]			
[ruby-]1.9.3[-p545]			
[ruby-]2.0.0-p353			

[ruby-]2.0.0[-p451]	
[ruby-]2.1[.1]	
[ruby-]2.1-head	
ruby-head	
# GoRuby	
goruby	
# Topaz	
topaz	
	\sim

We choose the stable version [ruby-] 1.9.3 [-p545], and execute the following command :

rvm install 1.9.3

₽					root@	localhost:~				×
98	9802k	98	9654k	0	0	17863	0	0:09:21	0:09:13	0 ^
98	9802k	98	9677k	0	0	17869	0	0:09:21	0:09:14	0
98	9802k	98	9699k	0	0	17881	0	0:09:21	0:09:15	0
99	9802k	99	9733k	0	0	17906	0	0:09:20	0:09:16	0
99	9802k	99	9755k	0	0	17907	0	0:09:20	0:09:17	0
99	9802k	99	9773k	0	0	17913	0	0:09:20	0:09:18	0
99	9802k	99	9787k	0	0	17905	0	0:09:20	0:09:19	0
99	9802k	99	9801k	0	0	17890	0	0:09:21	0:09:21	
100	9802k	100	9802k	0	0	17883	0	0:09:21	0:09:21	
:	152	01								
ruby	7-1.9.3	-p545	5 – # ex	tractin	g ru	by-1.9.3	3-p545	to /usr/l	ocal/rvm,	/sr
c/ri	iby-1.9	.3-p5	545.			-				
ruby	ruby-1.9.3-p545 - #applying patch /usr/local/rvm/patches/ruby/GH-4									
88.	batch.									
ruby	ruby-1.9.3-p545 - #applying patch /usr/local/rvm/patches/ruby/ssl									
no ec2m.patch.										
ruby-1.9.3-p545 - #configuring										
ruby-1.9.3-p545 - #post-configuration.										
ruby	ruby-1.9.3-p545 - #compiling/									

The installation process is pretty long time, but you do not need any intervention, after successful, you check with the following command :

ruby -v

Install Rubygems

Rubygems is a Ruby's packages management program, very popular in applications written by Ruby language and the Ruby On Rails framework.

yum -y install rubygems

root@localhost:~	- 🗆 🗙
Install 4 Package(s)	^
Total download size: 1.4 M Installed size: 4.8 M Downloading Packages: (1/4): ruby-1.8.7.352-13.el6.x86_64.rpm 534 kB (2/4): ruby-irb-1.8.7.352-13.el6.x86_64.rp 314 kB (3/4): ruby-rdoc-1.8.7.352-13.el6.x86_64.r 377 kB (4/4): rubygems-1.3.7-5.el6.noarch.rpm 207 kB	00:00 00:00 00:00 00:00
Total 532 kB/s 1.4 MB Running rpm_check_debug Running Transaction Test Transaction Test Succeeded Running Transaction	00:02
Installing : ruby-1.8.7.352-13.el6.x86_64	1/4
Installing : ruby-rdoc-1.8.7.352-13.e16.x86_64 Installing : rubygems-1.3.7-5.e16.noarch	2/4 3/4 4/4

Install Passenger

The full name of the Passenger is Phusion Passenger, known as mod_rails or mod_rack, it is a web application intergrate with Apache and it can operate as a standalone web server support for the Ruby On Rails applications.

Execute the following commands :

gem install passenger
passenger-install-apache2-module



After completed, we copy a notification block in the window to create the configuration file in the next steps (select block notification and press C to copy).

LoadModule passenger_module /usr/local/rvm/gems/ruby-1.9.3-p545/gems/passenger-4.0.37/buildout/apache2/mod_passenger.so
<IfModule mod_passenger.c>
PassengerRoot /usr/local/rvm/gems/ruby-1.9.3-p545/gems/passenger-4.0.37
PassengerDefaultRuby /usr/local/rvm/gems/ruby-1.9.3-p545/wrappers/ruby
</IfModule>

Create a new virtual host file for Passenger :

nano /etc/httpd/conf.d/passenger.conf

Paste the command blocks into the empty file and save it, then restart the Apache service.

service httpd restart

Create Database for Redmine

Use MySQLAdmin to create an empty database for Redmine, saved password to fill in the configuration file in the next steps.

```
mysql --user=root --password=root_password_mysql
create database redmine_db character set utf8;
create user 'redmine_admin'@'localhost' identified by 'your_new_password';
grant all privileges on redmine_db.* to 'redmine_admin'@'localhost';
quit;
```



<pre>mysql> create user 'redmine admin'@'localhost' identified by '</pre>
Query OK, 0 rows affected (0.00 sec)
were all maintile and an analysing dist to landwing admin(0).
mysqi> grant all privileges on reamine_ab.* to 'reamine_aamin'@'lo
Ouery OK. 0 rows affected $(0,00 \text{ sec})$
gaery only o rowb arrested (oros bee)
mysql> quit;

Install Redmine

Redmine is a main program of the project management system, we will download and install the program from the website of Redmine.

Download Redmine version 2.5.x to directory "/var/www" on the Centos OS.

cd /var/www
wget http://www.redmine.org/releases/redmine-2.5.0.tar.gz

Extract the folder and rename directory

```
tar xvfz redmine-2.5.0.tar.gz
mv redmine-2.5.0 redmine
rm -rf redmine-2.5.0.tar.gz
```

Configuring the Database

The next, we need to configure the database was created from the above steps.



Enter name for database, enter username and password of the database. Press CTRL + O to save the file and CTRL + X to exit.

Setting up Rails

Install the package library support for Rails using the Bundle.

cd /var/www/redmine
gem install bundler
bundle install
rake generate_secret_token

root@localhost:/var/www/redmine	-	×
1 gem installed		^
<pre>[root@localhost redmine]# bundle install</pre>		
Fetching gem metadata from https://rubygems.org/		
Fetching additional metadata from https://rubygems.org/		
Resolving dependencies		
Installing rake (10.1.1)		
Installing i18n (0.6.9)		
Installing multi_json (1.9.0)		
Installing activesupport (3.2.17)		
Installing builder (3.0.0)		
Installing activemodel (3.2.17)		
Installing erubis (2.7.0)		

```
Installing journey (1.0.4)
Installing rack (1.4.5)
Installing rack-cache (1.2)
Installing rack-test (0.6.2)
Installing hike (1.2.3)
Installing tilt (1.4.1)
Installing sprockets (2.2.2)
```

The next, we create the database table for the Redmine application.

RAILS_ENV=production rake db:migrate RAILS_ENV=production rake redmine:load_default_data

Activate FCGI

cd /var/www/redmine/public

Setting up Apache and FastCGI

cd /var/www/
rpm --import https://fedoraproject.org/static/0608B895.txt
wget http://dl.fedoraproject.org/pub/epel/6/x86_64/epel-release-6-8.noarch.rpm
rpm -ivh epel-release-6-8.noarch.rpm
yum -y install mod_fcgid
rm -rf epel-release-6-8.noarch.rpm

Creating Files Directory

This directory contains data files generated during the operation of Redmine as document or image file, we create a new directory in the "/opt".

mkdir -p /opt/redmine/files chown -R apache:apache /opt/redmine cd /var/www/redmine/config cp configuration.yml.example configuration.yml nano configuration.yml

P	root@localhost:/var/www 🗕 🗆 🗙						
	GNU nano 2.0.9 File:mine/config/configuration.yml ^						
#	password: "redmine"						
	<pre># Absolute path to the directory where attachments are stored. # The default is the 'files' directory in your Redmine instance. # Your Redmine instance needs to have write permission on this # directory. # Examples: # attachments_storage_path: /var/redmine/files # attachments_storage_path: D:/redmine/files # attachments_storage_path: D:/redmine/files</pre>						
	<pre>attachments_storage_path: /opt/redmine/files</pre>						
<pre># Configuration of the autologin cookie. # autologin_cookie_name: the name of the cookie (default: autol\$ # autologin_cookie_path: the cookie path (default: /) [Read 212 lines]</pre>							
^0 ^2	Get Help^O WriteOut^R Read FiloY Prev Pag^K Cut Text <mark>^C</mark> Cur Pos Exit <mark>^J</mark> Justify <mark>^W</mark> Where Is <mark>^V</mark> Next Pag <mark>^U</mark> UnCut Te <mark>^T</mark> To Spell v						

Enter the directory path containing the data files you just created in the previous step into the line "attachments_storage_path".

Note: You must add a space at the begin of the path "/opt/redmine/files" after character ":"

Configuring Email

Another very important function of Redmine is using email to notify members when the contents of each project changes, Redmine can use many different methods to send email that is Sendmail, SMTP, GMail ...

To configure the email we will edit the configuration file.

nano /var/www/redmine/config/configuration.yml

The simplest is you use features of the default SendMail in the Centos OS by settings :

email_delivery: delivery_method: :sendmail

Note : Do not use the Tab key to indent when editing the configuration file, you need to use the space bar on the keyboard.

If you use GMail's SMTP, you need to register an email account with the login methods used password normal and disable two-step authentication by smart phone.

Enter your Gmail account as below :

```
email_delivery:
    delivery_method: :smtp
    smtp_settings:
        enable_starttls_auto: true
        address: "smtp.gmail.com"
        port: 587
        domain: "smtp.gmail.com"
        authentication: :plain
        user_name: "your_email@gmail.com"
        password: "your_password"
```

Save the file configuration and exit.

Create Virtual Host for Redmine

Create an Apache configuration file for the Redmine application at the port 80.

nano /etc/httpd/conf.d/redmine.conf

Copy the text below and paste into the editor window, note the information to change your domain name.

<virtualhost< th=""><th>*:80></th></virtualhost<>	*:80>
Serv	erName your domain
Serv	erAdmin your domain@domain.com
Docu	mentRoot /var/www/redmine/public/
Erro	rLog logs/redmine_error_log
<dir< th=""><th><pre>ectory "/var/www/redmine/public/"></pre></th></dir<>	<pre>ectory "/var/www/redmine/public/"></pre>
	Options Indexes ExecCGI FollowSymLinks
	Order allow, deny
	Allow from all
	AllowOverride all
<th>rectory></th>	rectory>
<th>t></th>	t>

Save the file configuration and exit.

Running Redmine

Before execute Redmine in the first time, we must permission for the directory installed Redmine and restart Apache service.



Redmine will run at the following address URL :

http://your-domain

Login to system with an administrator account : admin / admin

You can change your password after successful login.

We can see Redmine has running but very primitive, in the next steps we will install the support plugins and customized Redmine to use professional.

Install Subversion

Subversion, also known as SVN, it is a version management system is very popular and easy to use, most programmers can use it competently.

We need to create a folder to store data for Redmine, the following command creates a directory and permissions for the Apache service.

mkdir -p /opt/repositories/svn chown -R apache:apache /opt/repositories/ chmod 0755 /opt/repositories

The following command install Subversion and the packages :

yum install mod_dav_svn subversion subversion-ruby



B	root@loca	lhost:/var/www	- 🗆 🗙
> Package subve > Finished Deper	ersion-ruby.x86_ ndency Resolutio	_64 0:1.6.11-10.el6_5 w.	ill be inst^
Dependencies Reso	lved		
Package	Arch	Version	Reposi
Installing: mod_dav_svn subversion subversion-ruby	x86_64 x86_64 x86_64 x86_64	1.6.11-10.el6_5 1.6.11-10.el6_5 1.6.11-10.el6_5	update update update
Transaction Summa:	ry		
Install 3 Pa	ackage (s)		
Total download si: Installed size: 13 Is this ok [y/N]:	ze: 2.7 M 3 M		~

The next, we will create a directory and copy the file called "Redmine.pm", it responsible for interface data repository with Redmine and it is written by Perl language programming.

mkdir /usr/lib64/perl5/vendor_perl/Apache

ln -s /var/www/redmine/extra/svn/Redmine.pm /usr/lib64/perl5/vendor_perl/Apache/Redmine.pm

Note : If you are using 32 bit Centos, change the path "/usr/lib64" to "/usr/lib"

After installation is complete, from the Redmine application, go to the page **Administration > Settings > Repositories** to check the results.

To support the authentication and access to data repository for each member, we need to create a virtual host for the Apache service can access Redmine database.

nano /etc/httpd/conf.d/subversion.conf

Add the following lines to the end and still retain the old contents of the file :

```
PerlLoadModule Apache::Redmine
<Location /svn>
        DAV svn
        SVNParentPath "/opt/repositories/svn"
        SVNListParentPath on
        Order deny,allow
        Deny from all
        Satisfy any
        LimitXMLRequestBody 0
        SVNPathAuthz off
        PerlAccessHandler Apache::Authn::Redmine::access_handler
        PerlAuthenHandler Apache::Authn::Redmine::authen_handler
        AuthType Basic
        AuthName "Subversion Repository"
        Require valid-user
        RedmineDSN "DBI:mysql:database=redmine_db;host=localhost:3306"
        RedmineDbUser "redmine admin"
        RedmineDbPass "your_password_database_redmine"
</Location>
```

Note : You need to change the password in the "RedmineDbPass" to correct the database password of Redmine.

At this point, we have finished the basic settings for Redmine.

Thank you!

- BundleInstall.png (29,51 КБ) Mr. DTTH, 2014-06-25 15:28
- AttachFilesPath.png (31,522 КБ) Mr. DTTH, 2014-06-25 15:28
- CompleteInstallphpMyadmin.png (59,686 KE) Mr. DTTH, 2014-06-25 15:28

ConfigDBRedmine.png (29,177 КБ) Мr. DTTH, 2014-06-25 15:28 ConnectCentosOK.png (12,212 КБ) Mr. DTTH, 2014-06-25 15:28 ConnectPutty.png (26,186 КБ) Mr. DTTH, 2014-06-25 15:28 ConfigFirewall.png (31,829 КБ) Mr. DTTH, 2014-06-25 15:28 EditConfigPHPMyadmin.png (35,349 K5) Mr. DTTH, 2014-06-25 15:29 EditSELinux.png (27,149 КБ) Mr. DTTH, 2014-06-25 15:29 EditVirtualHostPHPMyadmin.png (24,385 Kb) Mr. DTTH, 2014-06-25 15:29 httpd.png (27,487 КБ) Mr. DTTH, 2014-06-25 15:29 InstallApacheMysql.png (22,687 K5) Mr. DTTH, 2014-06-25 15:29 DownloadCentos.png (482,322 КБ) Mr. DTTH, 2014-06-25 15:29 InstallPackages.png (35,238 КБ) Мr. DTTH, 2014-06-25 15:30 InstallPassenger.png (27,368 КБ) Mr. DTTH, 2014-06-25 15:30 InstallphpMyadmin.png (24,729 Kb) Mr. DTTH, 2014-06-25 15:30 InstallPHP.png (40,095 КБ) Mr. DTTH, 2014-06-25 15:30 InstallRubyGem.png (31,01 K5) Mr. DTTH, 2014-06-25 15:30 InstallRuby.png (31,883 КБ) Мг. DTTH, 2014-06-25 15:30 InstallSVN.png (22,326 КБ) Мr. DTTH, 2014-06-25 15:30 Iptables.png (34,157 КБ) Mr. DTTH, 2014-06-25 15:30

- ListAllVersionRuby.png (19,847 КБ) Мг. DTTH, 2014-06-25 15:30
- Redmine.png (20,921 КБ) Мr. DTTH, 2014-06-25 15:30
- RedmineDB.png (24,897 КБ) Mr. DTTH, 2014-06-25 15:30
- PhpMyadmin8080.png (16,979 КБ) Mr. DTTH, 2014-06-25 15:30
- RunPHPMyadmin.png (66,336 КБ) Mr. DTTH, 2014-06-25 15:30
- SetHostname.png (15,15 KB) Mr. DTTH, 2014-06-25 15:30
- SetingSVN.png (32,983 K5) Mr. DTTH, 2014-06-25 15:30
- УumUpdate.png (27,968 КБ) Mr. DTTH, 2014-06-25 15:31