

Running BookStack in aaPanel Using Docker

BookStack is a free and open-source wiki software aimed for a simple, self-hosted, and easy-to-use platform. Based on Laravel, a PHP framework, BookStack is released under the MIT License. It uses the ideas of books to organise pages and store information.

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Running BookStack in aaPanel Using Docker

Create Docker compose in YAML file

Write this following code:

```
version: '3.8'

services:
  bookstack:
    image: lscr.io/linuxserver/bookstack:latest
    container_name: bookstack_app
    environment:
      - PUID=1000
      - PGID=1000
      - TZ=<You timezone>
      - DB_HOST=<Your site public IP>
      - DB_DATABASE=<Your DB name>
      - DB_USERNAME=<Your DB username>
      - DB_PASSWORD=<Your DB password>
      - APP_KEY=<Generated API key>
      - APP_URL=<Your app URL>:<Host port>
    ports:
      - <Host port>:80
    volumes:
      - /<Your host bookstack path>/config:/config
    networks:
      - bridge
```

volumes:

uploads:

networks:

bridge:

Run this following command:

```
docker compose up -d
```

Activating SSL for BookStack Application

Add New Site

This following code is the original nginx setup.

```
server
{
    listen 80;
    server_name learning.introvesia.com;
    index index.php index.html index.htm default.php default.htm default.html;
    root /www/wwwroot/learning.introvesia.com;

    #SSL-START SSL related configuration, do NOT delete or modify the next line of commented-out 404 rules
    #error_page 404/404.html;
    #SSL-END

    #ERROR-PAGE-START Error page configuration, allowed to be commented, deleted or modified
    error_page 404 /404.html;
    error_page 502 /502.html;
    #ERROR-PAGE-END

    #PHP-INFO-START PHP reference configuration, allowed to be commented, deleted or modified
    include enable-php-00.conf;
    #PHP-INFO-END

    #REWRITE-START URL rewrite rule reference, any modification will invalidate the rewrite rules set by the
panel
    include <Subdomain Configuration Path>/learning.introvesia.com.conf;
    #REWRITE-END

    # Forbidden files or directories
```

```

location ~ ^/(\.user.ini|\.htaccess|\.git|\.env|\.svn|\.project|LICENSE|README.md)
{
    return 404;
}

# Directory verification related settings for one-click application for SSL certificate
location ~ \.well-known{
    allow all;
}

#Prohibit putting sensitive files in certificate verification directory
if ( $uri ~ "^\.well-known/.*\.(php|jsp|py|js|css|lua|ts|go|zip|tar\.gz|rar|7z|sql|bak)$" ) {
    return 403;
}

location ~ .*\.(\.gif|\.jpg|\.jpeg|\.png|\.bmp|\.swf)$
{
    expires    30d;
    error_log /dev/null;
    access_log /dev/null;
}

location ~ .*\.(\.js|\.css)?$
{
    expires    12h;
    error_log /dev/null;
    access_log /dev/null;
}

access_log /www/wwwlogs/learning.introvesia.com.log;
error_log /www/wwwlogs/learning.introvesia.com.error.log;
}

```

Setup After SSL is Activated

```

server
{
    listen 80;
}

```

```

listen 443 ssl http2;

server_name learning.introvesia.com;

index index.php index.html index.htm default.php default.htm default.html;

root /www/wwwroot/learning.introvesia.com;


#CERT-APPLY-CHECK--START
# Configuration related to file verification for SSL certificate application - Do not delete
include <Subdomain Well-Known Path>/learning.introvesia.com.conf;
#CERT-APPLY-CHECK--END

#SSL-START SSL related configuration, do NOT delete or modify the next line of commented-out 404 rules
#error_page 404/404.html;
#HTTP_TO_HTTPS_START
if ($server_port !~ 443){
    rewrite ^(/.*)$ https://$host$1 permanent;
}
#HTTP_TO_HTTPS_END
ssl_certificate    <Subdomain File Path>/fullchain.pem;
ssl_certificate_key <Subdomain File Path>/privkey.pem;
ssl_protocols TLSv1.1 TLSv1.2 TLSv1.3;
ssl_ciphers <Generated SSL Ciphers>;
ssl_prefer_server_ciphers on;
ssl_session_cache shared:SSL:10m;
ssl_session_timeout 10m;
add_header Strict-Transport-Security "max-age=31536000";
error_page 497 https://$host$request_uri;

##SSL-END


#ERROR-PAGE-START Error page configuration, allowed to be commented, deleted or modified
error_page 404 /404.html;
error_page 502 /502.html;
#ERROR-PAGE-END


#PHP-INFO-START PHP reference configuration, allowed to be commented, deleted or modified
include enable-php-00.conf;
#PHP-INFO-END


#REWRITE-START URL rewrite rule reference, any modification will invalidate the rewrite rules set by the
panel
include <Subdomain Configuration Path>/learning.introvesia.com.conf;

```

```

#REWRITE-END

# Forbidden files or directories
location ~ ^/(\.user.ini|\.htaccess|\.git|\.env|\.svn|\.project|LICENSE|README.md)
{
    return 404;
}

# Directory verification related settings for one-click application for SSL certificate
location ~ /\.well-known{
    allow all;
}

#Prohibit putting sensitive files in certificate verification directory
if ( $uri ~ "^\.well-known/.*\.(php|jsp|py|js|css|lua|ts|go|zip|tar\.gz|rar|7z|sql|bak)$" ) {
    return 403;
}

location ~ .*\.(\.gif|\.jpg|\.jpeg|\.png|\.bmp|\.swf)$
{
    expires      30d;
    error_log /dev/null;
    access_log /dev/null;
}

location ~ .*\.(\.js|\.css)?$
{
    expires      12h;
    error_log /dev/null;
    access_log /dev/null;
}
access_log /www/wwwlogs/learning.introvesia.com.log;
error_log /www/wwwlogs/learning.introvesia.com.error.log;
}

```

SSL Activation with Reverse Proxy

This following code will activate SSL.

```

server
{
    listen 80;
    #listen 443 ssl http2;
    server_name learning.introvesia.com;
    index index.php index.html index.htm default.php default.htm default.html;
    root /www/wwwroot/learning.introvesia.com;

    #CERT-APPLY-CHECK--START
    # Configuration related to file verification for SSL certificate application - Do not delete
    include <Subdomain Well-Known Path>/learning.introvesia.com.conf;
    #CERT-APPLY-CHECK--END
    #SSL-START SSL related configuration, do NOT delete or modify the next line of commented-out 404 rules
    #error_page 404/404.html;
    #HTTP_TO_HTTPS_START
    if ($server_port != 443){
        rewrite ^(/.*)$ https://$host$1 permanent;
    }
    #HTTP_TO_HTTPS_END
    ssl_certificate <Subdomain File Path>/fullchain.pem;
    ssl_certificate_key <Subdomain File Path>/privkey.pem;
    ssl_protocols TLSv1.1 TLSv1.2 TLSv1.3;
    ssl_ciphers <Generated SSL Ciphers>;
    ssl_prefer_server_ciphers on;
    ssl_session_cache shared:SSL:10m;
    ssl_session_timeout 10m;
    add_header Strict-Transport-Security "max-age=31536000";
    error_page 497 https://$host$request_uri;
    #SSL-END

    #ERROR-PAGE-START Error page configuration, allowed to be commented, deleted or modified
    error_page 404 /404.html;
    error_page 502 /502.html;
    #ERROR-PAGE-END

    #PHP-INFO-START PHP reference configuration, allowed to be commented, deleted or modified
    include enable-php-00.conf;
    #PHP-INFO-END

    #REWRITE-START URL rewrite rule reference, any modification will invalidate the rewrite rules set by the

```


panel

```
include <Subdomain Configuration Path>/learning.introvesia.com.conf;
```

```
#REWRITE-END
```

```
location / {
```

```
    proxy_pass http://localhost:8080; # Forward requests to BookStack
```

```
    proxy_set_header Host $host;
```

```
    proxy_set_header X-Real-IP $remote_addr;
```

```
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
```

```
    proxy_set_header X-Forwarded-Proto $scheme;
```

```
}
```

```
# Forbidden files or directories
```

```
location ~ ^/(\.user\.ini|\.htaccess|\.git|\.env|\.svn|\.project|LICENSE|README.md)
```

```
{
```

```
    return 404;
```

```
}
```

```
# Directory verification related settings for one-click application for SSL certificate
```

```
location ~ \.well-known{
```

```
    allow all;
```

```
}
```

```
access_log /www/wwwlogs/learning.introvesia.com.log;
```

```
error_log /www/wwwlogs/learning.introvesia.com.error.log;
```

```
}
```

BookStack DB Adjustment for MySQL 8

Modify these following tables:

- `cache`

```
ALTER TABLE `cache` ADD PRIMARY KEY(`key`);
```

- `password_resets`

```
ALTER TABLE `password_resets` ADD PRIMARY KEY(`email`);
```

- `sessions`

```
ALTER TABLE `sessions` ADD PRIMARY KEY(`id`);
```