BookStack - Installation unter Debian 13 (Trixie)

```
wget https://codeberg.org/bookstack/devops/raw/branch/main/scripts/installation-debian-13.sh
```

```
#!/bin/bash

echo "THIS SCRIPT IS NOT CONSIDERED OFFICIALLY SUPPORTED!"
echo "Only our Ubuntu LTS scripts are considered supported. This is community"
echo "maintained and provided for convenience. It may not be up-to-date or may"
echo "have unresolved issues. Use with caution."
echo ""

echo "This installs a new BookStack instance on a fresh Debian 13 (Trixie) server."
echo "This script does not ensure system security."
echo ""

# Generate a path for a log file to output into for debugging
LOGPATH=$(realpath "bookstack_install_$(date +%s).log")

# Get the current user running the script
SCRIPT_USER="${SUDO_USER:-$USER}"

# Get the current machine IP address
CURRENT_IP=$(ip addr | grep 'state UP' -A4 | grep 'inet ' | awk '{print $2}' | cut -f1  -d'/')

# Generate a password for the database
DB_PASS="$(head /dev/urandom | tr -dc A-Za-z0-9 | head -c 13)"

# The directory to install BookStack into
BOOKSTACK_DIR="/var/www/bookstack"

# Get the domain from the arguments (Requested later if not set)
DOMAIN=$1
```

```
# Prevent interactive prompts in applications
export DEBIAN_FRONTEND=noninteractive

# Echo out an error message to the command line and exit the program
# Also logs the message to the log file
function error_out() {
  echo "ERROR: $1" | tee -a "$LOGPATH" 1>&2
  exit 1
}

# Echo out an information message to both the command line and log file
function info_msg() {
  echo "$1" | tee -a "$LOGPATH"
}

# Run some checks before installation to help prevent messing up an existing
# web-server setup.
function run_pre_install_checks() {
  # Check we're running as root and exit if not
  if [[ $EUID -gt 0 ]]
  then
    error_out "This script must be ran with root/sudo privileges"
  fi

  # Check if Apache appears to be installed and exit if so
  if [ -d "/etc/apache2/sites-enabled" ]
  then
    error_out "This script is intended for a fresh server install, existing apache config
found, aborting install"
  fi

  # Check if MySQL/MariaDB appears to be installed and exit if so
  if [ -d "/var/lib/mysql" ]
  then
    error_out "This script is intended for a fresh server install, existing MySQL data found,
aborting install"
  fi
}
```

```
# Fetch domain to use from first provided parameter,
# Otherwise request the user to input their domain
function run_prompt_for_domain_if_required() {
  if [ -z "$DOMAIN" ]
  then
    info_msg ""
    info_msg "Enter the domain (or IP if not using a domain) you want to host BookStack on and
press [ENTER]."
    info_msg "Examples: my-site.com or docs.my-site.com or ${CURRENT_IP}"
    read -r DOMAIN
  fi

  # Error out if no domain was provided
  if [ -z "$DOMAIN" ]
  then
    error_out "A domain must be provided to run this script"
  fi
}

# Install core system packages
function run_package_installs() {
  apt update
  apt install -y git unzip apache2 curl mariadb-server php8.4 \
  php8.4-fpm php8.4-curl php8.4-mbstring php8.4-ldap php8.4-xml php8.4-zip php8.4-gd php8.4-
mysql
}

# Set up database
function run_database_setup() {
  # Ensure database service has started
  systemctl start mariadb.service
  sleep 3

  # Create the required user database, user and permissions in the database
  mysql -u root --execute="CREATE DATABASE bookstack;"
  mysql -u root --execute="CREATE USER 'bookstack'@'localhost' IDENTIFIED BY '$DB_PASS';"
  mysql -u root --execute="GRANT ALL ON bookstack.* TO 'bookstack'@'localhost';FLUSH
PRIVILEGES;"
}
```

```
# Download BookStack
function run_bookstack_download() {
  cd /var/www || exit
  git clone https://github.com/BookStackApp/BookStack.git --branch release --single-branch
bookstack
}

# Install BookStack composer dependencies
function run_download_bookstack_vendor_files() {
  cd "$BOOKSTACK_DIR" || exit
  php bookstack-system-cli download-vendor
}

# Copy and update BookStack environment variables
function run_update_bookstack_env() {
  cd "$BOOKSTACK_DIR" || exit
  cp .env.example .env
  sed -i.bak "s@APP_URL=.*\$@APP_URL=http://$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
}

# Run the BookStack database migrations for the first time
function run_bookstack_database_migrations() {
  cd "$BOOKSTACK_DIR" || exit
  php artisan migrate --no-interaction --force
}

# Set file and folder permissions
# Sets current user as owner user and www-data as owner group then
# provides group write access only to required directories.
# Hides the `.env` file so it's not visible to other users on the system.
function run_set_application_file_permissions() {
  cd "$BOOKSTACK_DIR" || exit
  chown -R "$SCRIPT_USER":www-data ./
  chmod -R 755 ./
  chmod -R 775 bootstrap/cache public/uploads storage
```

```
  chmod 740 .env

  # Tell git to ignore permission changes
  git config core.fileMode false
}

# Setup apache with the needed modules and config
function run_configure_apache() {
  # Enable required apache modules and config
  a2enmod rewrite proxy_fcgi setenvif
  a2enconf php8.4-fpm

  # Set-up the required BookStack apache config
  cat >/etc/apache2/sites-available/bookstack.conf <<EOL
<VirtualHost *:80>
  ServerName ${DOMAIN}

  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>
EOL

  # Disable the default apache site and enable BookStack
  a2dissite 000-default.conf
  a2ensite bookstack.conf

  # Restart apache to load new config
  systemctl restart apache2
  # Ensure php-fpm service has started
  systemctl start php8.4-fpm.service
}

info_msg "This script logs full output to $LOGPATH which may help upon issues."
sleep 1

run_pre_install_checks
run_prompt_for_domain_if_required
info_msg ""
info_msg "Installing using the domain or IP \"$DOMAIN\""
info_msg ""
sleep 1

info_msg "[1/8] Installing required system packages... (This may take several minutes)"
run_package_installs >> "$LOGPATH" 2>&1

info_msg "[2/8] Preparing MySQL database..."
run_database_setup >> "$LOGPATH" 2>&1

info_msg "[3/8] Downloading BookStack to ${BOOKSTACK_DIR}..."
```

```
run_bookstack_download >> "$LOGPATH" 2>&1

info_msg "[4/8] Downloading PHP dependency files..."
run_download_bookstack_vendor_files >> "$LOGPATH" 2>&1

info_msg "[5/8] Creating and populating BookStack .env file..."
run_update_bookstack_env >> "$LOGPATH" 2>&1

info_msg "[6/8] Running initial BookStack database migrations..."
run_bookstack_database_migrations >> "$LOGPATH" 2>&1

info_msg "[7/8] Setting BookStack file & folder permissions..."
run_set_application_file_permissions >> "$LOGPATH" 2>&1

info_msg "[8/8] Configuring apache server..."
run_configure_apache >> "$LOGPATH" 2>&1

info_msg "------------------------------------------------------------"
info_msg "Setup finished, your BookStack instance should now be installed!"
info_msg "- Default login email: admin@admin.com"
info_msg "- Default login password: password"
info_msg "- Access URL: http://$CURRENT_IP/ or http://$DOMAIN/"
info_msg "- BookStack install path: $BOOKSTACK_DIR"
info_msg "- Install script log: $LOGPATH"
info_msg "------------------------------------------------------------"
```

Revision #6
Created 2026-08-05 19:50:33 UTC by Admin
Updated 2026-08-10 14:32:34 UTC by Admin