

# BookStack LAMP

## Installation: Installing BookStack (Debian 11)

### 1. Install dependencies.

```
apt install -y git unzip apache2 php7.4 curl php7.4-fpm php7.4-curl php7.4-mbstring  
php7.4-ldap \  
php7.4-tidy php7.4-xml php7.4-zip php7.4-gd php7.4-mysql libapache2-mod-php7.4 \  
default-mysql-server
```

### 2. Setup database.

```
DB_PASS="$(head /dev/urandom | tr -dc A-Za-z0-9 | head -c 13)"  
mysql -u root --execute="CREATE DATABASE bookstack;"  
mysql -u root --execute="CREATE USER 'bookstack'@'localhost' IDENTIFIED WITH  
mysql_native_password AS PASSWORD('$DB_PASS');"  
mysql -u root --execute="GRANT ALL ON bookstack.* TO 'bookstack'@'localhost';FLUSH  
PRIVILEGES;"
```

### 3. Install PHP package manager.

```
# Install composer  
EXPECTED_CHECKSUM="$(php -r 'copy("https://composer.github.io/installer.sig",  
"php://stdout");')"  
php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"  
ACTUAL_CHECKSUM="$(php -r "echo hash_file('sha384', 'composer-setup.php');")"  
  
if [ "$EXPECTED_CHECKSUM" != "$ACTUAL_CHECKSUM" ]  
then  
    >&2 echo 'ERROR: Invalid composer installer checksum'  
    rm composer-setup.php  
    exit 1  
fi
```

```
php composer-setup.php --quiet
rm composer-setup.php

# Move composer to global installation
mv composer.phar /usr/local/bin/composer
```

#### 4. Download BookStack PHP webapp files.

```
cd /var/www
git clone https://github.com/BookStackApp/BookStack.git --branch release --single-branch bookstack
cd bookstack
```

#### 5. Configure BookStack.

```
# Install BookStack composer dependencies
export COMPOSER_ALLOW_SUPERUSER=1
php /usr/local/bin/composer install --no-dev --no-plugins

# Copy and update BookStack environment variables
cp .env.example .env
sed -i.bak "s@APP_URL=.*\@$APP_URL=http://$DOMAIN@" .env
sed -i.bak 's/DB_DATABASE=.*$/DB_DATABASE=bookstack/' .env
sed -i.bak 's/DB_USERNAME=.*$/DB_USERNAME=bookstack/' .env
sed -i.bak "s/DB_PASSWORD=.*\@$DB_PASSWORD=$DB_PASS/" .env

# Generate the application key
php artisan key:generate --no-interaction --force
# Migrate the databases
php artisan migrate --no-interaction --force

# Set file and folder permissions
chown www-data:www-data -R bootstrap/cache public/uploads storage && chmod -R 755
bootstrap/cache public/uploads storage
```

#### 6. Configure Apache to serve new BookStack app.

```
# Set up apache
a2enmod rewrite
a2enmod php7.4

# Create apache config file to serve webapp
```

```

vim /etc/apache2/sites-available/bookstack.conf
<VirtualHost *:80>
    ServerName 10.10.10.100          # Set to static IP otherwise define
hostname in DNS entry for it to work.
    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/bookstack/public/
    <Directory /var/www/bookstack/public/>
        Options Indexes FollowSymLinks
        AllowOverride None
        Require all granted
    <IfModule mod_rewrite.c>
        <IfModule mod_negotiation.c>
            Options -MultiViews -Indexes
        </IfModule>
        RewriteEngine On
        # Handle Authorization Header
        RewriteCond %{HTTP:Authorization} .
        RewriteRule .* - [E=HTTP_AUTHORIZATION:%{HTTP:Authorization}]
        # Redirect Trailing Slashes If Not A Folder...
        RewriteCond %{REQUEST_FILENAME} !-d
        RewriteCond %{REQUEST_URI} (.+)/$
        RewriteRule ^ %1 [L,R=301]
        # Handle Front Controller...
        RewriteCond %{REQUEST_FILENAME} !-d
        RewriteCond %{REQUEST_FILENAME} !-f
        RewriteRule ^ index.php [L]
    </IfModule>
</Directory>
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>

```

## 7. Verify config file and enable it

```

apachectl configtest
a2dissite 000-default.conf          # Disable default website
a2ensite bookstack.conf
systemctl restart apache2

```

## 8. Login into Bookstack: Browser > \$BOOKSTACK\_IP > Login('admin@admin.com', 'password')

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