

Deploying BookStack via CasaOS App Store

Environment Context:

- **Hostname:** LinuxServer
 - **OS:** Ubuntu Server (CasaOS UI layer)
 - **Hardware:** Micro PC (7th-Gen Intel Core i5, 16GB DDR4 RAM, 512GB NVMe SSD)
 - **Service:** BookStack (BigBearCasaOS Repository)
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1. Host OS Optimization

Before deploying database-heavy containers, ensure the host Ubuntu Server is configured to maintain the write endurance and performance of the 512GB NVMe SSD.

Connect to `LinuxServer` via SSH (or via the local KVM console) and enable the continuous TRIM timer:

```
sudo systemctl enable --now fstrim.timer
```

2. CasaOS Installation

To prevent volume overlap and network isolation issues, utilize the pre-configured application template from the CasaOS App Store.

1. Navigate to the CasaOS web dashboard (`http://192.168.x.x`).
2. Open the **App Store**.
3. Search for and select **BookStack** (Developer: Dan Brown / BigBearCasaOS).
4. Click **Install**.
5. **Crucial:** Once the installation finishes, *do not click the app icon yet*. Proceed immediately to configuration.

3. Configuration & Routing Fixes

The default BigBear template contains a placeholder URL and uses port `8080`, which often causes conflicts and results in a `500 Internal Server Error`. These must be adjusted before the first boot.

1. Click the three vertical dots (`⋮`) on the newly installed BookStack icon and select **Settings**.
2. **Update Web UI Port:** At the top of the settings window, change the Web UI port `8080` to a dedicated port (e.g., `6875`).
3. **Update Host Port:** Scroll down to the **Port** section. Change the Host port `8080` to `6875`. (*Leave the Container port as 80*).
4. **Fix App URL:** Scroll down to the **Environment Variables** section. Locate the `APP_URL` key.
5. Change the value from the literal placeholder `http://[change to your IP]:8080` to the server's exact static IP and new port:
 - **Value:** `http://192.168.x.x:6875`
6. Click the blue **Save** button.

4. Database Initialization

When the settings are saved, CasaOS will restart the container. BookStack's internal MariaDB container must now generate its base tables on the NVMe drive.

- **Wait exactly 60 to 120 seconds** to allow the i5 processor to complete the initial database migrations.
- Attempting to access the application before this completes may result in an incomplete database generation and a fatal crash loop.

5. First Login and Security Hook

Once initialization is complete, click the BookStack app icon on the CasaOS dashboard. You will be routed to the login screen.

- **Default Email:** `admin@admin.com`
- **Default Password:** `password`

“ **Immediate Post-Install Action:** Upon successful login, navigate to the administrator profile in the top right corner. Select **Edit Profile**, update the email address to your personal address, and change the password to a secure string to lock down the instance.