

Installing Blesta

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Softaculous Auto Installer

Does your server have [Softaculous](#) installed? If so, you may alternatively install Blesta through Softaculous.



Installatron Auto Installer

Does your server have [Installatron](#) installed? If so, you may alternatively install Blesta through Installatron.

Installation

Watch the video or follow these steps to install Blesta on your server.

1. Download Blesta

Visit https://account.blesta.com/client/plugin/download_manager/client_main/ and click to download the latest version.

2. Unzip the Archive

Unzip the Blesta archive (.zip) file using your favorite compression utility. On Windows, right click and select "Extract All". If the zip is uploaded to or downloaded directly to a Linux server, run the following in your shell:

```
unzip blesta-vx.x.x.zip
```

3. Apply Hotfix Files (if necessary)

The Blesta files are available in the `/blesta/` directory. These are the files you should use by default. However, it may be necessary to overwrite some of them with a set from a hotfix directory.

The files from a hotfix directory need to be applied if you are running an older version of the ionCube loader, or an older version of PHP. The following criteria will help you to determine what hotfix directory to use to overwrite your Blesta files with prior to installation.



A message will be displayed during installation indicating what hotfix should be applied if one is necessary.

A hotfix is necessary if your ionCube loader is older than v10.1.0:

- ionCube version $\geq 10.1.0$ - no hotfix needs to be applied. *Skip to [step 4](#).*
- ionCube version $< 10.1.0$ - **a hotfix needs to be applied**

If a hotfix needs to be applied, the correct hotfix to use depends on your version of PHP:

- PHP version $\geq 7.1.0$ - use `/hotfix-php71/blesta/`
- PHP version $\geq 5.6.0$ and $< 7.1.0$ - use `/hotfix-php7/blesta/`
- PHP version $\geq 5.4.0$ and $< 5.6.0$ - use `/hotfix-php54/blesta/`

Apply the hotfix by overwriting the contents of the `/blesta/` directory with the contents of the hotfix directory (e.g. `/hotfix-php71/blesta/`).

4. Upload Files & Launch Installer

Upload the contents of the `/blesta/` directory to your server where you will be accessing Blesta. Before you continue any further, ensure you've created a database that Blesta can be installed into. You'll need your database host (usually `localhost`), database name, database user, and database user password to continue with installation.

Blesta may be installed in one of two ways, either via the web in your browser, or via command line.

Web Installation

Follow these steps to install Blesta via the web.

1. Point your web browser to the location where you uploaded the contents of blesta (e.g. https://yourdomain.com/path_to_blesta/).
2. Follow the on screen instructions to complete installation.
3. Once installation completes, you'll be prompted to create your administrator user and enter your license key or start a free trial.

The following is an example PHP script to perform automatic (not interactive) installation via the web URL:

Web Installer CURL Script

```
<?php
#
# This makes a POST request to the Blesta installer
#

$post = [
    'agree' => 'yes',
    'host' => 'localhost',
    'port' => '3306',
    'database' => 'blesta',
    'user' => 'user',
    'password' => 'password',
];

$ch = curl_init();

curl_setopt($ch, CURLOPT_URL, 'myblestadomain.com/install/process');
curl_setopt($ch, CURLOPT_POST, true);
curl_setopt($ch, CURLOPT_POSTFIELDS, http_build_query($post));
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);

$response = curl_exec($ch);
$errors = curl_error($ch);
curl_close($ch);

echo "RESPONSE: ";
print_r($response);

echo "ERRORS: ";
var_dump($errors);
```

NOTE! If the web server is not Apache, or is missing mod_rewrite, the curl URL must be pre-pended with index.php, e.g. myblestadomain.com /index.php/install/process

Command Line Installation

Follow these steps to install Blesta via the command line.

1. In a shell, cd to the directory you uploaded the contents of blesta.
2. The CLI installer can be run in interactive mode, or non-interactive mode by passing parameters.
 - a. For interactive mode run

```
php ./index.php install
```



Root Web Directory Setting

If Blesta is not installed in the document root on your web server, it is important to note that the "Root Web Directory" setting will be inaccurate unless you install Blesta while your current working directory is set to the document root:

Installing from the web server's document root

```
cd /to/your/web/server/document/root/
php ./path/to/blesta/index.php install
```

- b. For automatic mode run

```
php ./index.php install -dbhost DATABASE_HOST -dbport DATABASE_PORT -dbname DATABASE_NAME -dbuser DATABASE_USER -dbpass DATABASE_PASS -hostname WEBSITE_HOSTNAME -docroot DOCUMENT_ROOT_PATH
```

With staff user creation (Fully Scripted) v5.10+:

```
php ./index.php install -dbhost DATABASE_HOST -dbport DATABASE_PORT -dbname DATABASE_NAME -dbuser DATABASE_USER -dbpass DATABASE_PASS -hostname WEBSITE_HOSTNAME -docroot DOCUMENT_ROOT_PATH -domain DOMAIN -licensekey LICENSE_KEY -firstname FIRST_NAME -lastname LAST_NAME -email EMAIL -username USERNAME -password PASSWORD
```

Parameter	Description	Version Added
-dbhost	The database hostname (usually localhost)	3.0
-dbport	The database port (usually 3306)	3.0
-dbname	The database name	3.0
-dbuser	The database user	3.0
-dbpass	The database password	3.0
-hostname	The website hostname. For example, billing.domain.com. This is the hostname where Blesta will be accessed from. If not set, will attempt to detect the hostname from server configuration, which in many cases will not be accurate.	3.0
-docroot	The full absolute path to the web server's document root (e.g. <code>/var/www/html/</code>). This should not be set to Blesta's installed directory unless Blesta is installed in document root. If this value is not set, it will be set based on your current working directory, which will not be accurate unless the current working directory is the document root.  This value can be changed from within Blesta, after installation, under <i>Settings > System > General > "Root Web Directory"</i>.	4.6
-domain	(Optional) The domain to be used in template email addresses.  This value is used to determine email addresses for templates and can be changed under <i>Settings > Company > Emails</i>.	5.10
-licensekey	(Optional) The license key for Blesta. If none is provided, a trial license will be fetched.	5.10
-firstname	The First Name of the first Staff user.	5.10
-lastname	The Last Name of the first Staff user.	5.10
-email	The email address for the first Staff user.	5.10
-username	The username for the first Staff user.	5.10
-password	The password for the first Staff user.	5.10

- Once installation completes, direct your web browser to https://yourdomain.com/path_to_blesta/admin/ to create your administrator user and enter your license key or start a free trial.

Once completed, you'll be logged in for the first time automatically. For subsequent logins, see [Logging In](#). You may also want to enable [Two-Factor Authentication](#).

License Information

If you do not have a license key, you will be able to activate a free trial during the installation process directly. If you have previously purchased a license key, you will be able to enter it during the installation process. You may obtain a license directly from us at www.blesta.com, from one of our resellers, or directly from your hosting provider. Version 2 license keys are not compatible with version 3, so if you only have a version 2 license key you will need to request a version 3 key for each version 2 license you hold.

5. Set up a Cron Job

Once installation is complete, a cron job must be created to automate tasks within Blesta. Go to [Settings] > [System] > Automation, and copy the "Cron Command", for use in creating a cron job on your server. Most hosting control panels provide an easy way to create cron jobs, follow the documentation for your control panel to complete this important step. The cron job should run **every 5 minutes**. Once the cron has been configured, verify that the status icon turns green and displays the last time run on the System Automation page within Blesta.



If using a control panel to configure the cron, you may not need to copy the first part of the cron command `"*/5 * * * *`" which designates that the cron run every 5 minutes. Your control panel may ask for schedule information separately. Please also note that your path to PHP may be different, as it can vary from server to server. On some cPanel servers, the path is `/usr/local/bin/php`

Automation

Cron Status

The cron has never run.

Example Cron Command [?](#)

```
*/*5 * * * * /bin/php -q /Volumes/Documents/blesta/public_html/index.php cron > /dev/null 2>&1
```

[Update Cron Key](#)

Run Cron Manually



Cron Emails

The cron outputs information about the tasks it is running, and your cron daemon may email your cron user the output of your Blesta crons. To disable that, you can append the following to the end of your cron command: `" >/dev/null 2>&1"` (remove quotes)



Running the cron via the web

Using CLI is always recommended, but the cron may be run by accessing `https://www.yourdomain.com/blesta/install/path/cron/?cron_key=CRONKEY` where CRONKEY is your cron key as displayed under "Update Cron Key"

wget method

```
/usr/bin/wget -q /dev/null -q https://www.yourdomain.com/blesta/cron/?cron_key=CRONKEY
```

If you do not have `mod_rewrite`, the URL will need to include `index.php`, for example: `https://www.yourdomain.com/blesta/install/path/index.php/cron/?cron_key=CRONKEY` where CRONKEY is your cron key as displayed under "Updated Cron Key".

System Configuration

There are a number of configuration settings that may be set before or after installation.

Requiring index.php in URLs

By default Blesta does not include `index.php` as part of any URL request, thanks to the use of `.htaccess` `mod_rewrite` rules. If your server does not support `mod_rewrite` Blesta requires `index.php` to be included in all URLs. To force Blesta to include `index.php` in all URLs simply rename or delete the `.htaccess` file included with Blesta in your root web directory.



Does your server support URL rewriting?

If so, you may be able to enable pretty URLs by creating the appropriate web server config, and modifying the `/lib/init.php` file to set **define** (`"HTACCESS", true`);

Changing the path to the Admin area

By default the path to the Admin area begins with `/admin/`. To change this locate **routes.php** in `/installpath/config/routes.php` and modify the value of the "Route.admin" configuration. For example, to change the path of the admin area to `/staff/` set the following:

routes.php

```
Configure::set("Route.admin", "staff");
```

Changing the path to the Client area

By default the path to the Client area begins with `/client/`. To change this locate **routes.php** in `/installpath/config/routes.php` and modify the value of the "Route.client" configuration. For example, to change the path of the client area to `/customers/` set the following:

routes.php

```
Configure::set("Route.client", "customers");
```

Forcing HTTPS

If your server supports `mod_rewrite`, you can enable HTTPS redirects by uncommenting the following lines (remove the '#' symbols) from the `.htaccess` file included with Blesta.

.htaccess

```
#RewriteCond %{HTTPS} !=on
#RewriteRule ^ https://%{HTTP_HOST}%{REQUEST_URI} [R=307,NE,L]
```

Common Installation Issues

Errors

- During installation, you receive a blank page that reads **"The file `/blesta/app/models/license.php` is corrupted."** or **"The file `/blesta/app/app_controller.php` is corrupted."**
 - You must apply the correct [hotfix files](#) to your installation.
- During installation, you receive a blank white page (or a 500 Internal Server Error).
 - You may not have the ionCube loader installed correctly, or you may not have applied the correct [hotfix files](#) over your Blesta installation.
- Connection FAILED. Ensure that you have created the database and that the credentials are correct.**
 - Check to ensure the hostname, database name, user, and password you entered are correct and try again.
 - If the credentials are correct you may have MySQL **old_passwords** enabled. Disable `old_passwords` for your database or update your user's password:

```
% mysql
% SET SESSION old_passwords=0;
% SET PASSWORD FOR 'username'@'localhost' = PASSWORD('password');
```

- Call to undefined function `crypt_random()` on line **1660** in `/home/user/blesta/vendors/phpseclib/Crypt/RSA.php`
 - The line number and path may be different. This error has most commonly been seen with Nginx installations. The issue has to do with a missing `include_path` in `php.ini`.
 - Edit your `php.ini` to add the `include_path` to your PHP binary.
 - Please see this [forum thread](#) for more details on this issue, and to download a test script to confirm whether your server is affected by this issue.
- The email failed to send due to a configuration issue.** Occurs when trying to send an email, and email is configured correctly.
 - Disable SELinux** (Via SSH run as root `"echo 0 > /selinux/enforce"` Then, so that it remains off after boot, edit `/etc/sysconfig/selinux` and set `SELINUX=disabled`
 - If you **MUST** run SELinux (not recommended) you can run the following command instead `"setsebool -P httpd_can_sendmail 1"`
- Mod rewrite is not enabled, or htaccess is not supported by this server.**
 - Make sure `mod_rewrite` is loaded in Apache and that `AllowOverrides` is set to `All` in your `httpd.conf` for your virtualhost
 - Make sure `MultiViews` is disabled in your virtualhost in `httpd.conf`. (If you receive this error and the URL in your browser is `~/install/` this is almost certainly the issue)
- Cron does not work, outputs error "Undefined variable: argv on line"...**
 - Edit your `php.ini` file and set `register_argc_argv` to `"on"`. Restart the web server.
 - If running CloudLinux, you may need to edit the `php.ini` for `alt-php`. The location of the `php.ini` will be something like: `/opt/alt/php54/etc/php.ini` (Note the version `php54`, `php55`, etc) Then, run the following command to rebuild: `cagefsctl --rebuild-alt-php-ini`
- I get a white page at `/settings/company/billing/invoices/` after upgrading to version 4**
 - Remove `~/helpers/html`. This directory was removed in v4 and may be causing the issue. You might also see the error "Cannot declare class `Html`, because the name is already in use in ..."
- I get an "Undefined index: total" or "Error while sending QUERY packet" or "PDOStatement::execute(): send of 113 bytes failed with errno=32 Broken pipe"**
 - It's possible `max_allowed_packets` and/or `wait_timeout` values are too low in your MySQL config. Edit `/etc/my.cnf` (default location) and set `max_allowed_packets` to a value of **128M** or higher, and `wait_timeout` to a value of **3600** or higher.
- After I install, when I try to login it automatically logs me out. I may see a flash of the Dashboard before I'm redirected.**
 - Make sure the PHP extension **Suhosin** is disabled.
- I get an error about open_basedir restriction: realpath(): open_basedir restriction in effect**
 - We recommend disabling `open_basedir`. For Plesk, see <https://support.plesk.com/hc/en-us/articles/213919825-How-to-change-PHP-parameter-for-all-domains-> and set `open_basedir` to `"none"`. For cPanel see https://documentation.cpanel.net/display/76Docs/PHP+open_basedir+Tweak

- The alternative is to add additional paths to open_basedir to satisfy Blesta, including /dev/urandom, /tmp, and your users home directory (i.e. /home/username/)

IIS

- Submitting data reloads the current page
 - There is an issue with your web.config file. Try the following web.config file:

```
<?xml version="1.0"?>
<configuration>
  <system.webServer>
    <rewrite>
      <rules>
        <rule name="Main Rule" stopProcessing="true">
          <match url=".*" />
          <conditions logicalGrouping="MatchAll">
            <add input="{REQUEST_FILENAME}" matchType="IsFile" negate="true" />
            <add input="{REQUEST_FILENAME}" matchType="IsDirectory" negate="true" />
          </conditions>
          <action type="Rewrite" url="index.php" />
        </rule>
      </rules>
    </rewrite>
  </system.webServer>
</configuration>
```

Next, update /core/ServiceProviders/MinphpBridge.php and make the following change:

```
// $htaccess = file_exists($rootWebDir . '.htaccess');
$htaccess = true;
```

Nginx



Experienced users only

Please note Nginx is for experienced or advanced users; for beginners we highly recommend Apache or LiteSpeed (Premium) because nginx can be confusing to set-up correctly.

- For pretty URL's (without /index.php/ in every URI) you will need to add a custom Nginx configuration. For a community provided example configuration, please see <https://www.blesta.com/forums/index.php?/topic/9320-nginx-config/> or use the following (recommended) configuration

```

◦ # Redirect HTTP to HTTPS
server {
    listen 0.0.0.0:80 default_server; # IPv4
    listen [::]:80 default_server; # IPv6
    server_name account.yourdomain.com; # Hostname
    return 301 https://$host$request_uri;
}

# Run Blesta on SSL
server {
    listen 0.0.0.0:443 default_server ssl http2; # IPv4
    listen [::]:443 default_server ssl http2; # IPv6
    server_name account.yourdomain.com; # Hostname
    root /var/www/account.yourdomain.com; # Installation directory
    # SSL cert/key pair
    ssl_certificate /etc/ssl/certs/account.yourdomain.com.crt;
    ssl_certificate_key /etc/ssl/private/account.yourdomain.com.key;

    # iFrame protection
    add_header X-Frame-Options SAMEORIGIN;

    location / {
        try_files $uri /index.php;
        rewrite ^(.*)/install\.php$ /$1/install/ redirect;
    }

    location = /index.php {
        fastcgi_pass unix:/run/php/php7.3-fpm.sock; # PHP socket
        fastcgi_param SCRIPT_FILENAME $document_root/index.php; # Blesta /index.php
        fastcgi_param SCRIPT_NAME $fastcgi_script_name;
        include fastcgi_params;
    }

    location ~ /\. {
        log_not_found off;
        return 404;
    }

    location ~* \.(php|pdt|txt)$ {
        log_not_found off;
        return 404;
    }
}

```

```

server {
    listen      80 default_server;
    listen [::]:80 default_server;
    server_name _;

    access_log  /path/to/.logs/access.log main;
    error_log   /path/to/.logs/errors.log warn;

    root /path/to/site/public;
    index index.php index.html;

    location / { try_files $uri $uri/ /index.php?q=$uri&$args; }

    error_page 500 502 503 504 /50x.html;
    location = /50x.html { root /var/lib/nginx/html; }

    location ~ \.php$ {
        try_files $uri =404;
        fastcgi_split_path_info ^(.+\.php)(/.+)$;
        fastcgi_pass 127.0.0.1:9000;
        fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
        fastcgi_param SCRIPT_NAME $fastcgi_script_name;
        fastcgi_index index.php;
        include fastcgi_params;
    }
}

```

```

}

location ~* \.(jpg|jpeg|gif|png|css|js|ico|xml)$ { expires 5d; }

if ($scheme != https) { return 307 https://domain.tld$request_uri; }
}

server {
    listen      443 ssl;
    listen [::]:443 ssl;
    server_name _;

    access_log  /path/to/.logs/access.log main;
    error_log   /path/to/.logs/errors.log warn;

    root /path/to/site/public;
    index index.php index.html;

    location / { try_files $uri $uri/ /index.php?q=$uri&$args; }

    error_page 500 502 503 504 /50x.html;
    location = /50x.html { root /var/lib/nginx/html; }

    location ~ \.php$ {
        try_files $uri =404;
        fastcgi_split_path_info ^(.+\.php)(/.+)$;
        fastcgi_pass 127.0.0.1:9000;
        fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
        fastcgi_param SCRIPT_NAME $fastcgi_script_name;
        fastcgi_index index.php;
        include fastcgi_params;
    }

    location ~* \.(jpg|jpeg|gif|png|css|js|ico|xml)$ { expires 5d; }

    ssl_certificate      /etc/letsencrypt/live/domain.tld/fullchain.pem;
    ssl_certificate_key   /etc/letsencrypt/live/domain.tld/privkey.pem;
    ssl_dhparam           /etc/letsencrypt/dhparam.pem;

    ssl_buffer_size 8k;

    ssl_protocols TLSv1.2 TLSv1.3;
    ssl_ciphers ECDH+AESGCM:ECDH+AES256:ECDH+AES128:DH+3DES:!ADH:!AECDH:!MD5;
    ssl_prefer_server_ciphers on;

    ssl_ecdh_curve secp384r1;
    ssl_session_tickets off;

    ssl_stapling on;
    ssl_stapling_verify on;
    resolver 8.8.8.8;

    add_header Strict-Transport-Security 'max-age=31536000; includeSubDomains; preload';

    if ($host != domain.tld) { return 307 https://domain.tld$request_uri; }
}

```

- Next, update `/core/ServiceProviders/MinphpBridge.php` and make the following change:

```

// $htaccess = file_exists($rootWebDir . '.htaccess');
$htaccess = true;

```

Litespeed

- Installation of Blesta times out.
 - Increase the timeout by taking the following action: Navigate to WebAdmin CP > Configuration > Server > Tuning, and change Connection Timeout to 300.

Lighttpd

- This sample configuration is community provided:
 - Edit lighttpd.conf

```
server.modules += ( "mod_redirect" )
server.modules += ( "mod_rewrite" )

#if blesta install is http://<mydomain>.<mytld>/clients/
url.rewrite-if-not-file = ( "^/clients/(.*)$" => "/clients/index.php" )
url.redirect = ( "^(.*)/clients/install.php$" => "$1/clients/install/" )
```

Cron Issues

- Cron does not seem to complete normally and Settings > Company > Automation shows some hung tasks.
 - Try disabling your cron job, and running the cron manually under Settings > System > Automation. If it runs correctly, you may have a memory issue in your CLI environment with Zend Memory Manager. Some users have reported that appending **export USE_ZEND_ALLOC=0**; to the beginning of their cron job resolved the issue. When using this method, your cron may look something like this: `export USE_ZEND_ALLOC=0; /usr/bin/php /home/user/public_html/blesta/index.php cron`

Cloudflare

- Widgets do not appear in the client or admin areas, CSS or Javascript does not appear to load or Blesta doesn't look right.
 - Disable Rocket Loader and Auto Minify within Cloudflare. We would recommend not using Cloudflare for Blesta at all if possible.

License Validation Issues

- License does not seem to validate. I've confirmed that port 443 egress is open at my firewall at Curl SSL is installed.
 - Make sure `mbstring.func_overload` is off in your `php.ini`. Overloading single byte functions with `mbstring` multibyte functions will prevent encryption from working properly and your license will not validate.
 - Make sure that **System.debug** is set to **false** in your `~/config/blesta.php` config file (Blesta 4.0+ only). It should appear as: **Configure::set("System.debug", false);**