

Authentik

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Installing Authentik on CasaOS (Big Bear Template)

Overview

This article outlines the successful installation of **Authentik** on an Ubuntu server running **CasaOS** (192.168.0.152). Authentik is a complex application consisting of four separate containers that must communicate over a shared internal network.

1. Pre-Installation Cleanup

To prevent database corruption or "ghost" network conflicts, start with a clean environment.

- **Remove Existing Apps:** Uninstall any previous Authentik or Postgres attempts via the CasaOS dashboard.
- **Clear AppData:** Use the Files app to delete the `AppData/big-bear-authentik` folder.
- **Prune Ghost Networks:** If an installation fails with a "Label" or "Network" error, use a terminal to run:

```
docker network prune
```

(Enter 'y' when prompted to remove unused custom networks.)

2. Installation via Big Bear App Store

Navigate to the App Store in CasaOS and select **Authentik** from the Big Bear repository. Before clicking "Install," you must adjust the settings for all four components.

A. Component: big-bear-authentik (Server)

- **Network:** Select `big-bear-authentik` (or the longest available big-bear network name).
- **Ports:** Add a new port mapping:
 - **Host:** 9000
 - **Container:** 9000

- **Protocol:** TCP
- **Web UI:** Ensure the URL is set to `http://[IP]:9000`.

B. Components: DB, Redis, and Worker

Navigate to the tabs for `big-bear-authentik-db`, `big-bear-authentik-redis`, and `big-bear-authentik-worker`.

- **Crucial Step:** Change the **Network** on every single tab to match the one selected for the Server (`big-bear-authentik`).
- **Internal Communication:** Do **not** map host ports for the DB or Redis; they communicate internally over the shared bridge network.

3. Post-Installation & Troubleshooting

The "Authentik Starting" Screen

Upon first boot, the server will display a black screen stating "authentik starting."

- **Cause:** The server is running initial database migrations and building internal tables.
- **Action:** Wait **3-5 minutes**. Do not restart the containers during this phase.

Database "Unhealthy" Status

If the DB is marked unhealthy, it is usually due to a password mismatch in the environment variables.

- **Fix:** Ensure `POSTGRES_PASSWORD` in the DB tab matches the `AUTHENTIK_POSTGRES__PASSWORD` in both the Server and Worker tabs.

4. Initial Admin Account Setup

Authentik does not ship with a default password for the `akadmin` user. You must trigger the initial setup flow.

1. Navigate to: `http://192.168.0.152:9000/if/flow/initial-setup/`
2. Set a strong master password for the **akadmin** account.
3. Log in at the standard portal using:
 - **Username:** akadmin
 - **Password:** (The one you just created)

Summary of "What Worked"

Requirement	Value / Selection
Shared Network	big-bear-authentik (Set on all 4 tabs)
Primary Port	9000 (Mapped for HTTP access)
Worker Command	worker
Setup URL	/if/flow/initial-setup/

Linking Authentik SSO to Nextcloud (OIDC)

Purpose: This guide outlines the steps to enable Single Sign-On (SSO) for Nextcloud using Authentik via the OpenID Connect (OIDC) protocol. This allows users to log in to Nextcloud using their central Authentik credentials.

Prerequisites

- A working **Authentik** instance (e.g., `auth.goonersnas.com`).
 - A working **Nextcloud** instance (e.g., `nc.goonersnas.com`).
 - Administrator access to both platforms.
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Step 1: Create the Authentik Provider

The Provider acts as the authentication engine for the handshake.

1. Navigate to **Applications > Providers** in the Authentik Admin interface.
2. Click **Create** and select **OAuth2/OpenID Provider**.

3. Set the following values:

Field	Value
Name	Nextcloud
Authentication flow	default-authentication-flow
Authorization flow	default-provider-authorization-implicit-consent
Client Type	Confidential

4. In the **Redirect URIs** section, add the following (adjust domain as needed):

```
https://nc.goonersnas.com/index.php/apps/sociallogin/custom_oidc/authentik
```

Click **Finish** and then copy your **Client ID** and **Client Secret** from the provider details page.

Step 2: Create the Authentik Application

The Application links the Provider to a user-facing icon.

1. Navigate to **Applications > Applications**.
 2. Click **Create**.
 3. **Name:** Nextcloud | **Slug:** nextcloud
 4. **Provider:** Select the "Nextcloud" provider created in Step 1.
 5. Click **Finish**.
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Step 3: Configure Nextcloud Social Login

Install the **Social Login** app from the Nextcloud App Store, then navigate to **Settings > Administration > Social login**.

3.1 General Settings

Check the following boxes at the top of the page:

- **Uncheck:** "Disable auto-create new users" (to allow SSO to create accounts).
- **Check:** "Allow users to connect social logins with their account".
- **Check:** "Update user profile every login".

3.2 Custom OpenID Connect

Click the + button under Custom OpenID Connect and fill in the following:

Nextcloud Field	Authentik URL Path
Internal name	authentik
Authorize URL	https://auth.goonersnas.com/application/o/authorize/
Token URL	https://auth.goonersnas.com/application/o/token/
User info URL	https://auth.goonersnas.com/application/o/userinfo/
Scope	openid profile email

Important: Ensure there are no leading or trailing spaces in the Client ID or Client Secret fields.

Step 4: Final Testing

1. Open an **Incognito Window**.
2. Navigate to your Nextcloud URL.

3. Click the large **Authentik** button at the bottom of the login form.
4. Log in with your Authentik credentials.

Success! If redirected to your Nextcloud dashboard, the SSO link is active. New users created in Authentik will now automatically have Nextcloud accounts provisioned on their first login.