Project Chimera

POWER at your communities finger tips.

Project Chimera

I, Bram Diederik want to achieve world peace. The only way I see this possible is to free/liberate/enhance any type of group with empowering software.

To free and empower groups to make any community better and build up a new word from the bottom up.

Project Chimera is my own proof of concept software stack,
Combining selected software that each excels in there own field.
Unified under the discord management and authorization.

Discord

Discord is designed for real-time communication.
It combines features from chat apps,
social networks, and voice/video calling platforms.
Originally made for gamers,
it's now used by communities,
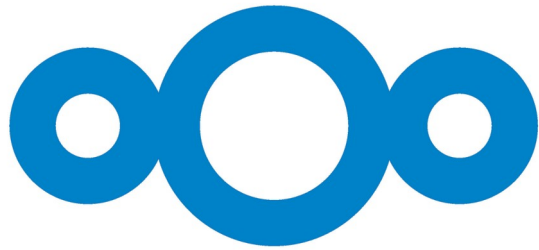schools, hobby groups, and workplaces.

https://discord.com/

Wordpress

WordPress is a free,
open-source content management system (CMS)
that allows users to create and manage websites easily,

without needing extensive coding knowledge.
It powers over 40% of all websites on the internet,
making it the most popular CMS worldwide.

Nextcloud

Nextcloud is an open-source platform that provides secure file storage, sharing, and collaboration. It allows individuals and organizations to host their own private cloud, giving full control over data while enabling access from any device. Beyond file storage, Nextcloud supports calendars, contacts, collaborative editing, and communication tools, making it a complete productivity solution.

Home Assistant

Home Assistant is an open-source platform for home automation that lets you monitor, control, and automate smart devices in your home.
from lights and thermostats to sensors, cameras, and media players all from a single interface. It supports thousands of devices, allows customizable automations, and keeps your data private. With over 21,000 contributors, it is one of GitHub's most active projects, ranked #2 overall among public repositories.

Project Chimera

- Discord is real time chat and the authorization/management system.

- Wordpress helps create/be the website front page. Integration with Home assistant entities.

- Nextcloud is the internal collaboration system.

- Home assistant the integration back end. And AI agent provider.

- Dokuwiki the public documentation system.

Self created software

To bind this all together I wrote several software.
Mole and Eagle are two discord bots. Python.
to make all the magic happen. Mole digs down to the
database and manages the ldap structure.
Eagle provides a rest API

PHP code is written to sign up members to the system
and provide additional interactions.

An discord/ldap sign-up proxy for open-ID is created for
home assistant sign in.

You can use the system to login to a Linux (Ubuntu tested)
environment.

Discord authorization system written for home assistant.

Discord

Discord is the main management and sign up system. I picked this several years ago and it was a good pick. although not FOSS Discord has good commitment to their user-base

Once signed up thought the PHP back-end all other systems are based on the discord system.
So if you add a member to the Wordpress admin group that user is wordpress admin.

You can interact to home assistant based on your roles executing published actions or interact with an AI agent of home assistant.
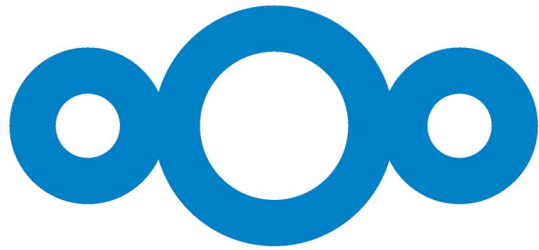
Wordpress

WordPress presents the main website of the community. Has a special plugin to communicate to the php back end on a system level.

Uses the standard social login plugin to login from discord.

I created a plugin to import home assistant entities and create a widget showing all the data.

Wordpress has loads of plugins giving you the best experience

Nextcloud

Nextcloud is the internal collaboration system.
You can create and share files. Use your email
and manage your contacts and agenda.

I Forked a social login app to bind discord login using
the ldap back end.

A shared agenda can be shared with WordPress
and discord.

File quota can be managed trough the
php/mole backend. Storing it per user in ldap quota.

Home Assistant

If the community is based on a fixed local location. Home Assistant can automate that location to the max.

Home assistant has one con. There is limited user management. (admin, or user with full access) Project Chimera over comes this issue by allowing wordpress presentation and discord/php backend Actions. The presentation is limited to text only for now.

Home assistant has full fledged LLM support allowing MCP Server interaction. And because of home assistant tool belt low/no code features can be added.

Dokuwiki

DokuWiki is added because I wanted some documentation wiki. But the 1st two wiki systems I installed took out all mem on my 4 gig Linux server(VPS). So I picked something Light weight.

It uses the build in discord login. And mole with PHP back-end handles user creation and mutation.

Easy integration

- The developed Discord/LDAP single sign on stack should work for any kind of open id /ldap enabled software.

- Or should work with a authentication (apache2) proxy providing a singed-in user as the header to web based software.

Power to the groups

Local neighborhood

- A local neighborhood can communicate with discord.

- Make meetings and schedules with Nextcloud.

- Share photos locally with Nextcloud.

- Blog about events and happenings or statements with wordpress.

- Show the data of local public transport.

- Integrate with other groups.

Local neighborhood

- Better organization of parties and events.

- Better neighborhood watch!

- One shared system to store data.

- Better public statements

- More interaction with your local neighborhood.

Community garden.

- Home assistant monitors all stats that concern gardening and weather with limited access for (some) members.

- Wordpress is the front press of the garden. Promoting/recruiting you can even sell your vegetables on it.

- Nextcloud is the internal system for finance.

- Discord is to keep local tabs on all members.

- Perhaps use AI for gardening suggestions.

MMORPG Clan

- Discord: The command center. Real-time voice/chat for raids and strategy. Unified roles (Tank, Healer, Officer) manage access across the entire stack.

- WordPress: The recruitment hub. A professional website featuring victory blogs, video highlights, and an integrated application form for new recruits.

- Nextcloud: The strategic war room. Secure storage for raid guides, enemy intel, crafting spreadsheets, and a shared calendar for all major events.

- Home Assistant: The automation engine. Sends real-world alerts for in-game events and server statuses, ensuring the clan is always one step ahead.

co-working space

- Communication & Management: Discord serves as the primary real-time chat and authorization/management system. This allows for a unified platform for internal communication and member administration.

- External Presence: WordPress can be used as the public-facing website for the company or community, for example, to promote or recruit. It can also integrate with Home Assistant entities to display data.

- Collaboration & Productivity: Nextcloud is the internal collaboration system. It provides secure file storage, sharing, and collaborative tools. Members can use it to manage their email, contacts, and calendars.

- Automation & Integration: Home Assistant can be used for automation, especially if the workplace has a fixed local location. It can monitor, control, and automate smart devices from a single interface. The system also allows for interaction with an AI agent.

- Documentation: DokuWiki is included for a lightweight documentation wiki.

Small Businesses

A small startup could even use the stack.

- Discord: Replaces Slack/Microsoft Teams for departmental channels, water-cooler chat, and quick voice meetings.
- WordPress: The company's public website and blog for marketing and recruitment.
- Nextcloud: The company's private "Google Workspace"—shared drive for documents, company calendar, internal contact directory, and collaborative document editing.
- Home Assistant: Automating and monitoring the office environment (AC, lighting, security cameras) and displaying metrics on a dashboard.

Features to be added

All systems should be using the self written openID proxy.
That way discord could be replaced or a other system can be added.

For example for a more anonymous/private chat system.

- I would love to add Asterix (voip software) into the mix.

  That real phone numbers can be included in the communication stack.

- Nextcloud has a plugin but I cant get it to work.
  And I tried to build a sip to discord voice chat bot but not getting any working results.

More Features

Our internal bot happy (super set of the published discord-ai-bot) has a in development Vibe-coding feature.

My idea is that the discord bot talks to a self selected LLM.
And has a interface to a MCP server that talks to selected servers, through ssh. (sftp file locations and ssh commands can be filtered, using ssh keys)

Vibe-coding requires good prompt engineering talking in discord. can help that others provide you feedback.

Now what.

- Think about it

- Share this presentation

- Join https://www.yetanotherprojecttosavetheworld.org/

- Setup your own community.

- Make your local and online groups better.

- Let those groups make clear demands of how the world needs to be and communicate about it inner group.

- Make a better world.

Questions.

Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it's the only thing that ever has.

Margaret Mead

BrainyQuote®