I have already added a new CNAME for this website.

```
$ echo "I have already added a new CNAME for this website"
```

```
$ dig @localhost nutty.thegummibear.com | grep A
```

```
;; HEADER: opcode: QUERY, status: NOERROR, id: 56727
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 2, ADDITIONAL: 3
;nutty.thegummibear.com. IN A
;; ANSWER SECTION:
www.thegummibear.com. 3600 IN A 144.38.199.53
;; AUTHORITY SECTION:
;; ADDITIONAL SECTION:
ns1.thegummibear.com. 3600 IN A 144.38.199.50
ns2.thegummibear.com. 3600 IN A 144.38.199.51
```
echo "I have already added a new user on my mail machine"

cat /etc/passwd | grep chancho

chancho:x:1004:1004:,,,:/home/chancho:/bin/bash
I have also added a new vhost to apache

```
<VirtualHost 144.38.199.53:80>
  ServerName nutty.thegummibear.com
  DocumentRoot /var/www/html/nutty.thegummibear.com
</VirtualHost>
```
This is a placeholder for nutty
going to install the roundcube email client from source
Download your version of Roundcube

Stable version - 1.3.8

<table>
<thead>
<tr>
<th>Package</th>
<th>Size</th>
<th>SHA-256 checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dependent</td>
<td>3.0 MB</td>
<td>93314f125033d8ce2755198367c45bddd2f4cfee5d7688f913877bee6b532858</td>
</tr>
<tr>
<td>Complete</td>
<td>5.2 MB</td>
<td>c49e33f9643f98311b700138a1e1a0358c37b1205250e1124bd43d7f9a920d05</td>
</tr>
<tr>
<td>Framework</td>
<td>1.2 MB</td>
<td>f4d753ea98144d0a80755752f6be2a9c4038386cc44339cdc857989e645fb39</td>
</tr>
</tbody>
</table>

Old stable - 1.2.9

<table>
<thead>
<tr>
<th>Package</th>
<th>Size</th>
<th>SHA-256 checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dependent</td>
<td>3.4 MB</td>
<td>7b4967606e0c7e0b3b97aa49914f62aac50e6d778019eae503c332cea5829d4d</td>
</tr>
<tr>
<td>Complete</td>
<td>3.7 MB</td>
<td>0fed9def3b9441f93388c81ab47de58cd3b301f221c892d0c3fdcd3fd949797b</td>
</tr>
</tbody>
</table>
$ ls
roundcube-mail-1.3.8-complete.tar.gz

$ echo "I downloaded with wget: the complete version"
I downloaded with wget: the complete version

$
joe@www-thegummibear:~$ ls
roundcubemail-1.3.8-complete.tar.gz
joe@www-thegummibear:~$ tar -xvzf roundcubemail-1.3.8-complete.tar.gz
joe@www-thegummibear:~$ ls
roundcubemail-1.3.8  roundcubemail-1.3.8-complete.tar.gz
joe@www-thegummibear:~$ cd roundcubemail-1.3.8/
joe@www-thegummibear:~/roundcubemail-1.3.8$ ls
bin  config  installer  plugins  README.md  temp
CHANGELOG  index.php  LICENSE  program  skins  UPGRADED
composer.json-dist  INSTALL  logs  public_html  SQL  vendor
joe@www-thegummibear:~/roundcubemail-1.3.8$ less README.md
1. Decompress and put this folder somewhere inside your document root

2. In case you don't use the so-called "complete" release package, you have to install PHP and javascript dependencies.
   2.1. Install PHP dependencies using composer:
       - get composer from https://getcomposer.org/download/
       - rename the composer.json-dist file into composer.json
       - if you want to use LDAP address books, enable the LDAP libraries in your composer.json file by moving the items from "suggest" to the "require" section (remove the explanation texts after the version!).
       - run `php composer.phar install --no-dev`
   2.2. Install Javascript dependencies by executing `bin/install-jsdeps.sh` script.

3. Make sure that the following directories (and the files within) are writable by the webserver
   - /temp
   - /logs

4. Create a new database and a database user for Roundcube (see DATABASE SETUP)
5. Point your browser to http://url-to-roundcube/installer/
6. Follow the instructions of the install script (or see MANUAL CONFIGURATION)
joe@www-thegummibear:~$ less INSTALL
joe@www-thegummibear:~$ cd ..
joe@www-thegummibear:~$ ls
roundcubemail-1.3.8  roundcubemail-1.3.8-complete.tar.gz
joe@www-thegummibear:~$ mv roundcubemail-1.3.8 /var/www/html/nutty.thegummibear.com/
1. Decompress and put this folder somewhere inside your document root
2. In case you don't use the so-called "complete" release package, you have to install PHP and javascript dependencies.
   2.1. Install PHP dependencies using composer:
       - get composer from https://getcomposer.org/download/
       - rename the composer.json-dist file into composer.json
       - if you want to use LDAP address books, enable the LDAP libraries in your composer.json file by moving the items from "suggest" to the "require" section (remove the explanation texts after the version!).
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3. Make sure that the following directories (and the files within) are writable by the webserver
   - /temp
   - /logs
4. Create a new database and a database user for Roundcube (see DATABASE SETUP)
5. Point your browser to http://url-to-roundcube/installer/
6. Follow the instructions of the install script (or see MANUAL CONFIGURATION)
joe@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.3.8$ sudo chown :www-data logs/
joe@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.3.8$ sudo chown :www-data temp/
joe@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.3.8$
you have to install PHP and javascript dependencies.

2.1. Install PHP dependencies using composer:
   - get composer from https://getcomposer.org/download/
   - rename the composer.json-dist file into composer.json
   - if you want to use LDAP address books, enable the LDAP libraries in your composer.json file by moving the items from "suggest" to the "require" section (remove the explanation texts after the version!).
   - run `php composer.phar install --no-dev`

2.2. Install Javascript dependencies by executing `bin/install-jsdeps.sh` script.

3. Make sure that the following directories (and the files within)
   are writable by the webserver
   - /temp
   - /logs

4. Create a new database and a database user for Roundcube (see DATABASE SETUP)

5. Point your browser to http://url-to-roundcube/installer/

6. Follow the instructions of the install script (or see MANUAL CONFIGURATION)

7. After creating and testing the configuration, remove the installer directory

8. Check Known Issues section of this file
I have already created the database and granted permissions to connect from this webserver.
```sql
mysql> select Host, Db, User from db;

<table>
<thead>
<tr>
<th>Host</th>
<th>Db</th>
<th>User</th>
</tr>
</thead>
<tbody>
<tr>
<td>144.38.199.53</td>
<td>roundcube</td>
<td>ramses</td>
</tr>
<tr>
<td>localhost</td>
<td>hogwarts</td>
<td>harry</td>
</tr>
<tr>
<td>localhost</td>
<td>performance_schema</td>
<td>mysql.session</td>
</tr>
<tr>
<td>localhost</td>
<td>sys</td>
<td>mysql.sys</td>
</tr>
</tbody>
</table>
```

4 rows in set (0.00 sec)

```sql
mysql> `
1. Decompress and put this folder somewhere inside your document root
2. In case you don't use the so-called "complete" release package, you have to install PHP and javascript dependencies.
   2.1. Install PHP dependencies using composer:
       - get composer from https://getcomposer.org/download/
       - rename the composer.json-dist file into composer.json
       - if you want to use LDAP address books, enable the LDAP libraries in your composer.json file by moving the items from "suggest" to the "require" section (remove the explanation texts after the version!).
       - run `php composer.phar install --no-dev`
   2.2. Install Javascript dependencies by executing `bin/install-jsdeps.sh` script.
3. Make sure that the following directories (and the files within) are writable by the webserver
   - /temp
   - /logs
4. Create a new database and a database user for Roundcube (see DATABASE SETUP)
5. Point your browser to http://url-to-roundcube/installer/
6. Follow the instructions of the install script (or see MANUAL CONFIGURATION)
This page isn't working

nutty.thegummbear.com is currently unable to handle this request.

HTTP ERROR 500
joe@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.3.8$ sudo less /var/log/apache2/error.log
PHP Fatal error: Uncaught Error: Class 'DOMDocument' not found in /var/www/html/nutty.theumibear.com/roundcubemail-1.3.8/program/include/rcmail_output_html.php on line 6101

Stack trace:

#0 /var/www/html/nutty.theumibear.com/roundcubemail-1.3.8/program/include/rcmail_output_html.php(905): html::parse_attrib_string('condition="!env..."

#1 /var/www/html/nutty.theumibear.com/roundcubemail-1.3.8/program/include/rcmail_output_html.php(633): rcmail_output_html->parse_condition('<!DOCTYPE html>...'

#2 /var/www/html/nutty.theumibear.com/roundcubemail-1.3.8/program/include/rcmail_output_html.php(488): rcmail_output_html->parse('error', false)

#3 /var/www/html/nutty.theumibear.com/roundcubemail-1.3.8/program/steps/utils/error.inc(143): rcmail_output_html->send('error')

#4 /var/www/html/nutty.theumibear.com/roundcubemail-1.3.8/program/include/rcmail_output_html.php(753): include('/var/www/html/n...')

echo "looks like we need to install another package. After looking on google..."

suggested Bourne shells

Reading package lists... Done
Building dependency tree
Reading state information... Done

Note, selecting 'php7.2-xml' instead of 'php-dom'

The following packages were automatically installed and are no longer required:
  libaio1 libcgi-fast-perl libcgi-pm-perl libencode-locale-perl
  libevent-core-2.1-6 libfcgi-perl libhtml-parser-perl libhtml-tagset-perl
  libhtml-template-perl libhttp-date-perl libhttp-message-perl
  libio-html-perl liblwp-mediatypes-perl libtimezone-perl liburi-perl
  mysql-client-5.7 mysql-client-core-5.7 mysql-common mysql-server-5.7
  mysql-server-core-5.7

Use 'sudo apt autoremove' to remove them.

The following additional packages will be installed:
  libxslt1.1

The following NEW packages will be installed:
  libxslt1.1 php7.2-xml
echo "It helps to visit the correct url as well. Don't forget the /installer"
Checking PHP version

Version: **OK** (PHP 7.2.15-0ubuntu0.18.04.1 detected)

Checking PHP extensions

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

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

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

- FileInfo: **OK**
- Libiconv: **OK**
sudo apt search mbstring
Sorting... Done
Full Text Search... Done

php-mbstring/bionic,bionic 1:7.2+60ubuntu1 all
   MBSTRING module for PHP [default]

php-patchwork-utf8/bionic,bionic 1.3.1-1 all
   UTF-8 strings handling for PHP

php-symfony-polyfill-mbstring/bionic,bionic 1.6.0-2 all
   Symfony polyfill for the Mbstring extension

php-symfony-polyfill-util/bionic,bionic 1.6.0-2 all
   Symfony utilities for portability of PHP codes

php7.2-mbstring/bionic-security 7.2.15-0ubuntu0.18.04.1 amd64
   MBSTRING module for PHP
Checking PHP version

Version: **OK** (PHP 7.2.15-0ubuntu0.18.04.1 detected)

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: **OK**
- OpenSSL: **OK**

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

- FileInfo: **OK**
- Libiconv: **OK**
Net_IDNA2: OK
Mail_mime: OK
Net_LDAP3: OK

Checking php.ini/.htaccess settings

The following settings are required to run Roundcube:

file_uploads: OK
session.auto_start: OK
mbstring.func_overload: OK
suhosin.session.encrypt: OK

The following settings are optional and recommended:

allow_url_fopen: OK
date.timezone: NOT OK (not set)
echo "Now I'm only going to capture things I change"
Now I'm only going to capture things I change
**Database setup**

`db_dsnw`

Database settings for read/write operations:

- **MySQL**
  - Database server (omit for sqlite)
  - Database name (use absolute path and filename for sqlite)
  - Database user name (needs write permissions)(omit for sqlite)
  - Database password (omit for sqlite)

`db_prefix`

Optional prefix that will be added to database object names (tables and sequences).

**IMAP Settings**
IMAP Settings

default_host

The IMAP host(s) chosen to perform the log-in

ssl://mail.the gummibear.com

+ add

Leave blank to show a textbox at login. To use SSL/IMAPS connection, type ssl://hostname

default_port

993

TCP port used for IMAP connections

username_domain

Automatically add this domain to user names for login

Only for IMAP servers that require full e-mail addresses for login

auto_create_user

Automatically create a new Roundcube user when log-in the first time
SMTP Settings

smtp_server

mail.thegummibear.com

Use this host for sending mails

To use SSL connection, set ssl://smtp.host.com.

smtp_port

25

SMTP port (default is 25; 465 for SSL; 587 for submission)

smtp_user/smtp_pass

SMTP username and password (if required)

☐ Use the current IMAP username and password for SMTP authentication

smtp_log

☑ Log sent messages in {log_dir}/sendmail or to syslog.
Detects vCard attachments and allows to add them to address book. Also allows to attach vCards of your contacts to composed messages

- **virtuser_file**
  
  Plugin adds possibility to resolve user email/login according to lookup tables in files.

- **virtuser_query**
  
  Plugin adds possibility to resolve user email/login according to lookup tables in SQL database.

- **zipdownload**
  
  Adds an option to download all attachments to a message in one zip file, when a message has multiple attachments. Also allows the download of a selection of messages in one zip file. Supports mbox and maildir format.

Please consider checking dependencies of enabled plugins
echo "Do what it says to the config file"
Do what it says to the config file
$config['support_url'] = '';

// This key is used for encrypting purposes, like storing of imap password
// in the session. For historical reasons it's called DES_key, but it's used
// with any configured cipher_method (see below).
$config['des_key'] = '305JDpyOW1WJ67qhiO2ltt0j';

// --------------------------
// PLUGINS
// --------------------------
// List of active plugins (in plugins/ directory)
$config['plugins'] = array();

Of course there are more options to configure. Have a look at the defaults.inc.php file or visit Howto_Config to find out.

CONTINUE

---

**General configuration**

product_name

Roundcube Webmail
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-1.3.8/temp/: **NOT OK**  (not writable for the webserver)
/var/www/html/nutty.thegummibear.com/roundcubemail-1.3.8/logs/: **NOT OK**  (not writable for the webserver)
```

Use `chmod` or `chown` to grant write privileges to the webserver

Check DB config

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

total 272

drwxr-xr-x  2 joe   joe    4096 Mar  2 09:55  bin
-rw-r-----  1 joe   joe   155016 Oct 23 05:12  CHANGELIST
-rw-r---r--  1 joe   joe     1046 Oct 23 05:12  composer.json-dist
drwxr-xr-x  2 joe   joe    4096 Mar  2 10:16  config
-rw-r---r--  1 joe   joe   12726 Oct 23 05:12  index.php
-rw-r---r--  1 joe   joe   10901 Oct 23 05:12  INSTALL
drwxr-xr-x  3 joe   joe    4096 Mar  2 09:55  installer
-rw-r---r--  1 joe   joe    35147 Oct 23 05:12  LICENSE

drwxr-xr-x  2 joe  www-data  4096 Mar  2 09:55  logs

drwxr-xr-x  25 joe  www-data  4096 Mar  2 09:55  plugins

drwxr-xr-x   8 joe   joe    4096 Mar  2 09:55  program

drwxr-xr-x  3 joe   joe    4096 Mar  2 09:55  public_html
-rw-r---r--  1 joe   joe    3876 Oct 23 05:12  README.md
drwxr-xr-x   4 joe   joe    4096 Mar  2 09:55  skins

drwxr-xr-x   7 joe   joe    4096 Oct 23 05:12  SQL

drwxr-xr-x   2 joe  www-data    4096 Mar  2 09:55  temp
-rw-r---r--  1 joe   joe    3579 Oct 23 05:12  UPGRADE

drwxr-xr-x   8 joe   joe    4096 Mar  2 09:55  vendor

joe@www-the-gummibear:/var/www/html/nutty.the-gummibear.com/roundcubemail-1.3.8$
ls -l

total 272

-rw-r--r-- 1 joe joe 155016 Oct 23 05:12 CHANGELOG
-rw-r--r-- 1 joe joe 1046 Oct 23 05:12 composer.json-dist
-drwxr-xr-x 2 joe joe 4096 Mar 2 09:55 bin
-drwxr-xr-x 2 joe joe 4096 Mar 2 10:16 config
-drwxr-xr-x 1 joe joe 12726 Oct 23 05:12 index.php
-drwxr-xr-x 1 joe joe 10901 Oct 23 05:12 INSTALL
-drwxr-xr-x 3 joe joe 4096 Mar 2 09:55 installer
-drwxr-xr-x 1 joe joe 35147 Oct 23 05:12 LICENSE
-drwxr-xr-x 2 joe www-data 4096 Mar 2 09:55 logs
-drwxr-xr-x 35 joe joe 4096 Mar 2 09:55 plugins
-drwxr-xr-x  8 joe joe 4096 Mar 2 09:55 program
-drwxr-xr-x  3 joe joe 4096 Mar 2 09:55 public_html
-drwxr-xr-x  1 joe joe  3876 Oct 23 05:12 README.md
-drwxr-xr-x  4 joe joe 4096 Mar 2 09:55 skins
-drwxr-xr-x  7 joe joe 4096 Oct 23 05:12 SQL
-drwxr-xr-x  2 joe www-data 4096 Mar 2 09:55 temp
-drwxr-xr-x  1 joe joe 3579 Oct 23 05:12 UPRADING
-drwxr-xr-x  8 joe joe 4096 Mar 2 09:55 vendor

chomd 775 logs/ temp/
joe@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.3.8$  
echo "initialize teh db"
initialize teh db
joe@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.3.8$
echo "if it doesn't initialize, check your db user permissions"
if it doesn't initialize, check your db user permissions
Test IMAP config

Server: ssl://mail.thegummibear.com
Port: 993
Username: 
Password: 

Check login

After completing the installation and the final tests please remove the whole installer folder from the document root of the webserver or make sure that enable_installer option in config.inc.php is disabled.

These files may expose sensitive configuration data like server passwords and encryption keys to the public. Make sure you cannot access this installer from your browser.
joe@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.3.8$ rm -rf installer/
echo "Visit the URL – minus the installer"

Visit the URL – minus the installer
echo "First attempt failed"
First attempt failed
joe@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.3.8/logs

logss$ less errors
[02-Mar-2019 10:18:30 -0700]: <ljlb4aau> IMAP Error: Login failed for chancho from 64.255.89.6. Could not connect to ssl://mail.thegummibear.com:993: Unknown reason in /var/www/html/nutty.thegummibear.com/roundcubemail-1.3.8/program/lib/Roundcube/rcube_imap.php on line 196 (POST /roundcubemail-1.3.8/?_task=login&_a
c tion=login)
$ echo "Hmmm... let's change a few things"
Hmmm... let's change a few things
$
Hm... let's change a few things

cd..

cd config/

ls

sudo vi config.inc.php
// %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';

// Adding this section

$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.inc.php" 74L, 2993C written
Yay, logged in as chancho. Make sure you can send/receive.
chancho <chancho@mail.thegummibear.com>
to joe

Can you hear me?
Re: foo test

From: Joe Francom
To: chancho
Date: Today 10:24

It works!

On Sat, Mar 2, 2019 at 10:24 AM chancho <chancho@mail.thegummibear.com> wrote:

Can you hear me?
joe@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.3.8/config$ echo "I was able to send/receive"
I was able to send/receive
joe@www-thegummibear:/var/www/html/nutty.thegummibear.com/roundcubemail-1.3.8/config$