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Cool SHIT you can do with DOCKER (for your home lab)

Link: https://levelup.gitconnected.com/cool-shit-you-can-do-with-docker-for-your-home-lab-af857dfc206d

·Oct 27, 2024

Docker is the most revolutionary tech when it comes to containerization. Mainly because it’s fast and ensures that the app runs flawlessly in differents environments with zero configurations (or minimal configuration depending on the needs).

In this blog we are going to discuss the different ways you can use docker for your homelab.

> Reader Note: This blog is arranged in the sequence of more commonly used to more advanced and interesting things you can do with docker.

What is a homelab?

If you are new to concept of the homelab then to explain it simply it just a server running on your private network (you can also assign a domain to it) to host services like pihole, ad guard (both of which blocks ads), nextcloud (to host your own cloud server), jellyfin (to create your own youtube or media server) et cetera. Most of these will be discussed in this blog. So LET’S get right into it:

Downloading Docker:

Obviously you have to install docker for doing any of the below

1. Choose Your Operating System:

- Docker supports Windows, macOS, and Linux. Visit the official Docker website (https://www.docker.com/) to select your OS.

2. Download the Installer:

- Click the “Get Started” button and follow the on-screen instructions to download the appropriate installer for your system.

3. Run the Installer:

- Double-click the downloaded installer file and follow the prompts to install Docker.
- **Note:** On Windows, you might need to restart your computer after installation.

4. Verify Installation:

- Open a terminal or command prompt and type `docker --version`. If Docker is installed correctly, you should see the installed Docker version.

Additional Considerations:

- **Docker Desktop:** For Windows and macOS, you might be prompted to install Docker Desktop, which includes Docker Engine, Docker Compose, and Kubernetes.
- **WSL2 (Windows Subsystem for Linux):** On Windows, you might need to enable WSL2 for optimal performance.
- **Rootless Mode:** For added security, consider using rootless mode, which allows you to run Docker without root privileges.

Remember: Always refer to the official Docker documentation for the most up-to-date instructions and troubleshooting tips.

> **Reader Note: All of these can be done with your personal that you use everyday however it is more recommended that you use a seperate pc (it can be your old potato pc or an old laptop) or a raspberry pi if you have one.**

Extra Resources:

One last thing before getting into the cool stuff is that you should be familar with linux file system and docker (click on them to go to the linked videos)

1. Nextcloud | you personal Google drive:

I have seen people who use google drive or google photos to store their memories and important work which eventually run out storage. When that happens you only have two choices either delete some of your data or pay for extra storage. This is where **nextcloud** comes in.

Nextcloud is like google workspace but self hosted and opensource. It has the following features:

- Nextcloud
- High performance backend for Nextcloud Files
- Nextcloud Office (optional)
- High performance backend for Nextcloud Talk and TURN-server (optional)
- Nextcloud Talk Recording-server (optional)
- Backup solution (optional)
- Imaginary (optional, for previews of heic, heif, illustrator, pdf, svg, tiff and webp)
- ClamAV (optional, Antivirus backend for Nextcloud)
- Fulltextsearch (optional)
- Whiteboard (optional)
- Docker Socket Proxy (optional)

If you do the math the ***“Basic”*** google subscriptions costs “***1.99$”*** which is about ***20$*** yearly and with that amount of money you can get a new ***1 terabyte hard disk (****it may cost more but it will definately pay off in a year or two****)***

You can find the download guides it here or if you are a dumbass like me here is a video for you.

2. jellyfin | your own media server:

Let's say you have a lot memories and movies ***(pirated, hope I'm not the only one!)*** and you want to access from anywhere in the world (or your home network) without pluging a USB in the back of your TV then you can use jellyfin.

You can find the instructions (to download and use it) here.

Or if you want to locally on your windows or mac machine (with no involvemnet of docker) you can view the instructions here.

> Reader Note: Ususally there are two versions of docker images one by linux server (which I highly recomend you to visist for more cool stuff) and other is officially by the creaters themselver however the configuration of linux server docker images are different.

3. Affine or obsidain | host your own notetaking app:

Ever wished that you had access to your notes form anywhere without paying a scent while also not giving your data to a '***sus'*** company which uses that data to ***make money (by selling it)*** and give personalized ads and also train some ***AI model*** (to all the programmer write bad open sourse code to poison the AI models' training).

Then ***Hosting*** your very ***own*** note taking app is the best option. This is useful because if you are a perosn like me who uses multiple devices then you can access that (note taking) app from your browser.

Two of the most popular open source note taking app are affine (basically notion but open source) and obsidian (which stores notes in markdown).

Both of these have pros and cons like obsidian has a learning curve while affine is easy to use (almost like notion at this point). Affine stores data in a database while obisidian stores data on you pc in markdown file (which is easier to backup and setup).

Here are some video tutorials to help you get started with obsidain:
https://youtu.be/cBzc5r-FNW0

A video on how to get started with obisidan

4. Locally Hosted AI models

Lets say that you have no internet or chat gpt is not currently up and running (mainly due to high demand) and you despirately need it. Then running an AI model locally on your computer is the best option. If you didn't knew that was possible then you'll have a working proof of this after reading this.

> Reader Note: Although it will work on windows it is recommended that you run it on a linux OS like debian or ubuntu or wsl linux (use **kali linux** with kex for a **GOAT**ed wsl linux experience but not for this **AI hosting stuff**).

So what you need to do is go to this github repo and run the docker compose file (shout out to @WolfgangsChannel on youtube who made it)

To integrate it with your code editor you can use use the continue plugin (click to see the full docs).

If you want a video tutorial then here is a video by @WolfgangsChannel and here is a video by Network Chuck

5. Pi-hole | block ads and speed up internet

Some people don't have access to very fast internet. To increase your internet speed there are only three ways

1. Change the DNS server

2. Contact your ISP and upgrade it
3. Use an ad blocker

But the problem with ad blockers is that most websites have ad blocker blocker that prevent you from using it.

So to solve this problem there is Pihole. How it works is that it acts like a DNS server but blocks all the ad sites and trackers making browsing on the internet much smooth. Also you can block websites with it.

> Reader Note: A DNS server is recomended to run all time so you should definately install pi hole on a Raspberry Pi (mainly because it consumes less power) or any other machine that is ON 24/7.

6. Run virtual machines (I’m not joking)

It justs runs virtual machine that you can access over your private network. That’s all what it is. Here is a link to a kali linux docker image. Personallt I find the idea of accessing virtual machine from any device on the private network to be quite cool □□.

7. Libre Office | microsoft office but Open Sourse

Microsoft office is expensive and not every one can afford it. There are some online alternatives like google docs or google sheet but they along with other harvest our data. So to solve this porblem we have libreoffice. Its a grate alternative to microsoft office.

Reader Note: There is another version of libre office that runs on the machine with no need of docker. If you want it click here.

8. Danger Zone

Danger Zone is software that scans file for viruses in a sandbox (can’t interact with the out side). This is useful if you want to open a pdf (becuase you are curious) but also don’t want your computer to get infected. Click here to view the guides.

> Reader Note: When you click download danger zone for windows it will download a msi file and you have to run it and it will install in docker (I’m telling this so you don’t get confused)

Thats it for today guys hope you like it. It took a lot of effort and back and forth to write it. If you have any questions leave them in the comments and please follow for more content like this.

Creating my first home server

Link: https://medium.com/@tararhoseyn/creating-my-first-home-server-2104cc610514

As someone who works in software and product, I've been learning more about the hardware/infrastructure side of computing in recent months. Even if the knowledge doesn't *directly* impact my day-to-day, I think having a decent understanding of general computing is a helpful skill set to have in my line of work.

I decided that a good place to explore would be to try to make a budget-friendly server for my home.

My first thought was to use a Raspberry Pi Zero 2 W as a Pi-hole server. This did technically work, but it was slow, clunky, and couldn't really run any other services. It didn't make a lot of sense to me to have an entire machine (even one as small as a Pi Zero) for just one service.

I then looked at a broken laptop I had laying around, an old HP notebook g5 250 with an i5 inside. I hadn't used it in years for a couple of reasons: the battery died, the second replacement battery died and the hard drive died. It wasn't looking too healthy. But if I could get it up and running, it would be a perfect low-energy server to run multiple services on. So I set about to fix it!

Fixing the laptop

Replacing the hard drive

Luckily for me, I had another dead laptop around, an Acer V5 (I live in a graveyard of tech I can't bring myself to throw away, I'm sorry). I managed to pull the old 2.5" SATA drive out of the Acer and popped it into the HP. This ended up bringing another use case into my server build... I found a bunch of old films on the drive, backed them up, and will use them in my server build (more on this later!)

Replacing Windows with Ubuntu

This is going to be a controversial take... The drive I popped into the HP had Windows 8. Now, I could have updated the Windows operating system (OS) or kept version 8, but I wanted a lightweight OS for a laptop that had aging hardware and only a 750GB hard drive. Especially as one hard drive is used as both storage and as an OS boot. So I decided to go down the Linux route. I chose Ubuntu as it seemed like a good beginner's choice as I've not used Linux before.

It was a simple process. I downloaded the ISO file for Ubuntu, flashed it to a USB drive using Rufus, popped the USB drive into the laptop, booted into BIOS on the laptop, and installed the OS.

The techy folks among you may wonder why I went for Ubuntu Desktop over Ubuntu Server if I was going down the Ubuntu route for a server anyway. The simple answer is that this is my first rodeo, and I wanted a GUI for ease of setup and maintenance. I once learnt a valuable acronym from one of my software engineering lecturers and often repeat it to myself: KISS. Keep it simple, stupid.

Scrapping the battery altogether

This is a bit of a risky move, but replacing the battery with an official HP one (I previously bought a cheap third-party battery, and it went down like a lead balloon) was out of my budget for this build. I wanted to use what I already had, and I plan to keep this server running 24/7 anyway so I just kept using power from the wall.

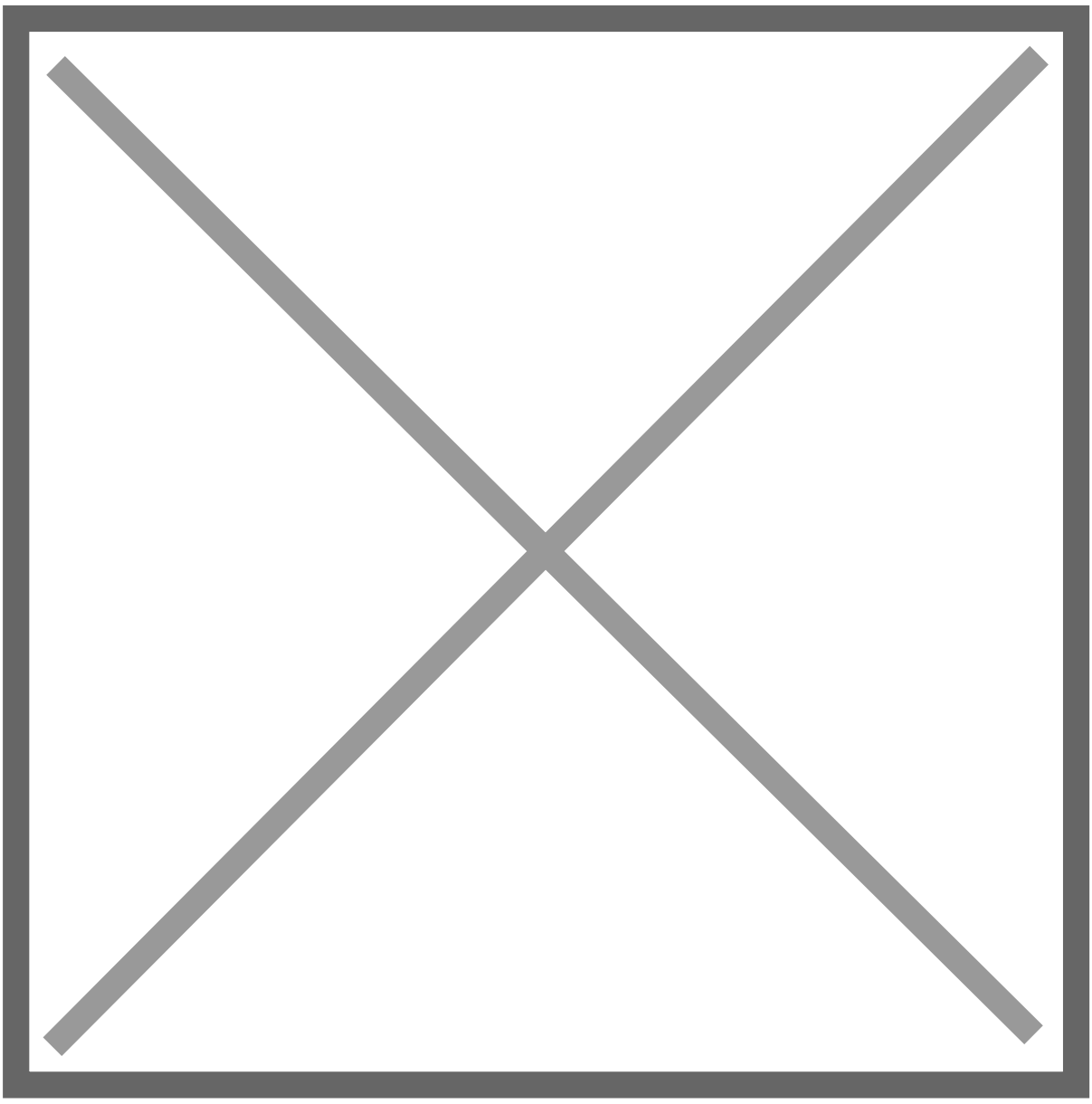
Setting up the server

When I was researching small server setups, I came across a product called a Zima Board and its GUI system, CasaOS, an open-source software that can easily run on Linux.

Casa is the perfect beginner's introduction to server management. After getting my laptop's configuration set up for 24/7 power, I installed Casa in the terminal (Side note: The ease of the terminal and its commands in Linux is super impressive compared to Windows).

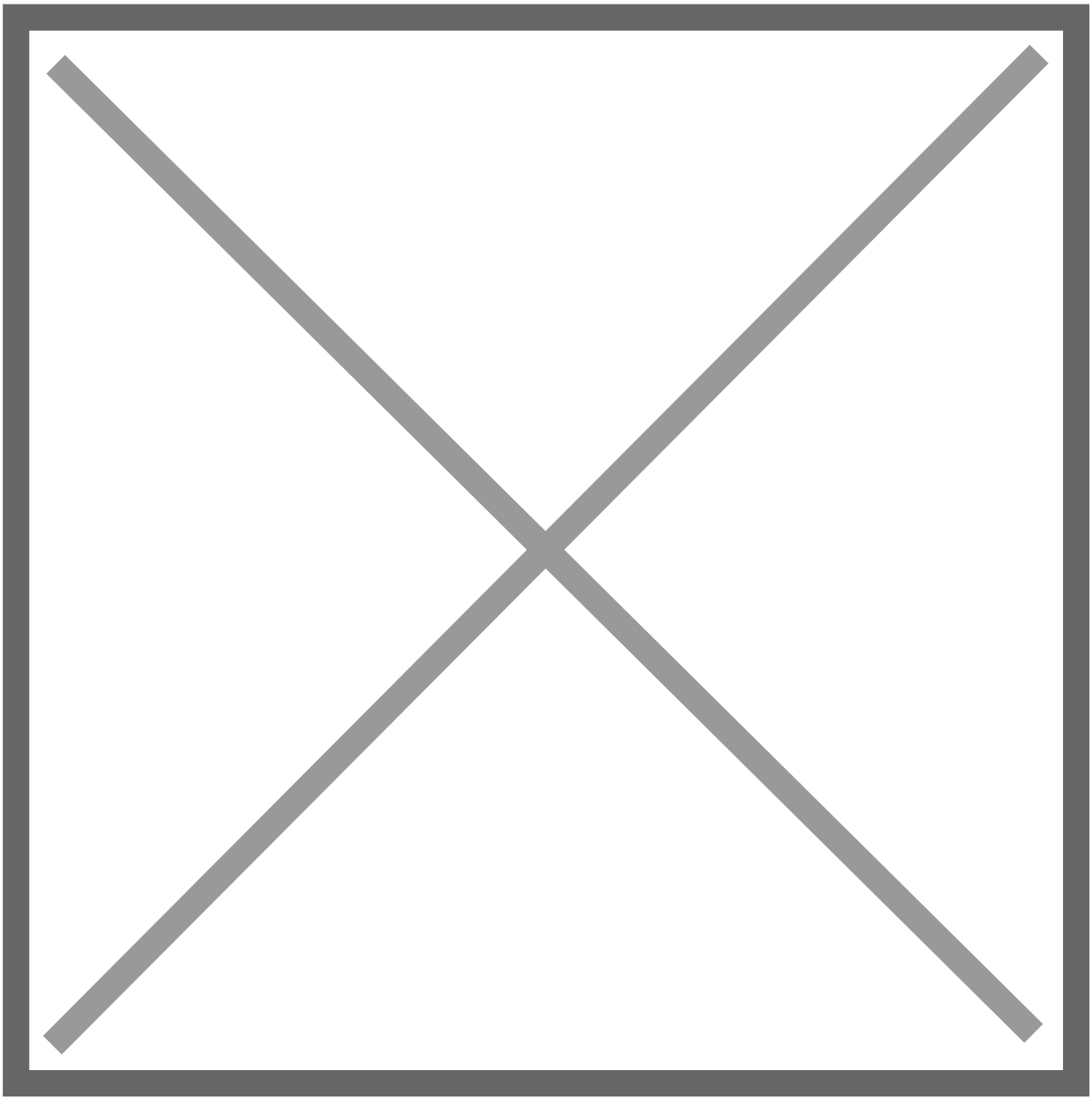
I had a bit of trouble at first as the installation of Casa is supposed to let you know at the end what IP address you can use to access it. This never came up for me in the terminal for some reason, but luckily I ended up finding the IP in my router's event log.

Now Casa was installed and running on my system, all I had to do was pick which apps to download and research others. Casa is basically a visualization of Docker containers. I've had some basic experience with Docker before, and I love how lightweight and simple it is to run services through. Casa makes it even easier.



My server dashboard

I also appreciate how sleek and beginner-friendly the dashboard of Casa is. And because it's hosted on its own IP, I can access the dashboard (and by extension, all the services running on the server) on any device in my home connected to the internet. Once I set up the system, I accessed the IP on my smart TV and did the rest of the setup from the comfort of my sofa!



My dashboard server on my lounge TV

What services I’m running

- **Pi-hole** — a network-wide ad blocker.
- **Jellyfin** — a media player that offers a Netflix-like experience for your own media files. This has been an absolute game-changer for those old film files I had on the hard drive. I’m really pleased I can use this system as a media server through this service.
- **qBittorent** — for torrenting files.
- **Wireguard** — this is a VPN protocol, but I’ve had trouble with its configuration so I need to give this another shot.

Future improvements

- Definitely reconfigure/find an alternative to Wireguard.
- I’m stuck between increasing the storage on this device or getting a separate NAS for storage.
- Exploring the world of Docker more. While Casa comes with a bunch of ‘apps’ that easily set up Docker containers for you, you can do custom installs of any Docker services too.
- I’d love to host a website on the server.

Links de sites e videos de aplicativos open source

Link: (264) Testei 17 Apps de Terminal Linux, esses são os melhores - YouTube

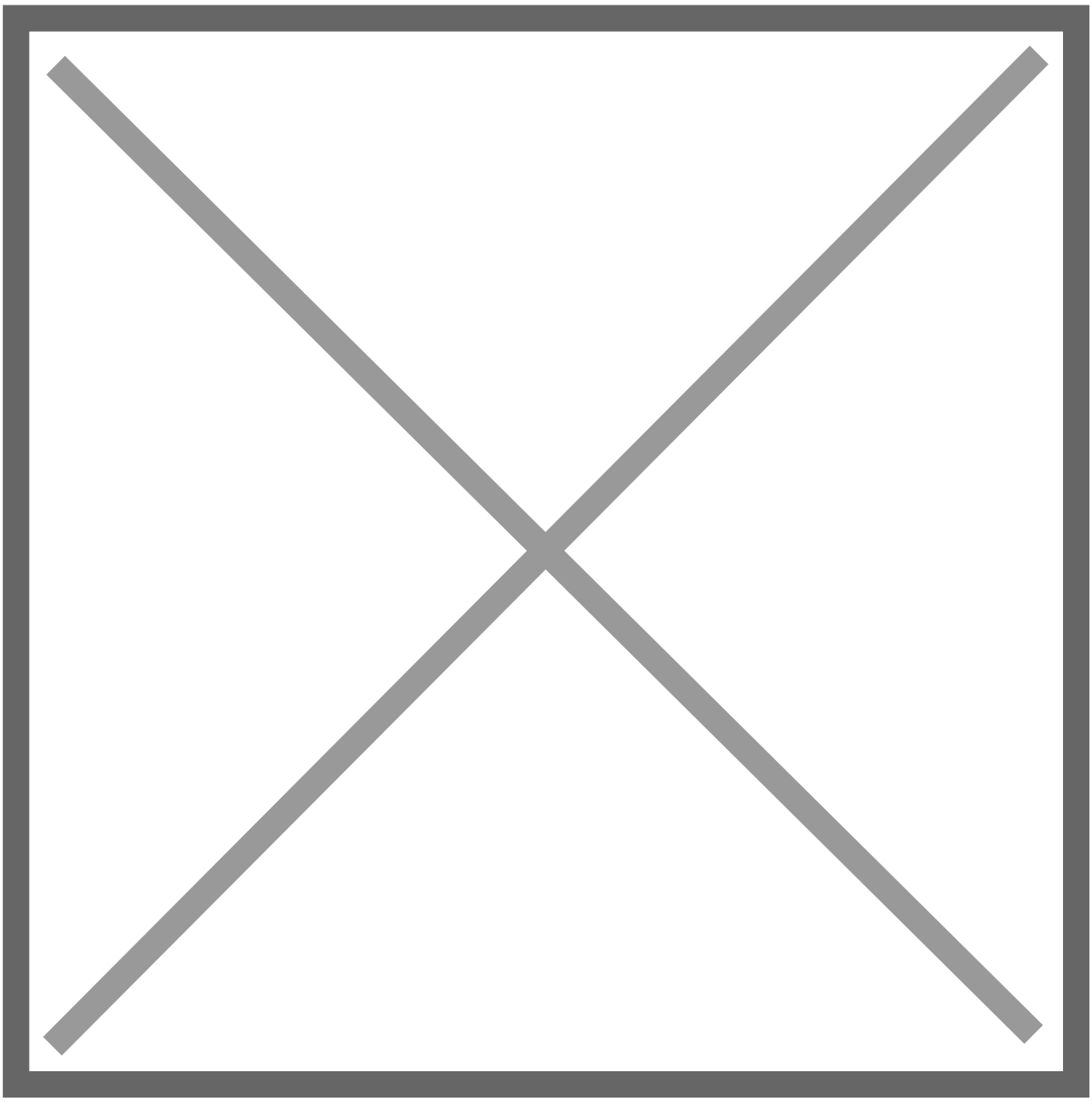
Logos e icones - https://logosear.ch/search.html?q=jitsi

Links de aplicativos open source

Top 11 Open-Source Admin Dashboard Projects on GitHub

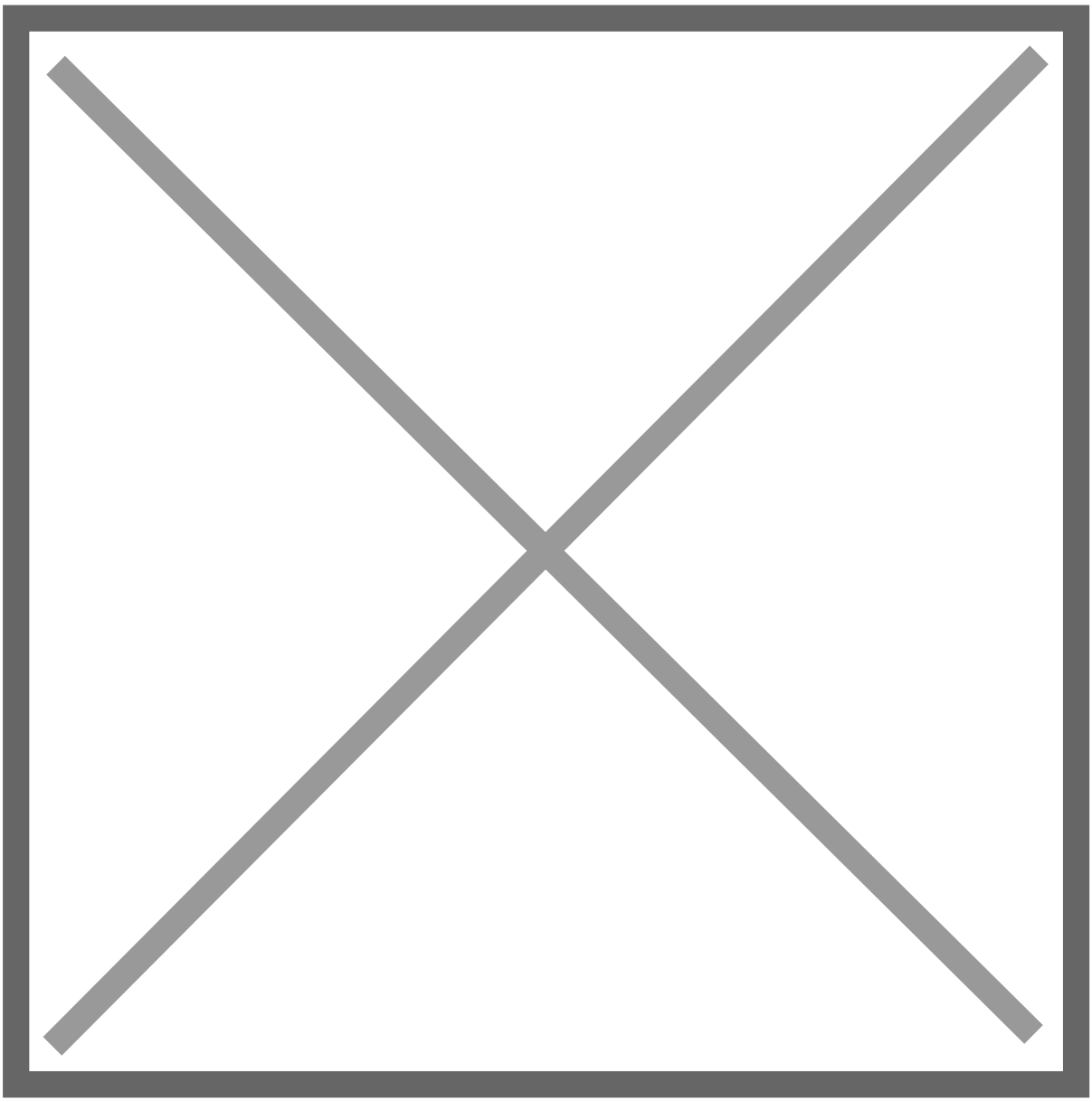
Link: https://medium.com/@nocobase/top-11-open-source-admin-dashboard-projects-on-github-e58b902ee645

Dec 27, 2024



Originally published at Top 11 Open-Source Admin Dashboard Projects on GitHub — NocoBase.

For developers managing data or handling project workflows, this article is your go-to guide! If you’re looking for an efficient and easy-to-use admin dashboard solution, you’ll find plenty of inspiration here.



Admin dashboards are pivotal in modern business operations and enterprise management. They provide an intuitive interface for real-time data tracking, process management, and workflow simplification. A great admin dashboard can boost efficiency, enhance decision-making, and cut development costs.

Key features of an ideal admin dashboard include:

- Intuitive User Interface: Designed to be straightforward and easy for non-technical users.
- Customizability: Allows users to tailor modules and features to specific business requirements.
- Powerful Data Visualization: Equipped with versatile charting and analytics tools to present data effectively.
- Scalability: Supports seamless integration with third-party plugins and services.

Open-source admin dashboards offer rapid solutions for building management interfaces, combined with transparent code and vibrant community-driven improvements.

Benefits of open-source admin dashboards:

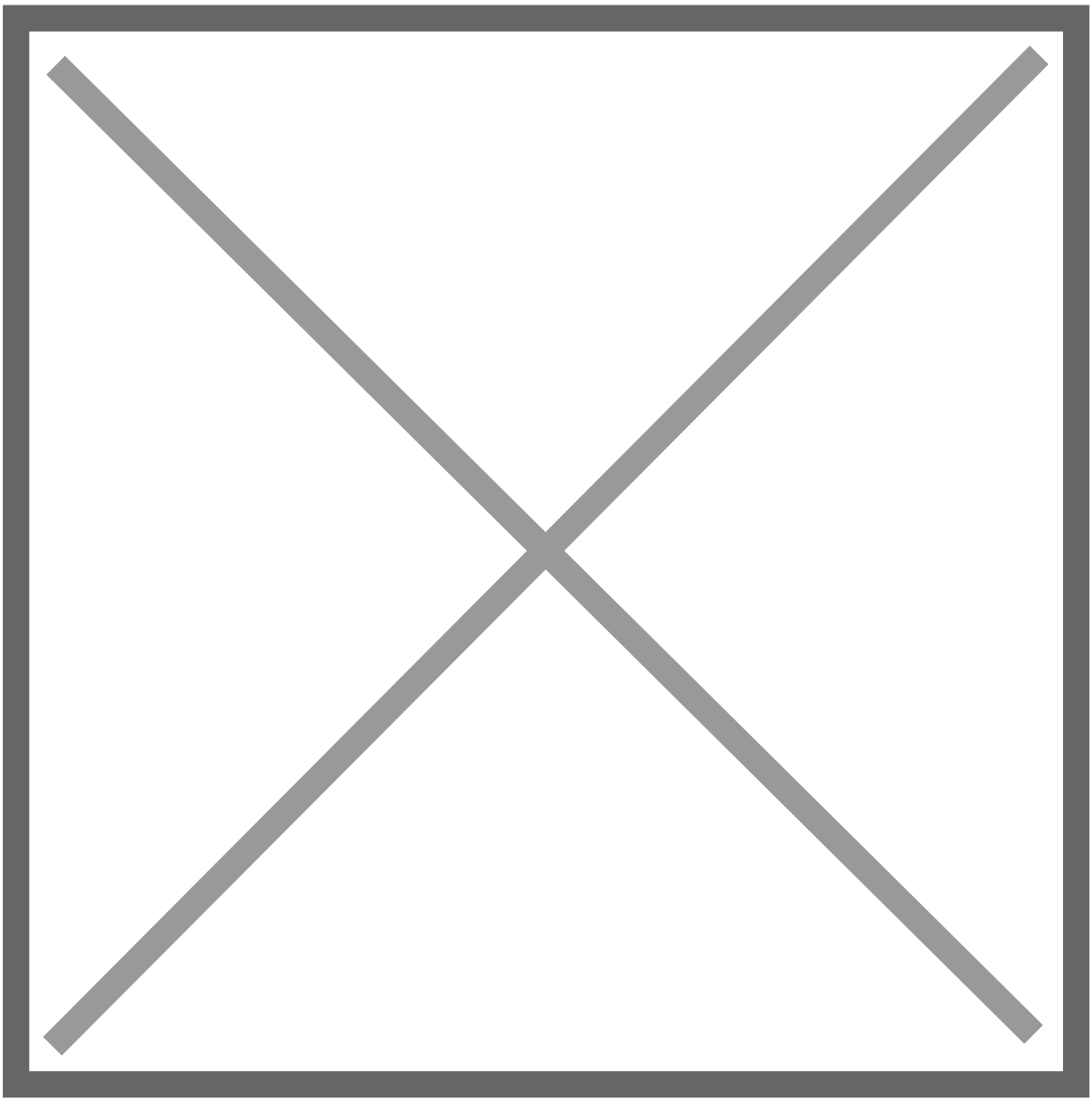
- Flexibility: Fully customizable functionalities and designs to suit unique project needs.
- Cost Savings: Free to use without licensing fees, significantly lowering development expenses.
- Community Backing: Extensive documentation, active support, and a rich plugin ecosystem maintained by global developers.

To make your search easier, we've curated the top 11 most popular admin dashboard projects on GitHub. Explore these tools and find the one that suits your needs best! Rankings are based on: https://github.com/topics/admin-dashboard

#11: NocoBase

 Stars: 13k

GitHub Link:https://github.com/nocobase/nocobase



NocoBase is a versatile open-source no-code development platform, perfectly suited for building flexible and scalable admin dashboards. Centered around a data model-driven approach, it allows users to construct complex data structures with ease while integrating advanced permission management and workflow automation tools. This empowers developers to efficiently create robust, user-friendly management systems for a wide range of applications.

Why Choose NocoBase for Admin Dashboards?

- Flexible Data Modeling: Effortlessly create complex data structures tailored to your business needs.
- Visual Page Builder: Drag-and-drop components using an intuitive WYSIWYG editor to quickly design layouts and functionality.
- Extensible with Plugins: Add features easily via plugins, enabling seamless customization without modifying the core system.
- Advanced Permission Management: Multi-tiered access controls ensure security and precise user permissions.

- Automated Workflows: Simplify and streamline processes with a powerful visual workflow engine for automation and collaboration.

Who Should Use It?

NocoBase excels at creating admin dashboards that integrate data from multiple sources for dynamic management and visualization. With its plugin-based architecture, it supports integration with databases, third-party APIs, or local files, creating a unified platform for streamlined operations.

For instance, an organization can use NocoBase to consolidate financial, sales, and inventory data, presenting it all on a single dashboard for centralized management and real-time insights. This dramatically improves efficiency and ensures transparency across departments.

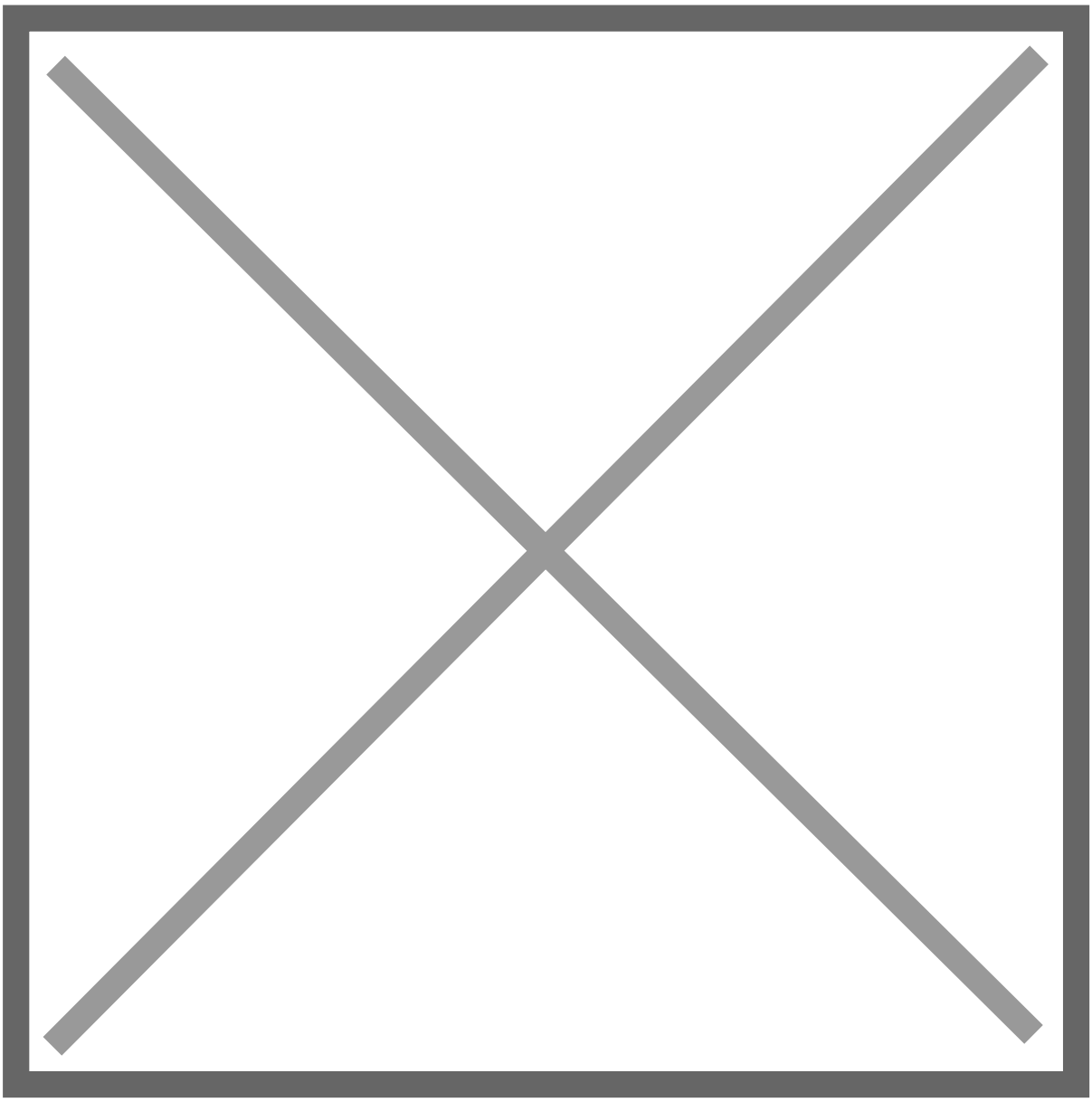
Whether it's a dynamic monitoring dashboard or a collaborative management interface for cross-departmental workflows, NocoBase's modular and customizable design makes it an ideal choice for businesses looking for scalability and ease of use.

Further Reading: Simplified Architecture Governance: Building an Application Catalog with NocoBase

#10: APITable

Stars: 13.5k

GitHub Link:https://github.com/apitable/apitable



APITable is an innovative open-source tool that combines the functionality of spreadsheets and databases, making it ideal for creating flexible admin dashboards. It simplifies complex data management and enhances collaboration through powerful API integrations.

Why Choose APITable for Admin Dashboards?

- Spreadsheet-Like Ease of Use: Enjoy the familiarity of a spreadsheet interface while leveraging advanced database capabilities for seamless data handling.
- Dynamic API Integrations: Connect effortlessly to third-party tools and data sources to build interactive, data-driven dashboards.
- Multiple Views: Switch between table view, kanban boards, and Gantt charts to adapt to diverse project needs.
- Real-Time Collaboration: Collaborate with your team in real-time, ensuring synchronized updates and streamlined workflows.
- Secure Access Control: Customize permissions to maintain secure and efficient data access for team members.

Who Should Use It?

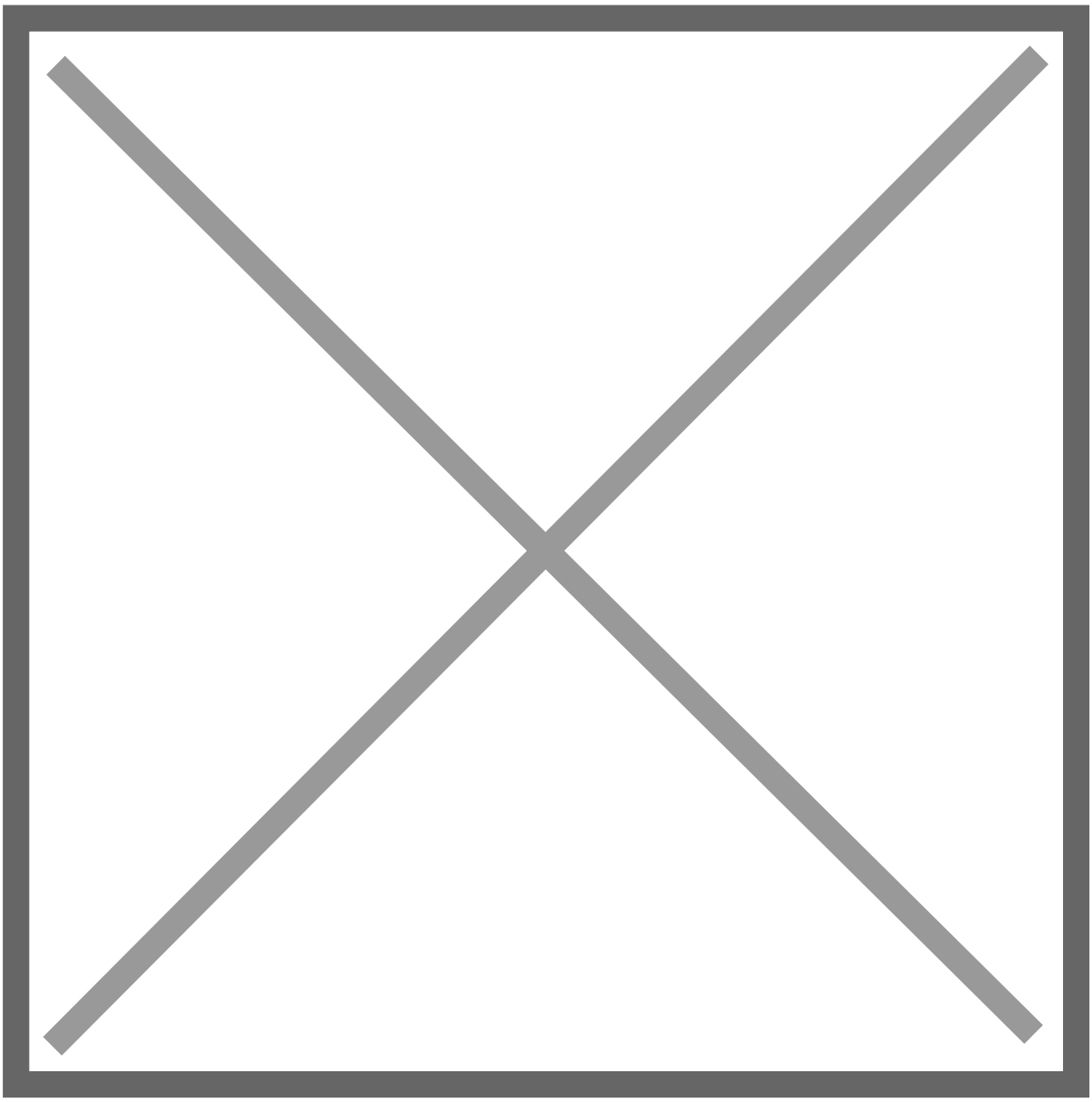
APITable is perfect for teams that rely on spreadsheets for managing data but need enhanced visualization and integration capabilities. Its multi-view support and seamless API connections allow teams to manage and display complex data intuitively.

For instance, a project team can centralize task tracking, time management, and communication tools into APITable. They can then use Gantt charts or kanban boards to monitor progress and streamline task allocation. APITable's versatility makes it an excellent choice for creating user-friendly and collaborative admin dashboards.

#9: Vue-Admin-Better

 Stars: 17.1k

GitHub Link:https://github.com/zxwk1998/vue-admin-better



Vue-Admin-Better is a feature-packed open-source admin dashboard solution built with Vue3 and Element-Plus. Designed for rapid development, it is especially suited for small to medium-sized projects focused on Chinese-speaking users.

Why Choose Vue-Admin-Better for Admin Dashboards?

- Modern Tech Stack: Powered by Vue3 and Element-Plus, offering a lightweight, reactive, and modular development environment.
- Customizable Layouts: Choose from multiple pre-configured layouts to tailor the interface to your specific needs.
- Pre-Built Modules: Includes ready-to-use features like user management and role-based permissions, reducing setup time.
- Role-Based Access Control: Fine-tune user permissions to align with operational requirements.
- Low-Code Page Builder: Generate pages and forms quickly with the built-in code generator, boosting productivity.

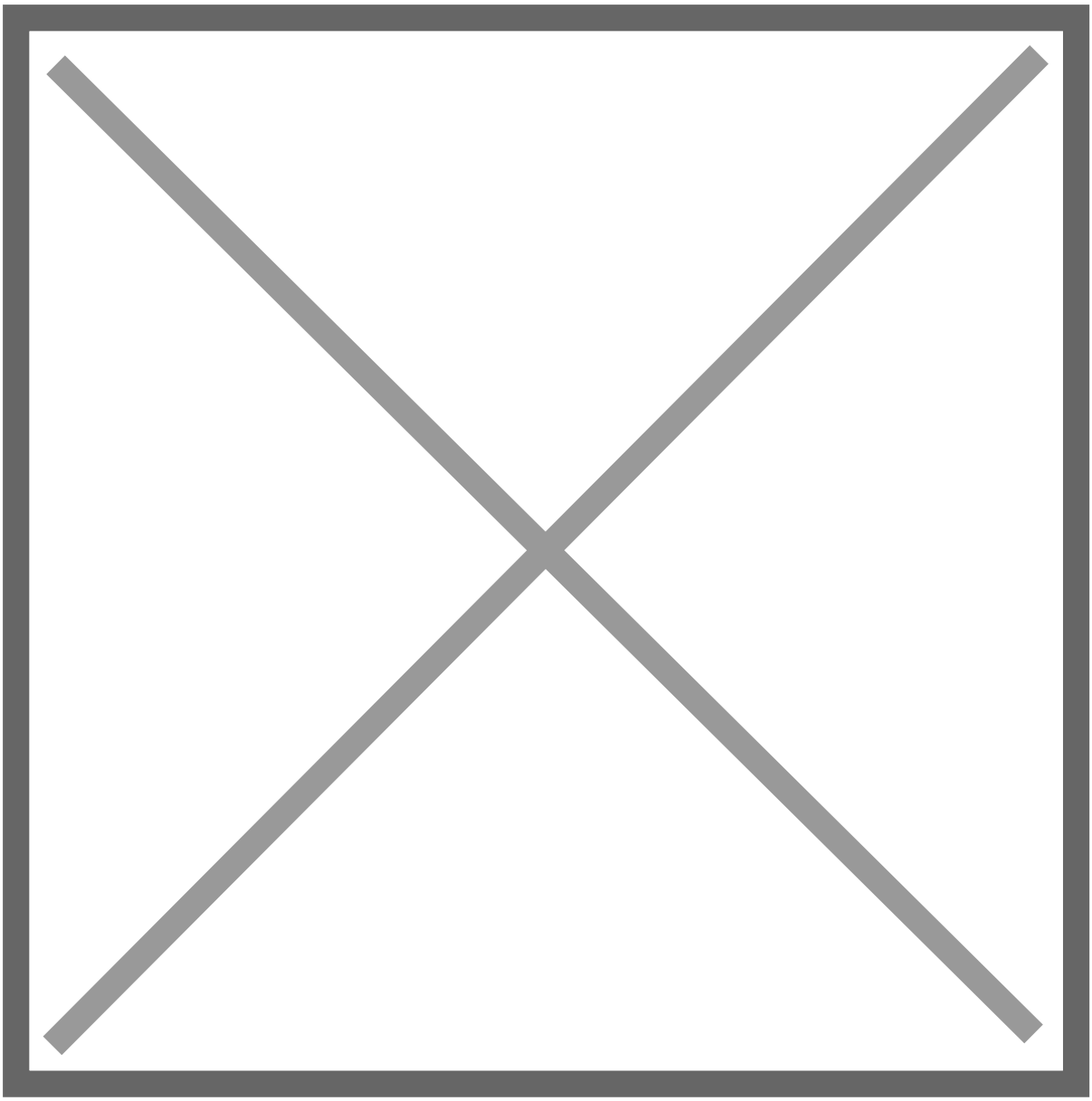
Who Should Use It?

Vue-Admin-Better is a great fit for developers working on small to medium-sized projects that prioritize speed and ease of development. Its robust pre-built modules save time, allowing teams to focus on crafting custom business logic.

#8: Gentelella

 Stars: 20k

GitHub Link:https://github.com/ColorlibHQ/gentelella



Gentelella is a reliable and versatile open-source admin dashboard template built on Bootstrap. It combines simplicity, responsive design, and a wide array of components, making it perfect for

quickly creating functional admin dashboards.

Why Choose Gentelella for Admin Dashboards?

- Bootstrap-Powered: Harnesses Bootstrap’s ecosystem for a wide selection of UI components and mobile-friendly layouts.
- Pre-Designed Components: Comes with essential elements like tables, charts, and forms, enabling faster development and reducing costs.
- Responsive by Design: Optimized for seamless performance across devices, from mobile screens to desktop monitors.
- Beginner-Friendly Codebase: Features a well-organized directory structure, making it easy to extend and adapt.
- Ready-to-Use Templates: Out-of-the-box templates accelerate development and simplify customization.

Who Should Use It?

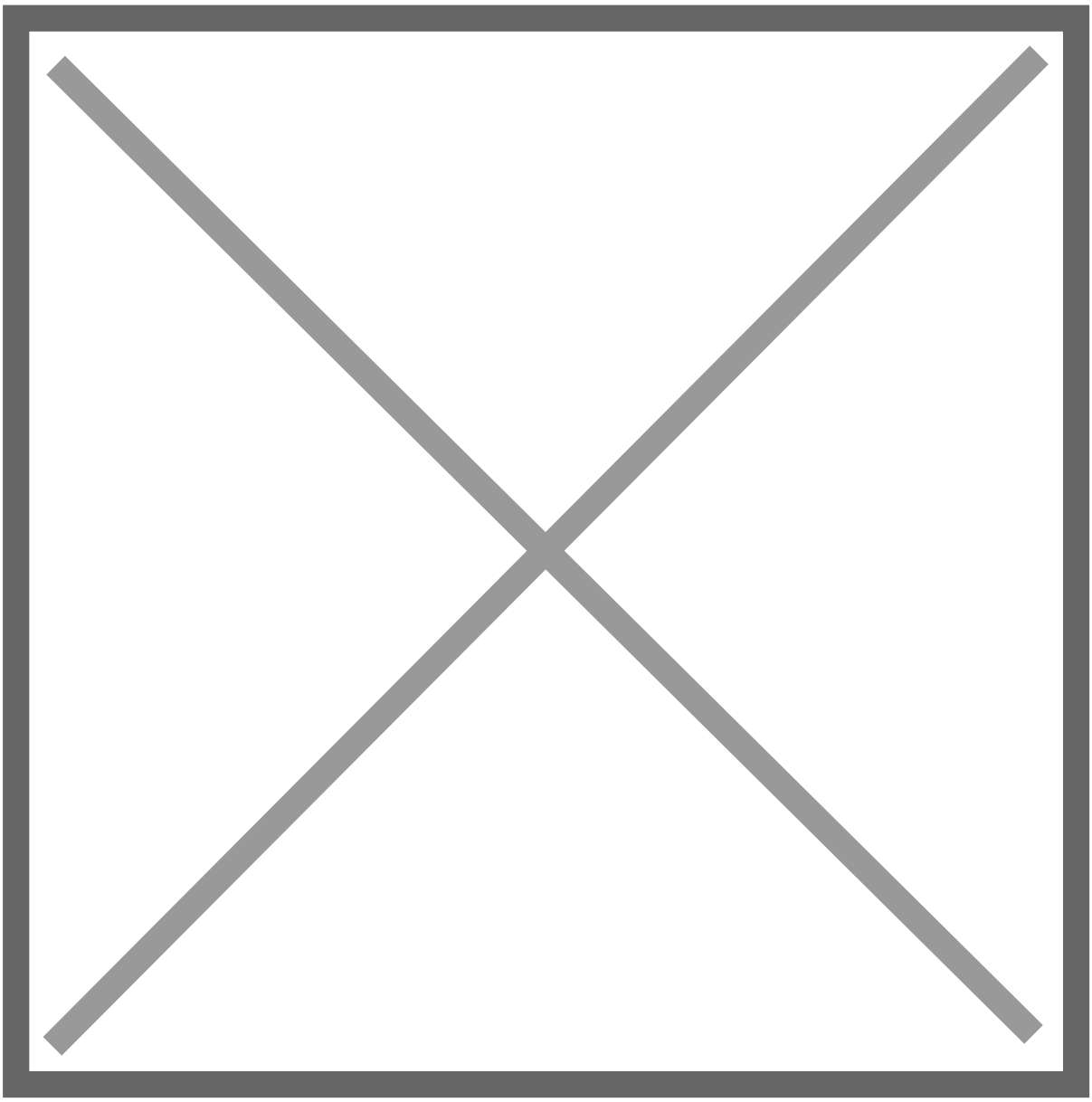
Gentelella is particularly suited for developers working with tight budgets or small teams needing basic admin dashboards. Its Bootstrap foundation ensures reliability and cross-platform compatibility, making it versatile for various projects.

For instance, an e-commerce dashboard can use Gentelella for tasks like order tracking and inventory management, while its chart components visualize sales trends or performance metrics. For more advanced business logic or highly tailored interfaces, additional development may be required.

#7: React-Admin

 Stars: 25.1k

GitHub Link: https://github.com/marmelab/react-admin



React-Admin is a powerful framework designed for building data-centric admin dashboards. Built on React, it offers unparalleled flexibility, scalability, and seamless integration with diverse data sources.

Why Choose React-Admin for Admin Dashboards?

- Component-Based Design: Leverages React’s modular architecture for flexible and efficient development.
- Seamless Data Integration: Connect to REST, GraphQL, or custom APIs via a robust data provider mechanism.
- Comprehensive Component Library: Includes tables, forms, filters, and charts for rapid deployment of essential dashboard features.
- Multilingual Support: Built-in internationalization tools make it ideal for global applications.

Who Should Use It?

React-Admin excels in projects requiring complex data management, dynamic visualizations, and integrations across multiple back-end services.

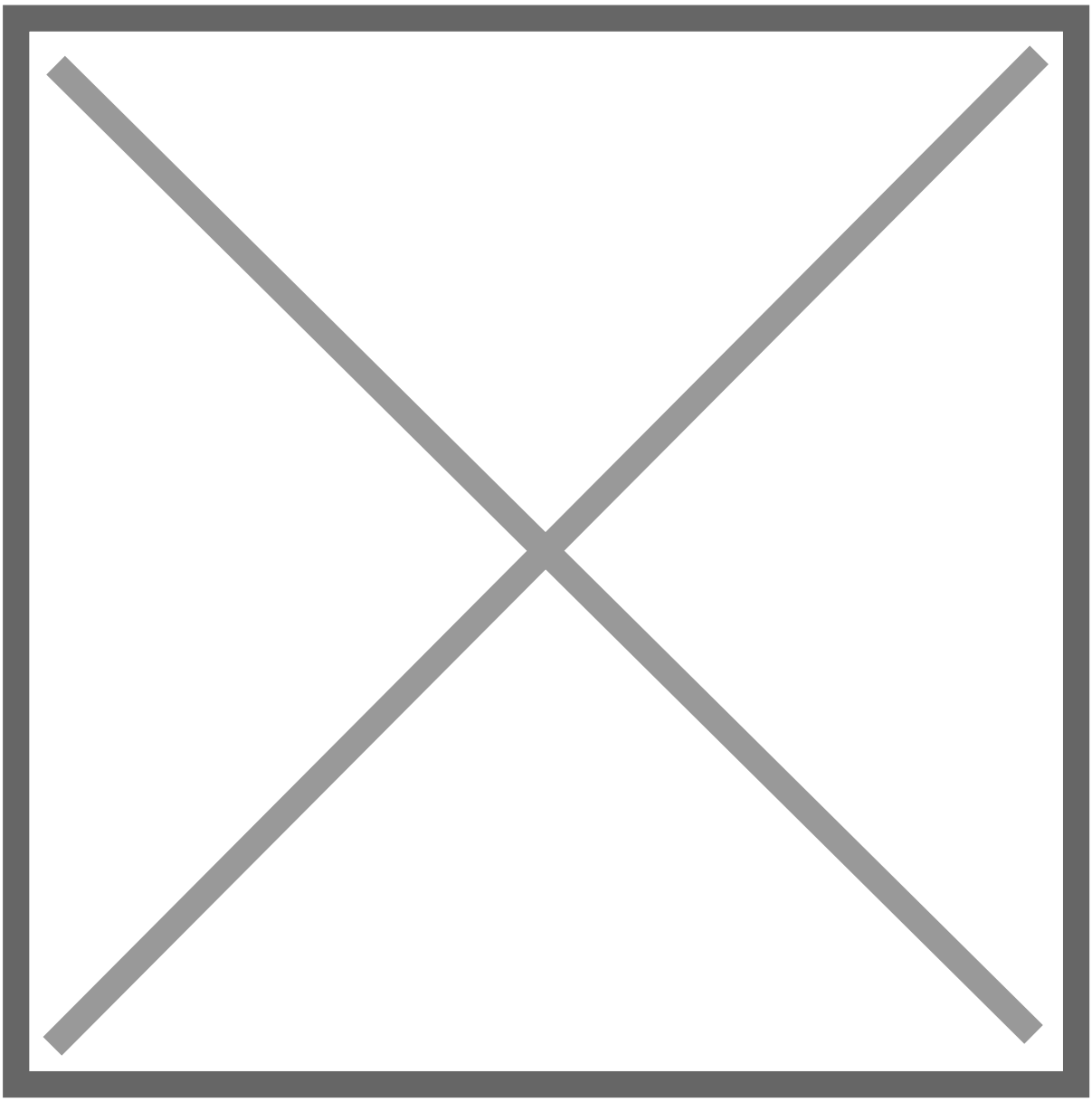
For example, an enterprise managing vast databases can deploy React-Admin to create a user-friendly interface supporting CRUD operations. Built-in visualization tools make it easy to track performance and engage with data interactively. Developers needing custom dashboards for SaaS platforms or public service portals will appreciate its adaptability and API support.

React-Admin’s powerful features and community-driven ecosystem make it one of the best tools for developing advanced, flexible admin dashboards.

#6: Ngx-admin

 Stars: 25.3k

GitHub Link:https://github.com/akveo/ngx-admin



Ngx-admin is a feature-rich open-source admin dashboard template built on Angular and the Nebular component library. With its modern design, extensive functionality, and scalability, it’s a go-to choice for creating enterprise-level management systems. Pre-built components and tools enable developers to launch projects with ease.

Why Choose Ngx-admin?

- Angular Framework: Harnesses Angular’s powerful architecture, perfect for building high-performance, large-scale dashboards.
- Nebular Component Library: Includes modern UI elements like tables, charts, forms, and cards, which are easy to customize.
- Responsive Across Devices: Delivers an optimized experience on mobile and desktop devices, adapting to various screen sizes.
- Customizable Themes: Offers multiple built-in themes and support for branding customization.

- Built-In User Management: Features pre-configured modules for login, registration, and role-based permissions, saving development time.

Who Should Use It?

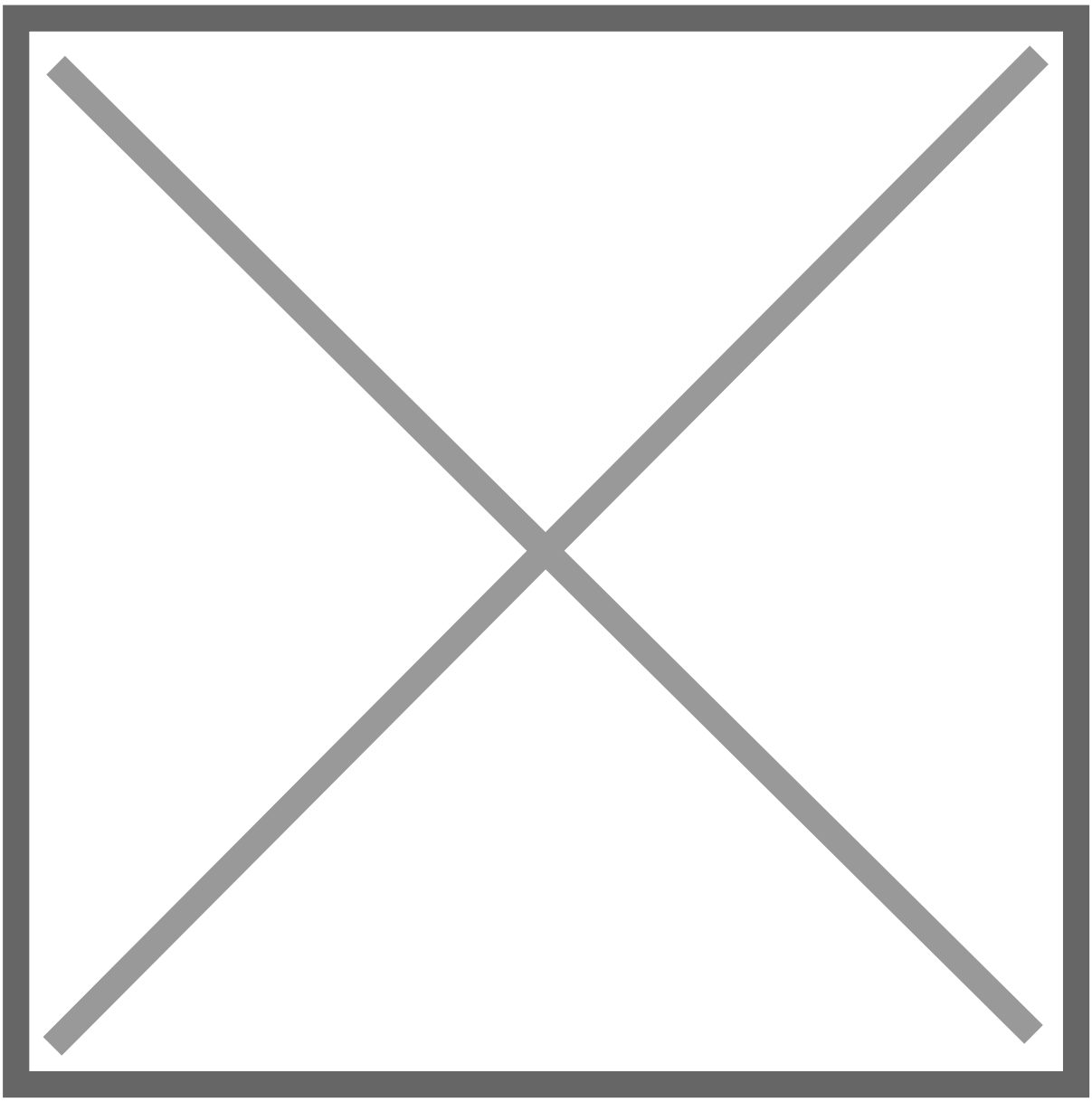
Teams leveraging Angular for development will find ngx-admin an excellent choice for creating modern dashboards. Enterprises can integrate it into HR, finance, or project tracking systems, with unified branding supported by its theming capabilities.

Its responsiveness ensures seamless mobile experiences, making it a versatile tool for SaaS platforms and complex enterprise applications.

#5: Appsmith

 Stars: 35k

GitHub Link:https://github.com/appsmithorg/appsmith



Appsmith is a low-code platform that simplifies building admin dashboards and internal tools. With a drag-and-drop UI designer, support for multiple data integrations, and strong automation features, it empowers developers to build dynamic and interactive management systems quickly.

Why Choose Appsmith?

- Visual UI Design: Build functional interfaces effortlessly with a drag-and-drop editor.
- Integrate Multiple Data Sources: Connect to REST APIs, GraphQL, or databases like MySQL and MongoDB to centralize data management.
- Rich Control Library: Access diverse UI controls such as forms, tables, and charts to handle varied requirements.
- Secure User Access: Built-in features for authentication and role-based permissions enhance data security.
- Team Collaboration: Enable real-time editing and application previews for collaborative workflows.

Who Should Use It?

Appsmith is ideal for teams needing to quickly deploy internal tools such as dashboards or inventory management systems. Its low-code environment reduces development time, while data integration capabilities streamline multi-system management.

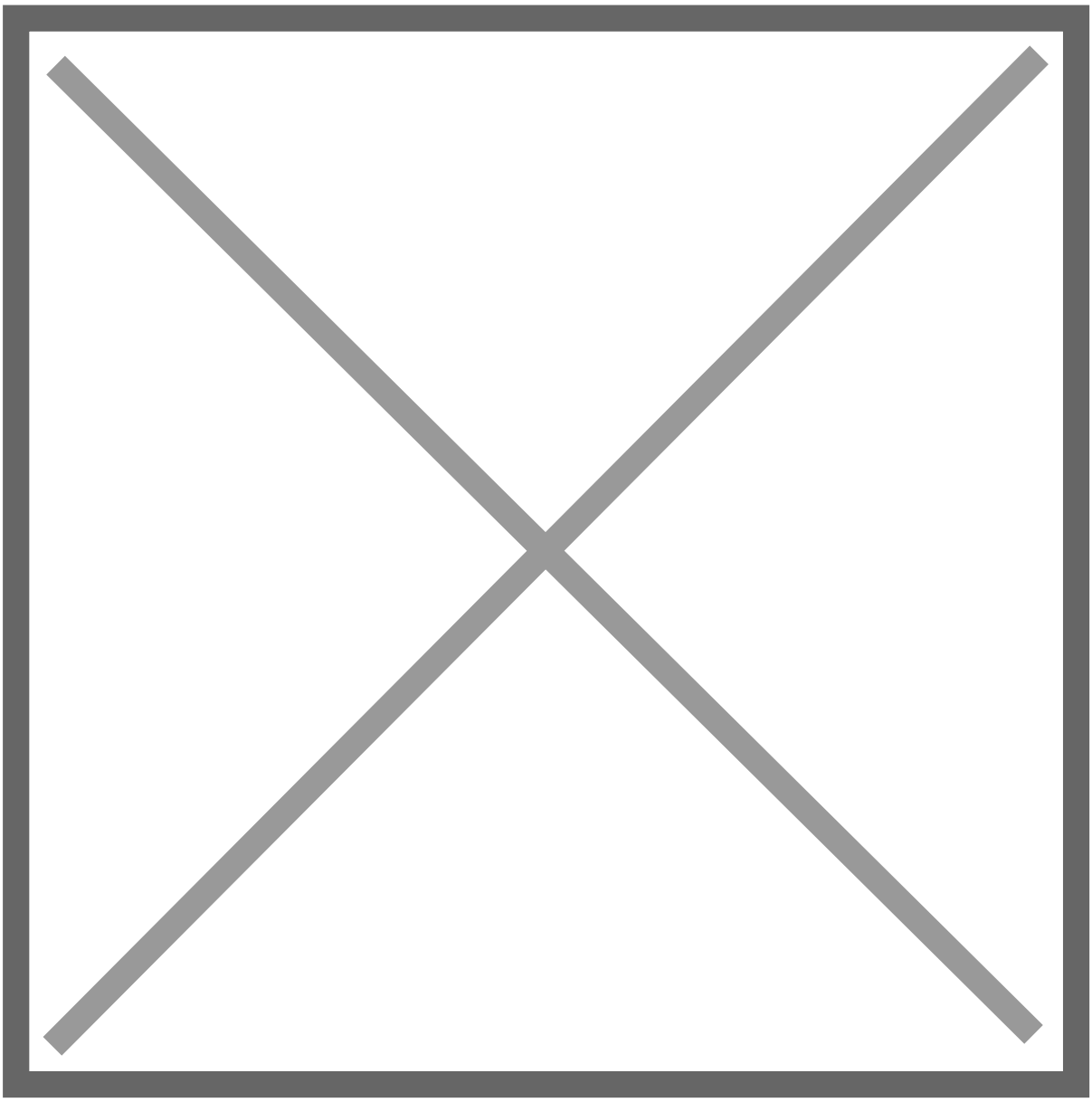
For example, a team under tight deadlines can use Appsmith to consolidate data from various APIs, building dashboards with real-time updates. While Appsmith excels in simplicity and speed, its reliance on drag-and-drop design may require additional coding for advanced customization or optimization in performance-critical projects.

Further Reading NocoBase vs. Appsmith: Which Open Source Low-Code Platform is Right for You?

#4: Tabler

Stars: 44.2k

GitHub Link:https://github.com/tabler/tabler



Tabler is a modern and lightweight open-source admin dashboard template crafted with HTML, CSS, and JavaScript. Its sleek design, simplicity, and comprehensive pre-built components make it a top choice for developers aiming to create visually appealing and functional admin interfaces quickly.

Why Choose Tabler?

- Sophisticated Design: Combines simplicity and elegance, delivering a refined user experience.
- Fully Responsive: Ensures seamless performance across devices, from mobile to desktop.
- Extensive Pre-Built Elements: Features tables, charts, forms, notifications, and other components to streamline development.
- Lightweight and Framework-Free: Requires only core front-end technologies, making it easy to implement without additional complexity.
- Quick Start with Templates: Includes pre-designed pages and templates to accelerate the development process.

Who Should Use it?

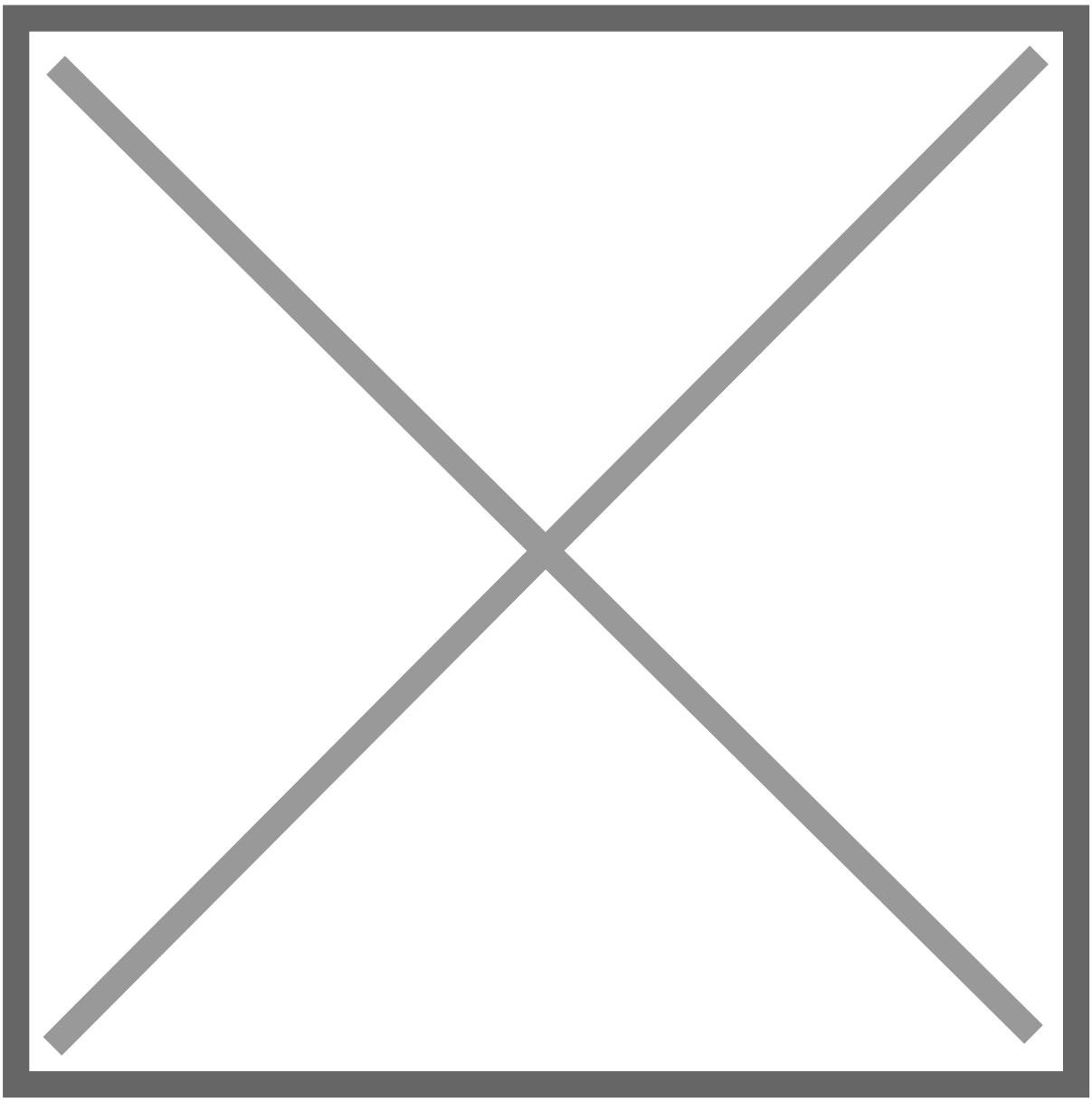
Tabler is ideal for developers who value high-quality design and simplicity in their tech stack. It’s perfect for small to medium-sized projects like data dashboards, content management systems, or lightweight operational backends.

For example, a small business looking to track sales and performance metrics can use Tabler to create a clean, functional dashboard without heavy reliance on frameworks. Its lightweight nature ensures easy integration and faster project completion.

#3: AdminLTE

 Stars: 44.2k

GitHub Link:https://github.com/ColorlibHQ/AdminLTE



AdminLTE is a trusted open-source admin dashboard template built on Bootstrap. Its robust collection of features and high customizability make it a go-to solution for developers creating dynamic and versatile backend systems.

Why Choose AdminLTE?

- Bootstrap Ecosystem: Fully utilizes Bootstrap’s responsive design and rich component library for seamless development.
- Customizable Layouts: Offers a variety of pre-designed page layouts to match diverse backend needs.
- Comprehensive Components: Includes tools like data tables, charts, and forms to simplify backend development.
- Lightweight and Easy to Use: Eliminates the need for complex setups, making it accessible for developers of all levels.

Who Should Use AdminLTE?

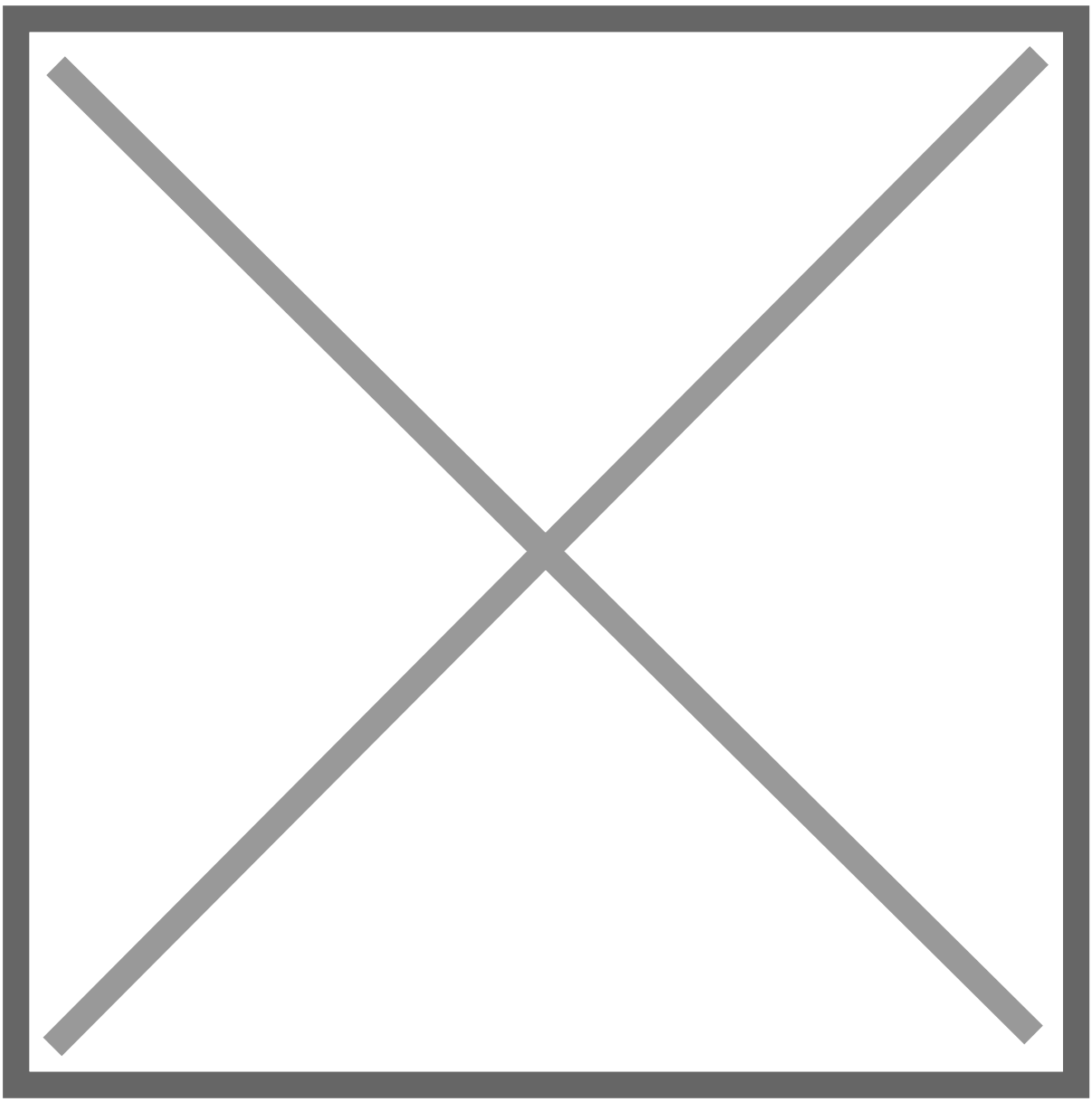
AdminLTE is perfect for projects that demand high compatibility and quick customization, such as content management systems, user dashboards, or small-scale business platforms.

For instance, a startup creating an internal analytics tool can leverage AdminLTE’s pre-built layouts and modules to reduce development time. Its compatibility with Bootstrap ensures a reliable and flexible development process, even for scaling projects.

#2: NocoDB

 Stars: 50.4k

GitHub Link:https://github.com/nocodb/nocodb



NocoDB is an open-source no-code platform that transforms relational databases like MySQL and PostgreSQL into easy-to-use spreadsheet interfaces. With an intuitive design and powerful features, NocoDB empowers both technical and non-technical users to build admin dashboards and business applications efficiently.

Why Choose NocoDB for Admin Dashboards?

- Excel-Like Usability: Provides a familiar spreadsheet interface for managing and interacting with databases.
- Broad Database Support: Integrates with MySQL, PostgreSQL, MariaDB, SQL Server, and more for seamless data management.
- Instant API Creation: Automatically generates REST and GraphQL APIs, streamlining system integration.
- Team Collaboration: Real-time data sharing and editing enable effective teamwork.
- Flexible Deployment: Offers cloud-based and self-hosted options to suit diverse operational needs.

Who Should Use NocoDB?

NocoDB is an excellent choice for teams or enterprises needing a quick and efficient way to create data management dashboards. Its no-code interface simplifies backend development for developers and ensures accessibility for non-technical users.

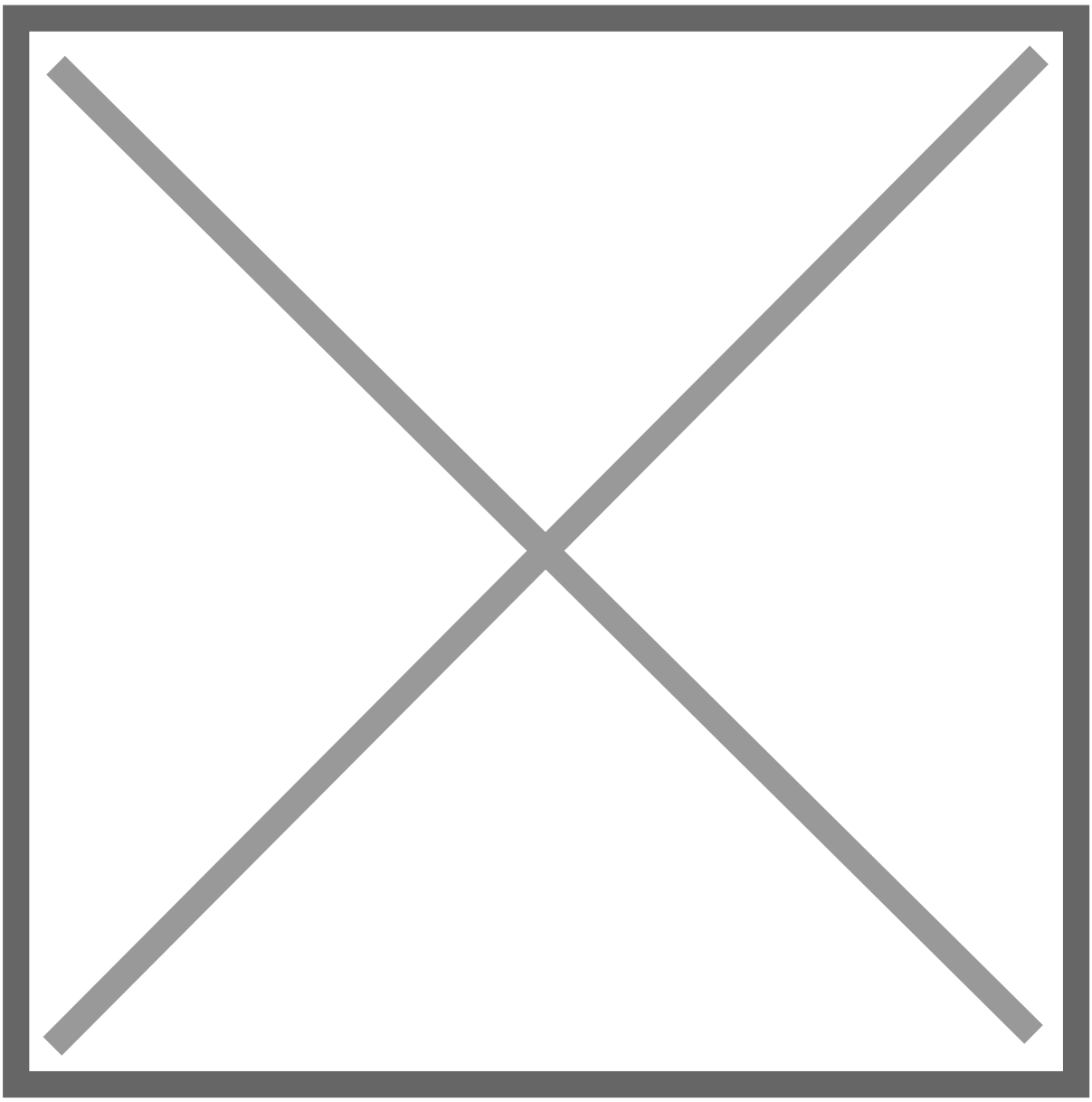
Perfect for creating enterprise data platforms, project management tools, or CMS systems, NocoDB’s robust API integration and broad database compatibility make it a versatile solution.

□□ Further Reading: NocoBase vs NocoDB: An In-Depth Comparison of Open Source No-Code Tools

#1: Vue-Element-Admin

□ Stars: 88.3k

GitHub Link: https://github.com/PanJiaChen/vue-element-admin



Vue-Element-Admin is a leading open-source admin dashboard template powered by Vue and Element-UI. Its rich functionality, clean code structure, and extensive customization options make it a top choice for developers worldwide.

Why Choose Vue-Element-Admin?

- Vue & Element-UI Integration: Combines Vue’s modularity with Element-UI’s feature-rich components to streamline development.
- Flexible Layouts: Offers pre-designed layout options to adapt to various backend needs.
- Comprehensive Modules: Includes user and role management, table displays, and advanced charting tools for complete dashboard solutions.
- Role-Based Permissions: Ensures secure and granular access management with dynamic permissions.
- Powerful Forms: Handles complex form requirements, including nested forms and dynamic validations.

Who Should Use Vue-Element-Admin?

Vue-Element-Admin is ideal for enterprises seeking a robust, scalable admin dashboard. It's particularly suited for projects requiring detailed permissions, intricate form processing, and extensive data analytics. For mid-to-large-scale projects, Vue-Element-Admin's modular approach and powerful features enable developers to build tailored backend solutions efficiently.

Summary

The open-source projects listed above excel in their unique strengths across functionality, usability, and community engagement. Developers can choose the admin dashboard solution that best fits their specific needs. For those seeking a fast and flexible way to create powerful admin dashboards, NocoBase stands out as a top recommendation!

Admin dashboards are just one key category of open-source tools. GitHub features a wealth of outstanding projects across diverse use cases. If you're interested, check out some of our other GitHub ranking articles:

- Top 12 Open-Source No-Code Tools by GitHub Stars
- Top 15 Open-Source Low-Code Projects by GitHub Stars
- Top 11 Open-Source Internal Tools by GitHub Stars
- Top 8 Open-Source CRUD Projects by GitHub Stars
- Top 13 Open-Source Self-Hosted Projects by GitHub Stars
- Top 7 Open-Source Airtable Alternatives by GitHub Stars
- Top 5 Open-Source No-Code/Low-Code Application Development Platforms by GitHub Stars
- Top 10 Open-Source Workflow Projects by GitHub Stars

We're excited to continue updating this series of articles. Stay tuned for more insights and recommendations!

Linuxserver.io - Repositório Open Source

Link: https://docs.linuxserver.io/images-by-category/ https://fleet.linuxserver.io/

3d Modeling

Container	Description
Blender	Blender is a free and open-source 3D computer graphics software toolset used for creating animated films, visual effects, art, 3D printed models, motion graphics, interactive 3D applications, virtual reality, and computer games. **This image does not support GPU rendering out of the box only accelerated workspace experience**
Freecad	FreeCAD is a general-purpose parametric 3D computer-aided design (CAD) modeler and a building information modeling (BIM) software application with finite element method (FEM) support.
Inkscape	Inkscape is professional quality vector graphics software which runs on Linux, Mac OS X and Windows desktop computers.
Kicad	KiCad - A Cross Platform and Open Source Electronics Design Automation Suite.

3d Printing

Container	Description
Bambustudio	Bambu Studio is an open-source, cutting-edge, feature-rich slicing software. It contains project-based workflows, systematically optimized slicing algorithms, and an easy-to-use graphical interface, bringing users an incredibly smooth printing experience.
Cura	UltiMaker Cura is free, easy-to-use 3D printing software trusted by millions of users. Fine-tune your 3D model with 400+ settings for the best slicing and printing results.

Container	Description
Manyfold	Manyfold is an open source, self-hosted web application for managing a collection of 3D models, particularly focused on 3D printing.
Orcaslicer	Orca Slicer is an open source slicer for FDM printers. OrcaSlicer is fork of Bambu Studio, it was previously known as BambuStudio-SoftFever, Bambu Studio is forked from PrusaSlicer by Prusa Research, which is from Slic3r by Alessandro Ranellucci and the RepRap community

Administration

Container	Description
Doublecommander	Double Commander is a free cross platform open source file manager with two panels side by side. It is inspired by Total Commander and features some new ideas.
Hishtory-server	hiSHtory is a better shell history. It stores your shell history in context (what directory you ran the command in, whether it succeeded or failed, how long it took, etc). This is all stored locally and end-to-end encrypted for syncing to to all your other computers.
Ldap-auth	Ldap-auth software is for authenticating users who request protected resources from servers proxied by nginx. It includes a daemon (ldap-auth) that communicates with an authentication server, and a webserver daemon that generates an authentication cookie based on the user's credentials. The daemons are written in Python for use with a Lightweight Directory Access Protocol (LDAP) authentication server (OpenLDAP or Microsoft Windows Active Directory 2003 and 2012).
Netbootxyz	Netbootxyz is a way to PXE boot various operating system installers or utilities from one place within the BIOS without the need of having to go retrieve the media to run the tool. iPXE is used to provide a user friendly menu from within the BIOS that lets you easily choose the operating system you want along with any specific types of versions or bootable flags.
Netbox	Netbox is an IP address management (IPAM) and data center infrastructure management (DCIM) tool. Initially conceived by the network engineering team at DigitalOcean, NetBox was developed specifically to address the needs of network and infrastructure engineers. It is intended to function as a domain-specific source of truth for network operations.
Openssh-server	Openssh-server is a sandboxed environment that allows ssh access without giving keys to the entire server.
Snipe-it	Snipe-it makes asset management easy. It was built by people solving real-world IT and asset management problems, and a solid UX has always been a top priority. Straightforward design and bulk actions mean getting things done faster.

Audio Processing

Container	Description
Ardour	Ardour is an open source, collaborative effort of a worldwide team including musicians, programmers, and professional recording engineers.
Audacity	Audacity is an easy-to-use, multi-track audio editor and recorder. Developed by a group of volunteers as open source.

Audiobooks

Container	Description
Emby	Emby organizes video, music, live TV, and photos from personal media libraries and streams them to smart TVs, streaming boxes and mobile devices. This container is packaged as a standalone emby Media Server.
Jellyfin	Jellyfin is a Free Software Media System that puts you in control of managing and streaming your media. It is an alternative to the proprietary Emby and Plex, to provide media from a dedicated server to end-user devices via multiple apps. Jellyfin is descended from Emby's 3.5.2 release and ported to the .NET Core framework to enable full cross-platform support. There are no strings attached, no premium licenses or features, and no hidden agendas: just a team who want to build something better and work together to achieve it.
Plex	Plex organizes video, music and photos from personal media libraries and streams them to smart TVs, streaming boxes and mobile devices. This container is packaged as a standalone Plex Media Server. Straightforward design and bulk actions mean getting things done faster.

Automation

Container	Description
Changedetection.io	Changedetection.io provides free, open-source web page monitoring, notification and change detection.

Backup

Container	Description
Duplicati	Duplicati is a backup client that securely stores encrypted, incremental, compressed backups on local storage, cloud storage services and remote file servers. It works with standard protocols like FTP, SSH, WebDAV as well as popular services like Microsoft OneDrive, Amazon S3, Google Drive, box.com, Mega, B2, and many others.
Resilio-sync	Resilio-sync (formerly BitTorrent Sync) uses the BitTorrent protocol to sync files and folders between all of your devices. There are both free and paid versions, this container supports both. There is an official sync image but we created this one as it supports user mapping to simplify permissions for volumes.
Rsnapshot	Rsnapshot is a filesystem snapshot utility based on rsync. rsnapshot makes it easy to make periodic snapshots of local machines, and remote machines over ssh. The code makes extensive use of hard links whenever possible, to greatly reduce the disk space required.
Syncthing	Syncthing replaces proprietary sync and cloud services with something open, trustworthy and decentralized. Your data is your data alone and you deserve to choose where it is stored, if it is shared with some third party and how it's transmitted over the Internet.

Books

Container	Description
Calibre	Calibre is a powerful and easy to use e-book manager. Users say it's outstanding and a must-have. It'll allow you to do nearly everything and it takes things a step beyond normal e-book software. It's also completely free and open source and great for both casual users and computer experts.
Calibre-web	Calibre-web is a web app providing a clean interface for browsing, reading and downloading eBooks using an existing Calibre database. It is also possible to integrate google drive and edit metadata and your calibre library through the app itself.
Cops	Cops by Sébastien Lucas, now maintained by MikesPub, stands for Calibre OPDS (and HTML) Php Server.
Kavita	Kavita is a fast, feature rich, cross platform reading server. Built with a focus for being a full solution for all your reading needs. Setup your own server and share your reading collection with your friends and family!
Lazylibrarian	Lazylibrarian is a program to follow authors and grab metadata for all your digital reading needs. It uses a combination of Goodreads Librarything and optionally GoogleBooks as sources for author info and book info. This container is based on the DobyTang fork.
Mylar3	Mylar3 is an automated Comic Book downloader (cbr/cbz) for use with NZB and torrents written in python. It supports SABnzbd, NZBGET, and many torrent clients in addition to DDL.
Readarr	Readarr - Book Manager and Automation (Sonarr for Ebooks)

Container	Description
Ubooquity	Ubooquity is a free, lightweight and easy-to-use home server for your comics and ebooks. Use it to access your files from anywhere, with a tablet, an e-reader, a phone or a computer.

Business

Container	Description
Kasm	Kasm Workspaces is a docker container streaming platform for delivering browser-based access to desktops, applications, and web services. Kasm uses devops-enabled Containerized Desktop Infrastructure (CDI) to create on-demand, disposable, docker containers that are accessible via web browser. Example use-cases include Remote Browser Isolation (RBI), Data Loss Prevention (DLP), Desktop as a Service (DaaS), Secure Remote Access Services (RAS), and Open Source Intelligence (OSINT) collections.
Kimai	Kimai is a professional grade time-tracking application, free and open-source.
Netbox	Netbox is an IP address management (IPAM) and data center infrastructure management (DCIM) tool. Initially conceived by the network engineering team at DigitalOcean, NetBox was developed specifically to address the needs of network and infrastructure engineers. It is intended to function as a domain-specific source of truth for network operations.
Planka	Planka is an elegant open source project tracking tool.

Chat

Container	Description
Altus	Altus is an Electron-based WhatsApp client with themes and multiple account support.
Ferdium	Ferdium is a desktop app that helps you organize how you use your favourite apps by combining them into one application.
Pidgin	Pidgin is a chat program which lets you log into accounts on multiple chat networks simultaneously. This means that you can be chatting with friends on XMPP and sitting in an IRC channel at the same time.
Thelounge	Thelounge (a fork of shoutIRC) is a web IRC client that you host on your own server.

Container	Description
Webcord	WebCord can be summarized as a pack of security and privacy hardenings, Discord features reimplementations, Electron / Chromium / Discord bugs workarounds, stylesheets, internal pages and wrapped https://discord.com page, designed to conform with ToS as much as it is possible (or hide the changes that might violate it from Discord's eyes).

Cloud

Container	Description
Nextcloud	Nextcloud gives you access to all your files wherever you are.

Content Management

Container	Description
Bookstack	Bookstack is a free and open source Wiki designed for creating beautiful documentation. Featuring a simple, but powerful WYSIWYG editor it allows for teams to create detailed and useful documentation with ease.
Dokuwiki	Dokuwiki is a simple to use and highly versatile Open Source wiki software that doesn't require a database. It is loved by users for its clean and readable syntax. The ease of maintenance, backup and integration makes it an administrator's favorite. Built in access controls and authentication connectors make DokuWiki especially useful in the enterprise context and the large number of plugins contributed by its vibrant community allow for a broad range of use cases beyond a traditional wiki.
Grav	Grav is a Fast, Simple, and Flexible, file-based Web-platform.
Hedgedoc	HedgeDoc gives you access to all your files wherever you are.
Monica	Monica is an open source personal relationship management system, that lets you document your life.
Obsidian	Obsidian is a note-taking app that lets you create, link, and organize your notes on your device, with hundreds of plugins and themes to customize your workflow. You can also publish your notes online, access them offline, and sync them securely with end-to-end encryption.
Planka	Planka is an elegant open source project tracking tool.

Container	Description
Raneto	Raneto - is an open source Knowledgebase platform that uses static Markdown files to power your Knowledgebase.
Wikijs	Wikijs A modern, lightweight and powerful wiki app built on NodeJS.

Dashboard

Container	Description
Heimdall	Heimdall is a way to organise all those links to your most used web sites and web applications in a simple way.

Databases

Container	Description
Mariadb	Mariadb is one of the most popular database servers. Made by the original developers of MySQL.
Mysql-workbench	MySQL Workbench is a unified visual tool for database architects, developers, and DBAs. MySQL Workbench provides data modeling, SQL development, and comprehensive administration tools for server configuration, user administration, backup, and much more.
Phpmyadmin	Phpmyadmin is a free software tool written in PHP, intended to handle the administration of MySQL over the Web. phpMyAdmin supports a wide range of operations on MySQL and MariaDB.
Sqlitebrowser	DB Browser for SQLite is a high quality, visual, open source tool to create, design, and edit database files compatible with SQLite.

Dns

Container	Description
Adguardhome-sync	Adguardhome-sync is a tool to synchronize AdGuardHome config to replica instances.

Container	Description
Ddclient	Ddclient is a Perl client used to update dynamic DNS entries for accounts on Dynamic DNS Network Service Provider. It was originally written by Paul Burry and is now mostly by wimpunk. It has the capability to update more than just dyndns and it can fetch your WAN-ipaddress in a few different ways.
Duckdns	Duckdns is a free service which will point a DNS (sub domains of duckdns.org) to an IP of your choice. The service is completely free, and doesn't require reactivation or forum posts to maintain its existence.

Docker

Container	Description
Fleet	Fleet provides an online web interface which displays a set of maintained images from one or more owned repositories.
Modmanager	Modmanager is a centralised tool for downloading and updating docker mods for all your other Linuxserver containers.
Qemu-static	Run multiple architectures of Docker containers on an x86_64 or aarch64 host using QEMU static.
Socket-proxy	The Socket Proxy is a security-enhanced proxy which allows you to apply access rules to the Docker socket, limiting the attack surface for containers such as watchtower or Traefik that need to use it.

Documents

Container	Description
Calligra	Calligra is an office and graphic art suite by KDE. It is available for desktop PCs, tablet computers, and smartphones. It contains applications for word processing, spreadsheets, presentation, vector graphics, and editing databases.
Libreoffice	LibreOffice is a free and powerful office suite, and a successor to OpenOffice.org (commonly known as OpenOffice). Its clean interface and feature-rich tools help you unleash your creativity and enhance your productivity.
Nextcloud	Nextcloud gives you access to all your files wherever you are.

Container	Description
Wps-office	WPS Office is a lightweight, feature-rich comprehensive office suite with high compatibility. As a handy and professional office software, WPS Office allows you to edit files in Writer, Presentation, Spreadsheet, and PDF to improve your work efficiency.
Zotero	Zotero is a free, easy-to-use tool to help you collect, organize, annotate, cite, and share research.

Downloaders

Container	Description
Deluge	Deluge is a lightweight, Free Software, cross-platform BitTorrent client.
Flexget	Flexget is a multipurpose automation tool for all of your media.
Nzbget	Nzbget is a usenet downloader, written in C++ and designed with performance in mind to achieve maximum download speed by using very little system resources.
Pyload-ng	pyLoad is a Free and Open Source download manager written in Python and designed to be extremely lightweight, easily extensible and fully manageable via web.
Qbittorrent	The Qbittorrent project aims to provide an open-source software alternative to µTorrent. qBittorrent is based on the Qt toolkit and libtorrent-rasterbar library.
Sabnzbd	Sabnzbd makes Usenet as simple and streamlined as possible by automating everything we can. All you have to do is add an .nzb. SABnzbd takes over from there, where it will be automatically downloaded, verified, repaired, extracted and filed away with zero human interaction.
Transmission	Transmission is designed for easy, powerful use. Transmission has the features you want from a BitTorrent client: encryption, a web interface, peer exchange, magnet links, DHT, µTP, UPnP and NAT-PMP port forwarding, webseed support, watch directories, tracker editing, global and per-torrent speed limits, and more.

Family

Container	Description
Babybuddy	Babybuddy is a buddy for babies! Helps caregivers track sleep, feedings, diaper changes, tummy time and more to learn about and predict baby's needs without (as much) guess work.

File Sharing¶

Container	Description
Pairdrop	PairDrop is a sublime alternative to AirDrop that works on all platforms. Send images, documents or text via peer to peer connection to devices in the same local network/Wi-Fi or to paired devices.
Projectsend	Projectsend is a self-hosted application that lets you upload files and assign them to specific clients that you create yourself. Secure, private and easy. No more depending on external services or e-mail to send those files.
Pwndrop	Pwndrop is a self-deployable file hosting service for sending out red teaming payloads or securely sharing your private files over HTTP and WebDAV.
Pydio-cells	Pydio-cells is the nextgen file sharing platform for organizations. It is a full rewrite of the Pydio project using the Go language following a micro-service architecture.
Snapdrop	Snapdrop A local file sharing in your browser. Inspired by Apple's Airdrop.
Xbackbone	Xbackbone is a simple, self-hosted, lightweight PHP file manager that support the instant sharing tool ShareX and *NIX systems. It supports uploading and displaying images, GIF, video, code, formatted text, and file downloading and uploading. Also have a web UI with multi user management, past uploads history and search support.

Finance

Container	Description
Budge	budge is an open source 'budgeting with envelopes' personal finance app.
Kimai	Kimai is a professional grade time-tracking application, free and open-source.

Ftp

Container	Description

Davos	Davos is an FTP automation tool that periodically scans given host locations for new files. It can be configured for various purposes, including listening for specific files to appear in the host location, ready for it to download and then move, if required. It also supports completion notifications as well as downstream API calls, to further the workflow.
Filezilla	FIleZilla Client is a fast and reliable cross-platform FTP, FTPS and SFTP client with lots of useful features and an intuitive graphical user interface.

Games

Container	Description
Emulatorjs	Emulatorjs - In browser web based emulation portable to nearly any device for many retro consoles. A mix of emulators is used between Libretro and EmulatorJS.
Luanti	Luanti (formerly Minetest) is an open source voxel game-creation platform with easy modding and game creation
Steamos	SteamOS is an Arch based Linux distribution made by Valve Software. This container is a vanilla Arch install with Steam repositories added for software support. **This container will only work with modern AMD/Intel GPUs on a real Linux Host**

Home Automation

Container	Description
Habridge	Habridge emulates Philips Hue API to other home automation gateways such as an Amazon Echo/Dot Gen 1 (gen 2 has issues discovering ha-bridge) or other systems that support Philips Hue. The Bridge handles basic commands such as On, Off and brightness commands of the hue protocol. This bridge can control most devices that have a distinct API.
Homeassistant	Home Assistant Core - Open source home automation that puts local control and privacy first. Powered by a worldwide community of tinkerers and DIY enthusiasts. Perfect to run on a Raspberry Pi or a local server

Image Editor

Container	Description
Gimp	GIMP is a free and open-source raster graphics editor used for image manipulation (retouching) and image editing, free-form drawing, transcoding between different image file formats, and more specialized tasks. It is extensible by means of plugins, and scriptable.
Krita	Krita is a professional FREE and open source painting program. It is made by artists that want to see affordable art tools for everyone.
Rawtherapee	RawTherapee is a free, cross-platform raw image processing program!

Indexers

Container	Description
Jackett	Jackett works as a proxy server: it translates queries from apps (Sonarr, SickRage, CouchPotato, Mylar, etc) into tracker-site-specific http queries, parses the html response, then sends results back to the requesting software. This allows for getting recent uploads (like RSS) and performing searches. Jackett is a single repository of maintained indexer scraping & translation logic - removing the burden from other apps.
Nzbhydra2	Nzbhydra2 is a meta search application for NZB indexers, the spiritual successor to NZBmegasearcH, and an evolution of the original application NZBHydra.
Prowlarr	Prowlarr is a indexer manager/proxy built on the popular arr .net/reactjs base stack to integrate with your various PVR apps. Prowlarr supports both Torrent Trackers and Usenet Indexers. It integrates seamlessly with Sonarr, Radarr, Lidarr, and Readarr offering complete management of your indexers with no per app Indexer setup required (we do it all).

Irc

Container	Description
Limnoria	Limnoria A robust, full-featured, and user/programmer-friendly Python IRC bot, with many existing plugins. Successor of the well-known Supybot.
Ngircd	Ngircd is a free, portable and lightweight Internet Relay Chat server for small or private networks, developed under the GNU General Public License (GPL). It is easy to configure, can cope with dynamic IP addresses, and supports IPv6, SSL-protected connections as well as PAM for authentication. It is written from scratch and not based on the original IRCd.

Container	Description
Pidgin	Pidgin is a chat program which lets you log into accounts on multiple chat networks simultaneously. This means that you can be chatting with friends on XMPP and sitting in an IRC channel at the same time.
Thelounge	Thelounge (a fork of shoutIRC) is a web IRC client that you host on your own server.
Znc	Znc is an IRC network bouncer or BNC. It can detach the client from the actual IRC server, and also from selected channels. Multiple clients from different locations can connect to a single ZNC account simultaneously and therefore appear under the same nickname on IRC.

Machine Learning

Container	Description
Faster-whisper	Faster-whisper is a reimplementation of OpenAI's Whisper model using CTranslate2, which is a fast inference engine for Transformer models. This container provides a Wyoming protocol server for faster-whisper.
Piper	Piper is a fast, local neural text to speech system that sounds great and is optimized for the Raspberry Pi 4. This container provides a Wyoming protocol server for Piper.

Media Management¶

Container	Description
Bazarr	Bazarr is a companion application to Sonarr and Radarr. It can manage and download subtitles based on your requirements. You define your preferences by TV show or movie and Bazarr takes care of everything for you.
Kometa	Kometa is a powerful tool designed to give you complete control over your media libraries. With Kometa, you can take your customization to the next level, with granular control over metadata, collections, overlays, and much more.
Lidarr	Lidarr is a music collection manager for Usenet and BitTorrent users. It can monitor multiple RSS feeds for new tracks from your favorite artists and will grab, sort and rename them. It can also be configured to automatically upgrade the quality of files already downloaded when a better quality format becomes available.

Container	Description
Mediaelch	MediaElch is a MediaManager for Kodi. Information about Movies, TV Shows, Concerts and Music are stored as nfo files. Fanarts are downloaded automatically from fanart.tv. Using the nfo generator, MediaElch can be used with other MediaCenters as well.
Medusa	Medusa is an automatic Video Library Manager for TV Shows. It watches for new episodes of your favorite shows, and when they are posted it does its magic.
Mylar3	Mylar3 is an automated Comic Book downloader (cbr/cbz) for use with NZB and torrents written in python. It supports SABnzbd, NZBGET, and many torrent clients in addition to DDL.
Radarr	Radarr - A fork of Sonarr to work with movies à la Couchpotato.
Series-troxide	Series Troxide a Simple and Modern Series Tracker
Sickchill	Sickchill is an Automatic Video Library Manager for TV Shows. It watches for new episodes of your favorite shows, and when they are posted it does its magic.
Sickgear	SickGear provides management of TV shows and/or Anime, it detects new episodes, links downloader apps, and more..
Sonarr	Sonarr (formerly NZBdrone) is a PVR for usenet and bittorrent users. It can monitor multiple RSS feeds for new episodes of your favorite shows and will grab, sort and rename them. It can also be configured to automatically upgrade the quality of files already downloaded when a better quality format becomes available.

Media Requesters

Container	Description
Doplarr	Doplarr is an *arr request bot for Discord.
Ombi	Ombi allows you to host your own Plex Request and user management system.
Overseerr	Overseerr is a request management and media discovery tool built to work with your existing Plex ecosystem.

Media Servers

Container	Description

Airsonic-advanced	Airsonic-advanced is a free, web-based media streamer, providing ubiquitious access to your music. Use it to share your music with friends, or to listen to your own music while at work. You can stream to multiple players simultaneously, for instance to one player in your kitchen and another in your living room.
Emby	Emby organizes video, music, live TV, and photos from personal media libraries and streams them to smart TVs, streaming boxes and mobile devices. This container is packaged as a standalone emby Media Server.
Jellyfin	Jellyfin is a Free Software Media System that puts you in control of managing and streaming your media. It is an alternative to the proprietary Emby and Plex, to provide media from a dedicated server to end-user devices via multiple apps. Jellyfin is descended from Emby's 3.5.2 release and ported to the .NET Core framework to enable full cross-platform support. There are no strings attached, no premium licenses or features, and no hidden agendas: just a team who want to build something better and work together to achieve it.
Mstream	mstream is a personal music streaming server. You can use mStream to stream your music from your home computer to any device, anywhere. There are mobile apps available for both Android and iPhone.
Plex	Plex organizes video, music and photos from personal media libraries and streams them to smart TVs, streaming boxes and mobile devices. This container is packaged as a standalone Plex Media Server. Straightforward design and bulk actions mean getting things done faster.

Media Tools

Container	Description
Ffmpeg	A complete, cross-platform solution to record, convert and stream audio and video.
Htpcmanager	Htpcmanager is a front end for many htpc related applications.
Minisatip	Minisatip is a multi-threaded satip server version 1.2 that runs under Linux and it was tested with DVB-S, DVB-S2, DVB-T, DVB-T2, DVB-C, DVB-C2, ATSC and ISDB-T cards.
Oscam	Oscam is an Open Source Conditional Access Module software used for descrambling DVB transmissions using smart cards. It's both a server and a client.
Synclounge	Synclounge is a third party tool that allows you to watch Plex in sync with your friends/family, wherever you are.
Tautulli	Tautulli is a python based web application for monitoring, analytics and notifications for Plex Media Server.
Tvheadend	Tvheadend works as a proxy server: is a TV streaming server and recorder for Linux, FreeBSD and Android supporting DVB-S, DVB-S2, DVB-C, DVB-T, ATSC, ISDB-T, IPTV, SAT>IP and HDHomeRun as input sources.

Container	Description
Webgrabplus	Webgrabplus is a multi-site incremental xmltv epg grabber. It collects tv-program guide data from selected tvguide sites for your favourite channels.

Monitoring

Container	Description
Apprise-api	Apprise-api Takes advantage of Apprise through your network with a user-friendly API.
Diskover	diskover is an open source file system indexer that uses Elasticsearch to index and manage data across heterogeneous storage systems.
Healthchecks	Healthchecks is a watchdog for your cron jobs. It's a web server that listens for pings from your cron jobs, plus a web interface.
Librespeed	Librespeed is a very lightweight Speedtest implemented in Javascript, using XMLHttpRequest and Web Workers.
Smokeping	Smokeping keeps track of your network latency. For a full example of what this application is capable of visit UCDavis.
Speedtest-tracker	Speedtest-tracker is a self-hosted internet performance tracking application that runs speedtest checks against Ookla's Speedtest service.
Syslog-ng	syslog-ng allows you to flexibly collect, parse, classify, rewrite and correlate logs from across your infrastructure and store or route them to log analysis tools.

Music

Container	Description
Airsonic-advanced	Airsonic-advanced is a free, web-based media streamer, providing ubiquitious access to your music. Use it to share your music with friends, or to listen to your own music while at work. You can stream to multiple players simultaneously, for instance to one player in your kitchen and another in your living room.
Beets	Beets is a music library manager and not, for the most part, a music player. It does include a simple player plugin and an experimental Web-based player, but it generally leaves actual sound-reproduction to specialized tools.

Container	Description
Emby	Emby organizes video, music, live TV, and photos from personal media libraries and streams them to smart TVs, streaming boxes and mobile devices. This container is packaged as a standalone emby Media Server.
Jellyfin	Jellyfin is a Free Software Media System that puts you in control of managing and streaming your media. It is an alternative to the proprietary Emby and Plex, to provide media from a dedicated server to end-user devices via multiple apps. Jellyfin is descended from Emby's 3.5.2 release and ported to the .NET Core framework to enable full cross-platform support. There are no strings attached, no premium licenses or features, and no hidden agendas: just a team who want to build something better and work together to achieve it.
Lidarr	Lidarr is a music collection manager for Usenet and BitTorrent users. It can monitor multiple RSS feeds for new tracks from your favorite artists and will grab, sort and rename them. It can also be configured to automatically upgrade the quality of files already downloaded when a better quality format becomes available.
Lollypop	Lollypop is a lightweight modern music player designed to work excellently on the GNOME desktop environment.
Mstream	mstream is a personal music streaming server. You can use mStream to stream your music from your home computer to any device, anywhere. There are mobile apps available for both Android and iPhone.
Plex	Plex organizes video, music and photos from personal media libraries and streams them to smart TVs, streaming boxes and mobile devices. This container is packaged as a standalone Plex Media Server. Straightforward design and bulk actions mean getting things done faster.
Spotube	Spotube is an open source, cross-platform Spotify client compatible across multiple platforms utilizing Spotify's data API and YouTube, Piped.video or JioSaavn as an audio source, eliminating the need for Spotify Premium
Your_spotify	Your_spotify is a self-hosted application that tracks what you listen and offers you a dashboard to explore statistics about it! It's composed of a web server which polls the Spotify API every now and then and a web application on which you can explore your statistics.

Network

Container	Description
Adguardhome-sync	Adguardhome-sync is a tool to synchronize AdGuardHome config to replica instances.
Ddclient	Ddclient is a Perl client used to update dynamic DNS entries for accounts on Dynamic DNS Network Service Provider. It was originally written by Paul Burry and is now mostly by wimpunk. It has the capability to update more than just dyndns and it can fetch your WAN-ipaddress in a few different ways.

Container	Description
Duckdns	Duckdns is a free service which will point a DNS (sub domains of duckdns.org) to an IP of your choice. The service is completely free, and doesn't require reactivation or forum posts to maintain its existence.
Fail2ban	Fail2ban is a daemon to ban hosts that cause multiple authentication errors.
Netbootxyz	Netbootxyz is a way to PXE boot various operating system installers or utilities from one place within the BIOS without the need of having to go retrieve the media to run the tool. iPXE is used to provide a user friendly menu from within the BIOS that lets you easily choose the operating system you want along with any specific types of versions or bootable flags.
Unifi-network-application	The Unifi-network-application software is a powerful, enterprise wireless software engine ideal for high-density client deployments requiring low latency and high uptime performance.
Wireguard	WireGuard® is an extremely simple yet fast and modern VPN that utilizes state-of-the-art cryptography. It aims to be faster, simpler, leaner, and more useful than IPsec, while avoiding the massive headache. It intends to be considerably more performant than OpenVPN. WireGuard is designed as a general purpose VPN for running on embedded interfaces and super computers alike, fit for many different circumstances. Initially released for the Linux kernel, it is now cross-platform (Windows, macOS, BSD, iOS, Android) and widely deployable. It is currently under heavy development, but already it might be regarded as the most secure, easiest to use, and simplest VPN solution in the industry.
Wireshark	Wireshark is the world’s foremost and widely-used network protocol analyzer. It lets you see what’s happening on your network at a microscopic level and is the de facto (and often de jure) standard across many commercial and non-profit enterprises, government agencies, and educational institutions. Wireshark development thrives thanks to the volunteer contributions of networking experts around the globe and is the continuation of a project started by Gerald Combs in 1998.

Password Manager

Container	Description
Keepassxc	KeePassXC is a free and open-source password manager. It started as a community fork of KeePassX (itself a cross-platform port of KeePass).

Photos

Container	Description
Darktable	darktable is an open source photography workflow application and raw developer. A virtual lighttable and darkroom for photographers. It manages your digital negatives in a database, lets you view them through a zoomable lighttable and enables you to develop raw images and enhance them.
Digikam	digiKam: Professional Photo Management with the Power of Open Source
Lychee	Lychee is a free photo-management tool, which runs on your server or web-space. Installing is a matter of seconds. Upload, manage and share photos like from a native application. Lychee comes with everything you need and all your photos are stored securely.
Piwigo	Piwigo is a photo gallery software for the web that comes with powerful features to publish and manage your collection of pictures.

Programming

Container	Description
Code-server	Code-server is VS Code running on a remote server, accessible through the browser.
Github-desktop	Github Desktop is an open source Electron-based GitHub app. It is written in TypeScript and uses React.
Gitqlient	GitQlient is a multi-platform Git client originally forked from QGit. Nowadays it goes beyond of just a fork and adds a lot of new functionality.
Openvscode-server	Openvscode-server provides a version of VS Code that runs a server on a remote machine and allows access through a modern web browser.
Pylon	Pylon is a web based integrated development environment built with Node.js as a backend and with a supercharged JavaScript/HTML5 frontend, licensed under GPL version 3. This project originates from Cloud9 v2 project.
Vscodium	VSCodium is a community-driven, freely-licensed binary distribution of Microsoft’s editor VS Code.
Yaak	Yaak is a desktop API client for organizing and executing REST, GraphQL, and gRPC requests. It's built using Tauri, Rust, and ReactJS.

Recipes

Container	Description
Grocy	Grocy is an ERP system for your kitchen! Cut down on food waste, and manage your chores with this brilliant utility.

Remote Desktop

Container	Description
Kali-linux	Kali-linux - is an Advanced Penetration Testing Linux distribution used for Penetration Testing, Ethical Hacking and network security assessments. KALI LINUX ™ is a trademark of OffSec.
Kasm	Kasm Workspaces is a docker container streaming platform for delivering browser-based access to desktops, applications, and web services. Kasm uses devops-enabled Containerized Desktop Infrastructure (CDI) to create on-demand, disposable, docker containers that are accessible via web browser. Example use-cases include Remote Browser Isolation (RBI), Data Loss Prevention (DLP), Desktop as a Service (DaaS), Secure Remote Access Services (RAS), and Open Source Intelligence (OSINT) collections.
Rdesktop	Rdesktop - Containers containing full desktop environments in many popular flavors for Alpine, Ubuntu, Arch, and Fedora accessible via RDP.
Remmina	Remmina is a remote desktop client written in GTK, aiming to be useful for system administrators and travellers, who need to work with lots of remote computers in front of either large or tiny screens. Remmina supports multiple network protocols, in an integrated and consistent user interface. Currently RDP, VNC, SPICE, SSH and EXEC are supported.
Rustdesk	RustDesk is a full-featured open source remote control alternative for self-hosting and security with minimal configuration.
Webtop	Webtop - Alpine, Ubuntu, Fedora, and Arch based containers containing full desktop environments in officially supported flavors accessible via any modern web browser.

Reverse Proxy

Container	Description
Nginx	Nginx is a simple webserver with php support. The config files reside in `/config` for easy user customization.

Container	Description
Swag	SWAG - Secure Web Application Gateway (formerly known as letsencrypt, no relation to Let's Encrypt™) sets up an Nginx webserver and reverse proxy with php support and a built-in certbot client that automates free SSL server certificate generation and renewal processes (Let's Encrypt and ZeroSSL). It also contains fail2ban for intrusion prevention.

Rss

Container	Description
Feed2toot	Feed2toot automatically parses rss feeds, identifies new posts and posts them on the Mastodon social network.
Freshrss	Freshrss is a free, self-hostable aggregator for rss feeds.

Science

Container	Description
Boinc	BOINC is a platform for high-throughput computing on a large scale (thousands or millions of computers). It can be used for volunteer computing (using consumer devices) or grid computing (using organizational resources). It supports virtualized, parallel, and GPU-based applications.
Foldingathome	Folding@home is a distributed computing project for simulating protein dynamics, including the process of protein folding and the movements of proteins implicated in a variety of diseases. It brings together citizen scientists who volunteer to run simulations of protein dynamics on their personal computers. Insights from this data are helping scientists to better understand biology, and providing new opportunities for developing therapeutics.

Security

Container	Description
Fail2ban	Fail2ban is a daemon to ban hosts that cause multiple authentication errors.

Container	Description
Kali-linux	Kali-linux - is an Advanced Penetration Testing Linux distribution used for Penetration Testing, Ethical Hacking and network security assessments. KALI LINUX ™ is a trademark of OffSec.
Ldap-auth	Ldap-auth software is for authenticating users who request protected resources from servers proxied by nginx. It includes a daemon (ldap-auth) that communicates with an authentication server, and a webserver daemon that generates an authentication cookie based on the user's credentials. The daemons are written in Python for use with a Lightweight Directory Access Protocol (LDAP) authentication server (OpenLDAP or Microsoft Windows Active Directory 2003 and 2012).
Pwndrop	Pwndrop is a self-deployable file hosting service for sending out red teaming payloads or securely sharing your private files over HTTP and WebDAV.

Social

Container	Description
Feed2toot	Feed2toot automatically parses rss feeds, identifies new posts and posts them on the Mastodon social network.
Ferdium	Ferdium is a desktop app that helps you organize how you use your favourite apps by combining them into one application.
Mastodon	Mastodon is a free, open-source social network server based on ActivityPub where users can follow friends and discover new ones..

Storage

Container	Description
Diskover	diskover is an open source file system indexer that uses Elasticsearch to index and manage data across heterogeneous storage systems.
Doublecommander	Double Commander is a free cross platform open source file manager with two panels side by side. It is inspired by Total Commander and features some new ideas.
Qdirstat	QDirStat Qt-based directory statistics: KDirStat without any KDE -- from the author of the original KDirStat.

Video Editor

Container	Description
Kdenlive	Kdenlive is a powerful free and open source cross-platform video editing program made by the KDE community. Feature rich and production ready.
Openshot	OpenShot Video Editor is an award-winning free and open-source video editor for Linux, Mac, and Windows, and is dedicated to delivering high quality video editing and animation solutions to the world.
Shotcut	Shotcut is a free, open source, cross-platform video editor.

Video Streaming

Container	Description
Freetube	FreeTube is a feature-rich and user-friendly YouTube client with a focus on privacy.

Vpn

Container	Description
Mullvad-browser	The Mullvad Browser is a privacy-focused web browser developed in a collaboration between Mullvad VPN and the Tor Project. It’s designed to minimize tracking and fingerprinting. You could say it’s a Tor Browser to use without the Tor Network. Instead, you can use it with a trustworthy VPN.
Wireguard	WireGuard® is an extremely simple yet fast and modern VPN that utilizes state-of-the-art cryptography. It aims to be faster, simpler, leaner, and more useful than IPsec, while avoiding the massive headache. It intends to be considerably more performant than OpenVPN. WireGuard is designed as a general purpose VPN for running on embedded interfaces and super computers alike, fit for many different circumstances. Initially released for the Linux kernel, it is now cross-platform (Windows, macOS, BSD, iOS, Android) and widely deployable. It is currently under heavy development, but already it might be regarded as the most secure, easiest to use, and simplest VPN solution in the industry.

Web Browser

Container	Description
Chromium	Chromium is an open-source browser project that aims to build a safer, faster, and more stable way for all users to experience the web.
Firefox	Firefox Browser, also known as Mozilla Firefox or simply Firefox, is a free and open-source web browser developed by the Mozilla Foundation and its subsidiary, the Mozilla Corporation. Firefox uses the Gecko layout engine to render web pages, which implements current and anticipated web standards.
Librewolf	LibreWolf is a custom and independent version of Firefox, with the primary goals of privacy, security and user freedom. LibreWolf also aims to remove all the telemetry, data collection and annoyances, as well as disabling anti-freedom features like DRM.
Msedge	Microsoft Edge is a cross-platform web browser developed by Microsoft and based on Chromium.
Mullvad-browser	The Mullvad Browser is a privacy-focused web browser developed in a collaboration between Mullvad VPN and the Tor Project. It's designed to minimize tracking and fingerprinting. You could say it's a Tor Browser to use without the Tor Network. Instead, you can use it with a trustworthy VPN.
Opera	Opera is a multi-platform web browser developed by its namesake company Opera. The browser is based on Chromium, but distinguishes itself from other Chromium-based browsers (Chrome, Edge, etc.) through its user interface and other features.
Ungoogled-chromium	Ungoogled Chromium is Google Chromium, sans dependency on Google web services.

Web Tools

Container	Description
Changedetection.io	Changedetection.io provides free, open-source web page monitoring, notification and change detection.

Bitnami - Repositório Open Source

Link: https://bitnami.com/stacks

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