



```
joe@ns1-thegummibear:~$ echo "I begin this assignment by adding a new name to the web server. As you have done this several times before, I will hope that you know how."
```

```
I begin this assignment by adding a new name to the web server. As you have done this several times before, I will hope that you know how.
```

```
joe@ns1-thegummibear:~$ █
```

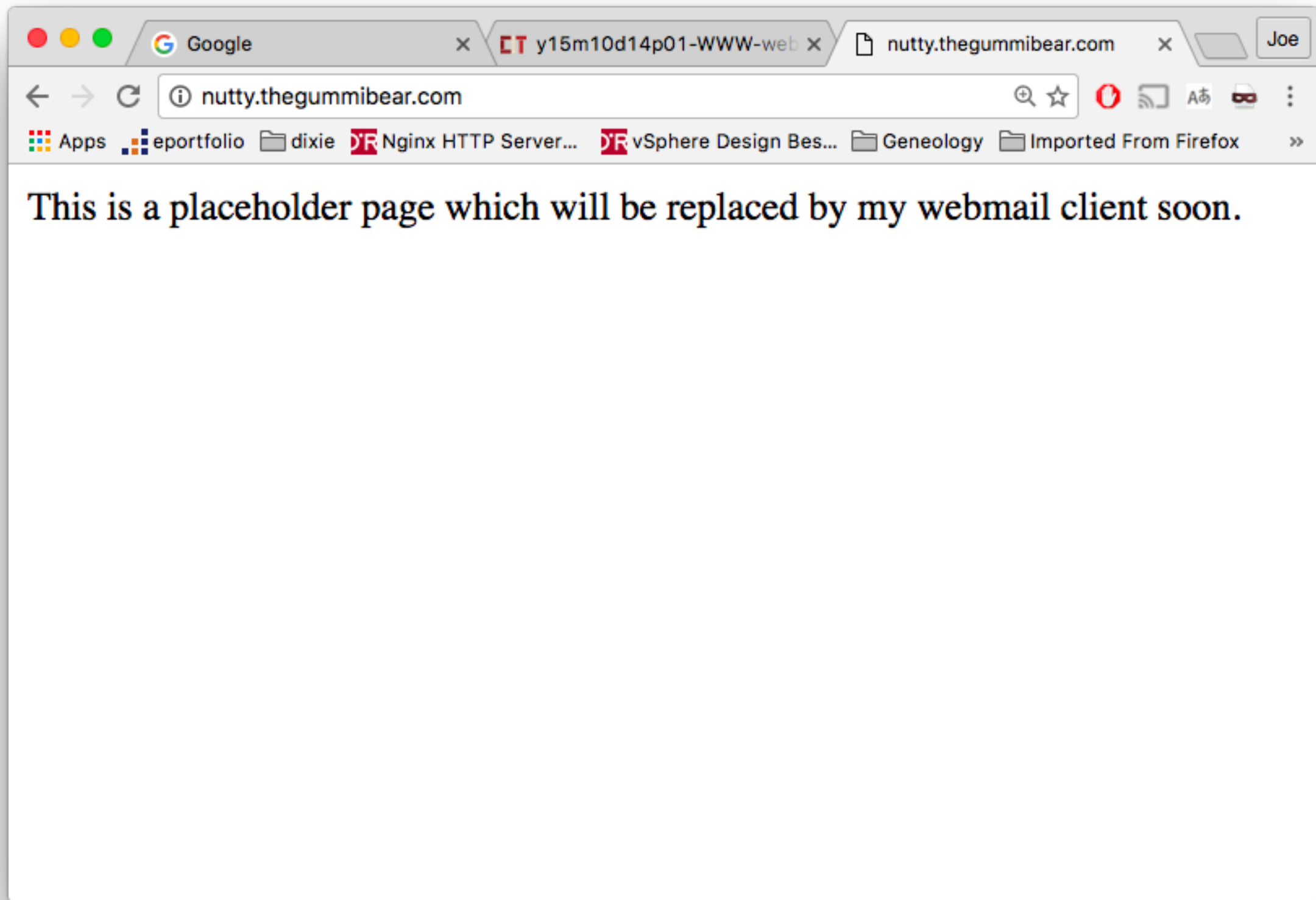
```
joe@ns1-thegummibear:~$ dig @localhost nutty.thegummibear.com | grep nutty
; <<>> DiG 9.10.3-P4-Ubuntu <<>> @localhost nutty.thegummibear.com
;nutty.thegummibear.com.          IN      A
nutty.thegummibear.com. 3600    IN      CNAME   www.thegummibear.com.
joe@ns1-thegummibear:~$ echo "nutty is the new name that I have given to refer to
o www. Note that I haven't removed any configuration, only added a CNAME"
nutty is the new name that I have given to refer to www. Note that I haven't rem
oved any configuration, only added a CNAME
joe@ns1-thegummibear:~$ █
```

```
joe — joe@mail-thegummibear: ~ — ssh • ssh yavin — 80x24
joe@mail-thegummibear:~$ echo "I also did work to add a new user to my MAIL machine"
I also did work to add a new user to my MAIL machine
joe@mail-thegummibear:~$ █
```



```
joe@mail-thegummibear:~$ cat /etc/passwd | grep chanco  
chanco:x:1006:1006:,,,:/home/chanco:/bin/bash  
joe@mail-thegummibear:~$ █
```

```
joe — joe@www-thegummibear: ~ — ssh ‹ ssh yavin — 80×24
joe@www-thegummibear:~$ echo "I also added a new virtual host file to apache"
I also added a new virtual host file to apache
joe@www-thegummibear:~$ █
```



This is a placeholder page which will be replaced by my webmail client soon.

```
joe — joe@www-thegummibear: ~ — ssh ‹ ssh yavin — 80×24
joe@www-thegummibear:~$ echo "We will NOT be installing anything using apt-get t
his time. We will install from source"
We will NOT be installing anything using apt-get this time. We will install fro
m source
joe@www-thegummibear:~$ █
```

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@mail-thegummibear: ~ — ssh • ss...  ~/Desktop — -bash
root@www-thegummibear:~# echo "Install roundcube, the webmail client"
Install roundcube, the webmail client
root@www-thegummibear:~# echo "Download the file using wget"
Download the file using wget
root@www-thegummibear:~# █
```


Stable version

PACKAGE	SIZE	SHA-256 CHECKSUM
1.2.2 - Dependent (*) DOWNLOAD	3.4 MB	6c647ed28ea0ae1b730a1784018b63884e65ed6036208e9c3a6ee62123fe856d
1.2.2 - Complete DOWNLOAD	3.7 MB	b919e797b8bf5ed34748d067dc281f45f29ad71dbad8904bdc0e2258912666ef
Framework: 1.2.2 DOWNLOAD	1.2 MB	825aad508ac3e89f7c498814ec8b9e218a0dc8a10edc28b39964d00681139bee
LTS Version: 1.1.6 (**) DOWNLOAD	3.1 MB	84483513a53e1dfb64acde1d6fee52cd756c6b8bdc2c09c80a7bda2839795a12
LTS Version: 1.0.9 (**) DOWNLOAD	3.9 MB	e4825234146230a585326b2dbe5f73df1d58649f366a5c85c2cc9ffdf37569e2

* Dependent packages only contain sources which are licensed under the GPL but they require some third-party packages to be installed along with Roundcube. All requirements are listed in the INSTALL instructions within the package file.

** Long Term Support with low maintenance mode. This means only security updates and rare fixes of serious issues will go into these release branches.

Other sources and downloads

- Roundcube can also be installed through auto installers like softaculous.com or cPanel.
- The [BitNami Roundcube Stack](#) provides a one-click installer for various platforms and cloud services.
- Via the [Cloudron](#) app store. Each Cloudron is a fully equipped mail server and has sieve integration.
- [Roundcube for OS X Server](#) installer by topicdesk.com
- Various Unix/Linux distributions provide Roundcube via their package managers. Check your local package repository.

<https://github.com/roundcube/roundcubemail/releases/download/1.2.2/roundcubemail-1.2.2-complete.tar.gz> and the archives at sourceforge.net

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@mail-thegummibear: ~ — ssh • ss...  ~/Desktop — -bash  +
root@www-thegummibear:~# echo "I downloaded the 1.2.2 complete"
I downloaded the 1.2.2 complete
root@www-thegummibear:~# █
```

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@mail-thegummibear: ~ — ssh • ss...  ~/Desktop — -bash  +
root@www-thegummibear:~# echo "Extract it"
Extract it
root@www-thegummibear:~# █
```



```
root@www-thegummibear:~# ls  
roundcubemail-1.2.2 roundcubemail-1.2.2-complete.tar.gz  
root@www-thegummibear:~# █
```

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@mail-thegummibear: ~ — ssh • ss...  ~/Desktop — -bash  +
[ root@www-thegummibear:~# ls
roundcubemail-1.2.2  roundcubemail-1.2.2-complete.tar.gz
[ root@www-thegummibear:~# less roundcubemail-1.2.2/INSTALL █
```

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@mail-thegummibear: ~ — ssh • ss...  ~/Desktop — -bash  +

INSTALLATION
=====

1. Decompress and put this folder somewhere inside your document root
2. Make sure that the following directories (and the files within)
   are writable by the webserver
   - /temp
   - /logs
3. Create a new database and a database user for Roundcube (see DATABASE SETUP)
4. Point your browser to http://url-to-roundcube/installer/
5. Follow the instructions of the install script (or see MANUAL CONFIGURATION)
6. After creating and testing the configuration, remove the installer directory
7. Check Known Issues section of this file

CONFIGURATION HINTS
=====

IMPORTANT! Read all comments in defaults.inc.php, understand them
and configure your installation to be not surprised by default behaviour.

:
```



joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24

root@www-thegummibear: ~ — ssh • s...

joe@mail-thegummibear: ~ — ssh • ss...

~/Desktop — -bash



```
root@www-thegummibear:~# echo "Moved to my document root"
```

```
Moved to my document root
```

```
root@www-thegummibear:~# █
```

```
root@www-thegummibear:/var/www/html/nutty.thegummibear.com# ls  
index.html    roundcubemail-1.2.2  
root@www-thegummibear:/var/www/html/nutty.thegummibear.com#
```



```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@db-thegummibear: ~ — ssh • ssh...  ~/Desktop — -bash  +
root@www-thegummibear:~# echo "Already created a database on db server and a user with permissions to connect from this server"
Already created a database on db server and a user with permissions to connect from this server
root@www-thegummibear:~# █
```

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@db-thegummibear: ~ — ssh • ssh...  ~/Desktop — -bash  +
=====

1. Decompress and put this folder somewhere inside your document root
2. Make sure that the following directories (and the files within)
   are writable by the webserver
   - /temp
   - /logs
3. Create a new database and a database user for Roundcube (see DATABASE SETUP)
4. Point your browser to http://url-to-roundcube/installer/
5. Follow the instructions of the install script (or see MANUAL CONFIGURATION)
6. After creating and testing the configuration, remove the installer directory
7. Check Known Issues section of this file

CONFIGURATION HINTS
=====

IMPORTANT! Read all comments in defaults.inc.php, understand them
and configure your installation to be not surprised by default behaviour.


Roundcube writes internal errors to the 'errors' log file located in the logs
directory which can be configured in config/config.inc.php. If you want ordinary
PHP errors to be logged there as well, enable the 'php_value error_log' line
:
```

Google x ET y15m1 x Roundc x Squirr x ET y15m0 x Open s x Roundc x Joe

natty.thegummibear.com/roundcubemail-1.2.2/installer/

Apps eportfolio dixie Nginx HTTP Server... vSphere Design Bes... Geneology Imported From Firefox

roundcube
open source webmail software



[How-to Wiki](#)

Roundcube Webmail Installer

1. Check environment
2. Create config
3. Test config

Checking PHP version

Version: **OK** (PHP 7.0.8-0ubuntu0.16.04.3 detected)

Browser tabs: Google, ET y15r, Round, php PHP, Squi, ET y15r, Oper, Rour, Joe

Address bar: nutty.thegummibear.com/roundcubemail-1.2.2/installer/

Bookmarks: Apps, eportfolio, dixie, Nginx HTTP Server..., vSphere Design Bes..., Geneology, Imported From Firefox

Checking PHP extensions

The following modules/extensions are *required* to run Roundcube:

PCRE: **OK**

DOM: **NOT OK** (See <http://www.php.net/manual/en/book.dom.php>)

Session: **OK**

XML: **NOT OK**

JSON: **OK**

PDO: **OK**

Multibyte: **NOT OK** (See

<http://www.php.net/manual/en/book.mbstring.php>)

OpenSSL: **OK**

The next couple of extensions are *optional* and recommended to get the best performance:

FileInfo: **OK**

Libiconv: **OK**

Intl: **NOT AVAILABLE** (See <http://www.php.net/manual/en/book.intl.php>)

Exif: **OK**

```
root@www-thegummibear: ~ — ssh • s...  joe@db-thegummibear: ~ — ssh • ssh...  ~/Desktop — -bash  +
root@www-thegummibear:~# echo "looks like we are missing a few things, let's see
if we can fix them"
looks like we are missing a few things, let's see if we can fix them
root@www-thegummibear:~#
```

Joe

php.net/manual/en/dom.setup.php

php Downloads Documentation Get Involved Help Search

User Contributed Notes

▲ 11 ▼ eugenekay at kashpureff dot org 5 years ago

```
Certain Linux distributions do not have this extension
included in the minimum PHP package. It can usually be
found in one of the "optional" php-* packages.

For CentOS, you will need to run "yum install php-xml",
which provides this extension.
```

▲ 0 ▼ d at duane dot com 4 years ago

```
On Fedora 16, you can use
yum -y install php-xml
and then be sure to add
extension=dom.so
```

DOMEntityReference
DOMException
DOMImplementation
DOMNamedNodeMap
DOMNode
DOMNodeList
DOMNotation
DOMProcessingInstruction
DOMText
DOMXPath
DOM Functions

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@db-thegummibear: ~ — ssh • ssh...  ~/Desktop — -bash  +
root@www-thegummibear:~# echo "I am just following the suggested readings. I have never installed this before"
I am just following the suggested readings. I have never installed this before
root@www-thegummibear:~# █
```

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@db-thegummibear: ~ — ssh • ssh...  ~/Desktop — -bash  +
root@www-thegummibear:~# echo "See if ubuntu has this same package"
See if ubuntu has this same package
root@www-thegummibear:~# █
```



```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@db-thegummibear: ~ — ssh • ssh...  ~/Desktop — -bash
root@www-thegummibear:~# apt-cache search php-xml
php-pear - PEAR Base System
php-xmlrpc - XMLRPC-EPI module for PHP [default]
php7.0-xml - DOM, SimpleXML, WDDX, XML, and XSL module for PHP
php7.0-xmlrpc - XMLRPC-EPI module for PHP
php-xml - DOM, SimpleXML, WDDX, XML, and XSL module for PHP [default]
php-xml-htsax3 - SAX parser for HTML and other badly formed XML documents
php-xml-parser - XML parsing class based on PHP's bundled expat
php-xml-rpc2 - PHP XML-RPC client/server library
php-xml-serializer - swiss-army knife for reading and writing XML files
php-xml-svg - XML_SVG API
root@www-thegummibear:~#
```



joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24

root@www-thegummibear: ~ — ssh • s...

joe@db-thegummibear: ~ — ssh • ssh...

~/Desktop — -bash



```
root@www-thegummibear:~# sudo apt-get install php7.0-xml
```

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@db-thegummibear: ~ — ssh • ssh...  ~/Desktop — -bash  +
root@www-thegummibear:~# echo "After installing that dom module, I had to restart apache and php, then reload the page"
After installing that dom module, I had to restart apache and php, then reload the page
root@www-thegummibear:~# █
```

Browser tabs: Google, ET y15r, Roundcube, php PHP, Squid, ET y15r, Opera, Roundcube, Joe

Address bar: nutty.thegummibear.com/roundcubemail-1.2.2/installer/

Bookmarks: Apps, eportfolio, dixie, Nginx HTTP Server..., vSphere Design Bes..., Genealogy, Imported From Firefox

Checking PHP extensions

The following modules/extensions are *required* to run Roundcube:

PCRE: **OK**

DOM: **OK**

Session: **OK**

XML: **OK**

JSON: **OK**

PDO: **OK**

Multibyte: **NOT OK** (See

<http://www.php.net/manual/en/book.mbstring.php>)

OpenSSL: **OK**

The next couple of extensions are *optional* and recommended to get the best performance:

FileInfo: **OK**

Libiconv: **OK**

Intl: **NOT AVAILABLE** (See <http://www.php.net/manual/en/book.intl.php>)

Exif: **OK**

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@db-thegummibear: ~ — ssh • ssh...  ~/Desktop — -bash  +
root@www-thegummibear:~# echo "Do the same for any missing modules"
Do the same for any missing modules
root@www-thegummibear:~# █
```

Google x ET y15r x Roun x php PHP: x Squit x ET y15r x Oper x Roun x Joe

nutty.thegummibear.com/roundcubemail-1.2.2/installer/

Apps eportfolio dixie Nginx HTTP Server... vSphere Design Bes... Geneology Imported From Firefox

The following modules/extensions are *required* to run Roundcube:

PCRE: **OK**
DOM: **OK**
Session: **OK**
XML: **OK**
JSON: **OK**
PDO: **OK**
Multibyte: **OK**
OpenSSL: **OK**

The next couple of extensions are *optional* and recommended to get the best performance:

FileInfo: **OK**
Libiconv: **OK**
Intl: **NOT AVAILABLE** (See <http://www.php.net/manual/en/book.intl.php>)
Exif: **OK**
LDAP: **NOT AVAILABLE** (See <http://www.php.net/manual/en/book.ldap.php>)

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@db-thegummibear: ~ — ssh • ssh...  ~/Desktop — -bash  +
root@www-thegummibear:~# echo "I don't care about the optional modules, and the
next button allows me to continue at the bottom of the page, so I continue"
I don't care about the optional modules, and the next button allows me to contin
ue at the bottom of the page, so I continue
root@www-thegummibear:~# █
```

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: ~ — ssh • s...  joe@db-thegummibear: ~ — ssh • ssh...  ~/Desktop — -bash  +
root@www-thegummibear:~# echo "The next page, you should be able to figure out the configuration options"
The next page, you should be able to figure out the configuration options
root@www-thegummibear:~# echo "Your db is remote, put the required settings there"
Your db is remote, put the required settings there
root@www-thegummibear:~# echo "Put the required settings to connect to imap and smtp"
Put the required settings to connect to imap and smtp
root@www-thegummibear:~# █
```


joe — root@www-thegummibear: /var/www/html/nutty.thegummibear.com/roundcubemail-1.2.2 — ssh • ssh yavin — 80...

root@www-thegummibear: /var/www/h...

joe@db-thegummibear: ~ — ssh • ssh...

~/Desktop — -bash

+

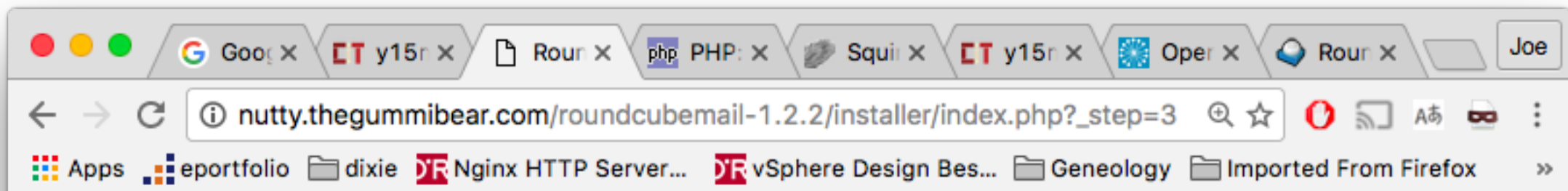
```
root@www-thegummibear: /var/www/html/nutty.thegummibear.com/roundcubemail-1.2.2#
```

```
echo "Copy the config file where indicated"
```

```
Copy the config file where indicated
```

```
root@www-thegummibear: /var/www/html/nutty.thegummibear.com/roundcubemail-1.2.2#
```

```
█
```



1. Check environment

2. Create config

3. Test config

Check config file

defaults.inc.php: **OK**
config.inc.php: **OK**

Check if directories are writable

Roundcube may need to write/save files into these directories

/var/www/html/nutty.thegummibear.com/roundcubemail-1.2.2/temp/: **OK**
/var/www/html/nutty.thegummibear.com/roundcubemail-1.2.2/logs/: **OK**

Check DB config

Google x ET y15r x Roun x php PHP: x Squit x ET y15r x Oper x Roun x Joe

natty.thegummibear.com/roundcubemail-1.2.2/installer/index.php?_step=3

Apps eportfolio dixie Nginx HTTP Server... vSphere Design Bes... Geneology Imported From Firefox

/var/www/html/natty.thegummibear.com/roundcubemail-1.2.2/temp/: **OK**
/var/www/html/natty.thegummibear.com/roundcubemail-1.2.2/logs/: **OK**

Check DB config

DSN (write): **OK**
DB Schema: **NOT OK** (Database not initialized)

Initialize database

Test filetype detection

Fileinfo/mime_content_type configuration: **OK**
Mimetype to file extension mapping: **OK**

Test SMTP config

Server: mail.thegummibear.com
Port: 587

```
root@www-thegummibear: /var/www/html/nutty.thegummibear.com/roundcubemail-1.2.2#
```

```
echo "Might as well initialize it!"
```

```
Might as well initialize it!
```

```
root@www-thegummibear: /var/www/html/nutty.thegummibear.com/roundcubemail-1.2.2#
```



```
joe — joe@db-thegummibear: ~ — ssh • ssh yavin — 80x24
root@www-thegummibear: /var/www/h...  • joe@db-thegummibear: ~ — ssh • ssh...  ~/Desktop — -bash
mysql> show tables
-> ;
+-----+
| Tables_in_roundcube |
+-----+
| cache                |
| cache_index          |
| cache_messages       |
| cache_shared         |
| cache_thread         |
| contactgroupmembers |
| contactgroups        |
| contacts              |
| dictionary            |
| identities            |
| searches              |
| session              |
| system               |
| users                |
+-----+
14 rows in set (0.00 sec)

mysql> █
```

```
root@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.2.2#
```

```
echo "Might as well initialize it!"
```

```
Might as well initialize it!
```

```
root@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.2.2#
```

```
echo "The initializer created all those!"
```

```
The initializer created all those!
```


```
root@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.2.2#
```



Google x ET y15m10d14p01-W x Joe's Webmail :: W x Roundcube Webma x Joe

← → × ⓘ nutty.thegummibear.com/roundcubemail-1.2.2/ 🔍 ☆ 🔴 📶 Aa 🖨️ ⋮

Apps eportfolio dixe Nginx HTTP Server... vSphere Design Bes... Geneology Imported From Firefox >>

roundcube 

Username

Password

Waiting for nutty.thegummibear.com...

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
~ — root@www-thegummibear: ~ — ssh • ssh yavin  ~/Desktop — joe@mail-thegummibear: ~ — ssh • ssh yavin ... +
root@www-thegummibear:~# echo "I had to now manually edit the config file to specify some good options"
I had to now manually edit the config file to specify some good options
root@www-thegummibear:~# █
```



```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
~ — root@www-thegummibear: ~ — ssh • ssh yavin  ~/Desktop — joe@mail-thegummibear: ~ — ssh • ssh yavin  ... +
// %n - hostname ($_SERVER['SERVER_NAME'])
// %t - hostname without the first part
// %d - domain (http hostname $_SERVER['HTTP_HOST'] without the first part)
// %s - domain name after the '@' from e-mail address provided at login screen
// For example %n = mail.domain.tld, %t = domain.tld
// WARNING: After hostname change update of mail_host column in users table is
//           required to match old user data records with the new host.
$config['default_host'] = 'ssl://mail.thegummibear.com';

$config['imap_conn_options'] = array(
    'ssl' => array(
        'verify_peer' => false,
        'verify_peer_name' => false,
    ),
);
// TCP port used for IMAP connections
// $config['default_port'] = 993;
$config['default_port'] = 143;

// -----
// SMTP
// -----
// SMTP server host (for sending mails).
```

roundcube 

Username

Password

Login

i You have successfully terminated the session. Good bye!

roundcube 

Username

Password

Login

Refresh | Compose | Reply | Reply all | Forward | Delete | Mark | More | All | Search

Inbox | Sent

Subject	From	Date	Size
• Re: foo test	Joe Francom	Today 17:15	3 KB

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
~ — root@www-thegummibear: ~ — ssh • ssh yavin  ~/Desktop — joe@mail-thegummibear: ~ — ssh • ssh yavin ... +
root@www-thegummibear:~# echo "Test it by sending and receiving some emails"
Test it by sending and receiving some emails
root@www-thegummibear:~# █
```

```
joe — root@www-thegummibear: ~ — ssh • ssh yavin — 80x24
~ — root@www-thegummibear: ~ — ssh • ssh yavin  ~/Desktop — joe@mail-thegummibear: ~ — ssh • ssh yavin  ... +
root@www-thegummibear:~# echo "In your roundcube install directory, there is also a logs directory which could prove informative"
In your roundcube install directory, there is also a logs directory which could prove informative
root@www-thegummibear:~# █
```