DEMOCRATIZING IT NOC DOCUMENTATION/PROCEDURES USING LOCAL AI/LLM

UTILIZING LOCAL AI LLM MODELS AND DOCUMENT CONTEXT REPOSITORIES FOR GREATER EFFICIENCY



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Preface

- High Level presentation
- Not technical deep dive into AI, Gen AI, Machine Learning, Models et al.
- Not a discussion on current end user AlaaS(Al as a Service) tools such as ChatGPT, Copilot, Canva, Grammarly, Decktopus, Docalysis, Dall-E, Midjourney that individually can be used in a similar manner based on individual use case.
- Simple demonstration of using current available AI tools securely and locally to assist in network and help desk staff work in their daily roles.
- Can be applied to any organization's IT or business units.

Converse with your data.

- Utilize your current document repository for additional efficiency.
- Democratize your on-premise static data for daily support use.
- Using local and secure AI tools to query and "converse" with your data in a new manner.
- Large Language Models used on-premise with your documents for local context chat use for easier research and answers.
- Create a chat model for all your documents to be referenced currently in local chat bot environment.

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Data democratization

- Allows everyone in an organization to have access to the data they need, and the necessary tools needed to use this data effectively. In short, data democratization enables better business decisions.
- Is the process of making data accessible to everyone in an organization, along with the tools and training needed to understand it. The goal is to enable non-specialists to gather and analyze data without needing outside help.

To democratize data, organizations can:

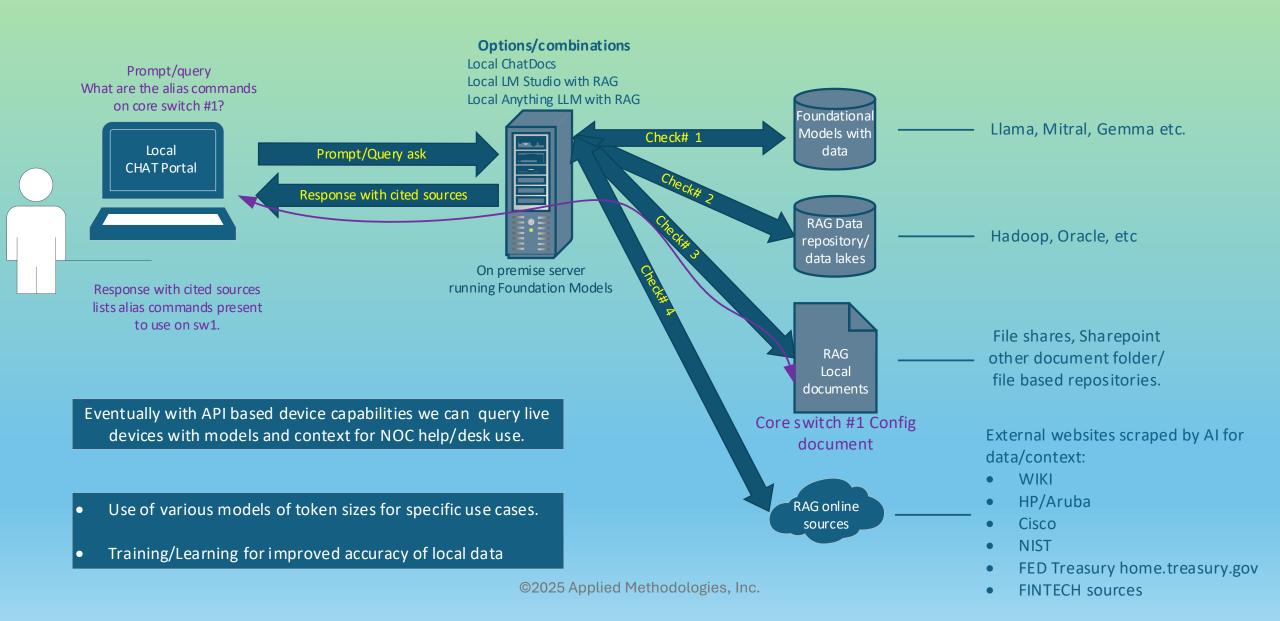
- Secure leadership commitment
- Take stock of their data ecosystem
- Unlock legacy data
- Make data accessible to all
- Promote self-service
- Provide continued education
- Shift company culture
- Change the way they store and distribute data
- Data democratization can help organizations become more data-driven. It can also help employees, stakeholders, and consumers feel confident working with data and trust the end results.
- Some synonyms for data democratization include: data openness, data accountability, data availability, and data engagement.

Context document sources

Some examples include:

- Technical and business policies
- Technical and business procedures
- Compliance/governance documents
- Log files for quick troubleshooting or security incident querying
- Help-desk guides
- IT device configuration files
- IT product documentation
- Customer account documents for reports or sales use

General Architectural Framework



Initial first step into AI tools - ChatDoc

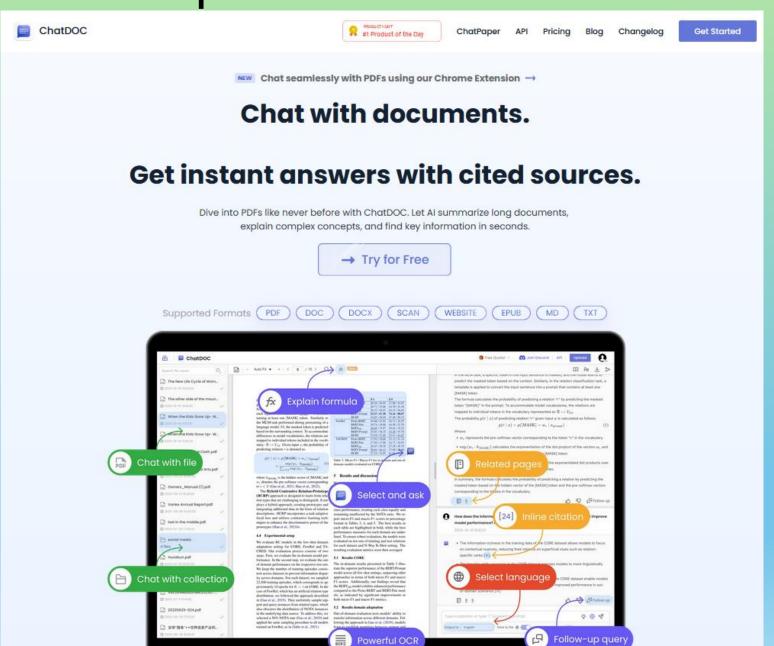
Can be used in their cloud AlaaS for "scrubbed" data.

Can be used in their cloud AlaaS service for compliant data.

Can be used locally with no connectivity to internet.

Simple tool to get started using AI to "chat with your documents"

https://chatdoc.com/



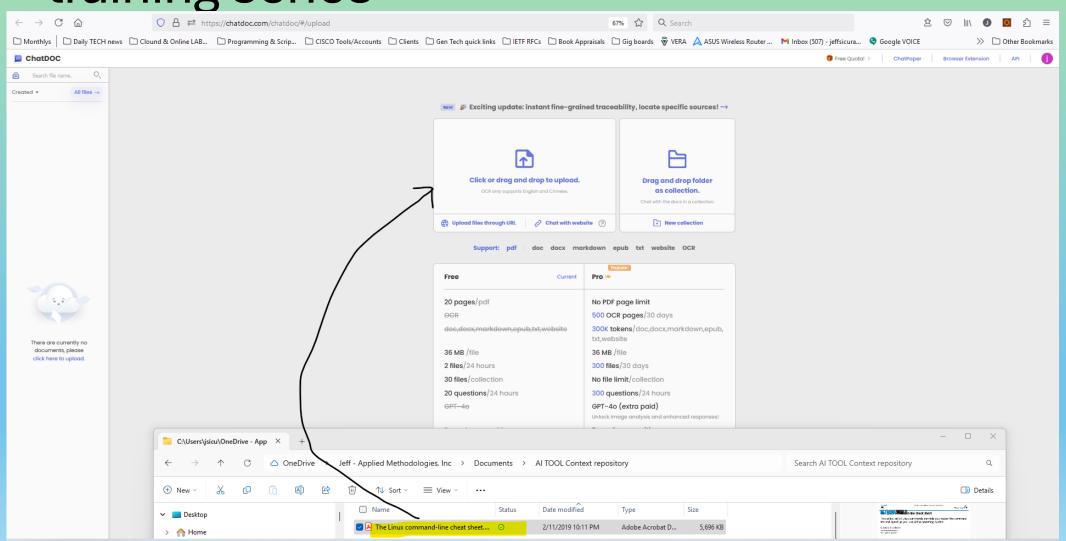
ChatDoc How it works

1. Log into site – local or cloud

2. Drag your documents you want to chat with

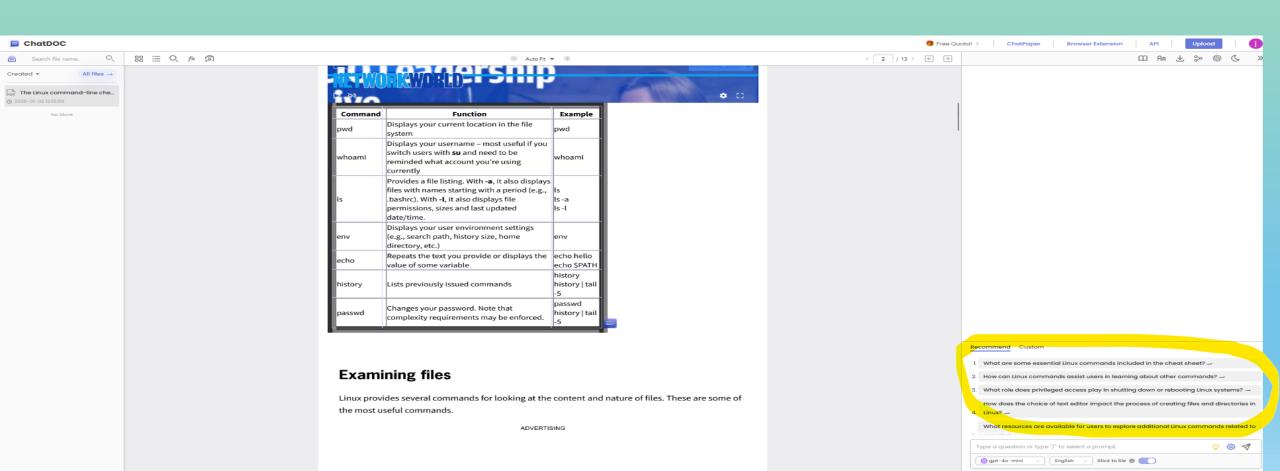
3. Start chatting with your documents

Drag a PDF or other document into ChatDoc Example uses a PDF from NetworkWorld Linux training series

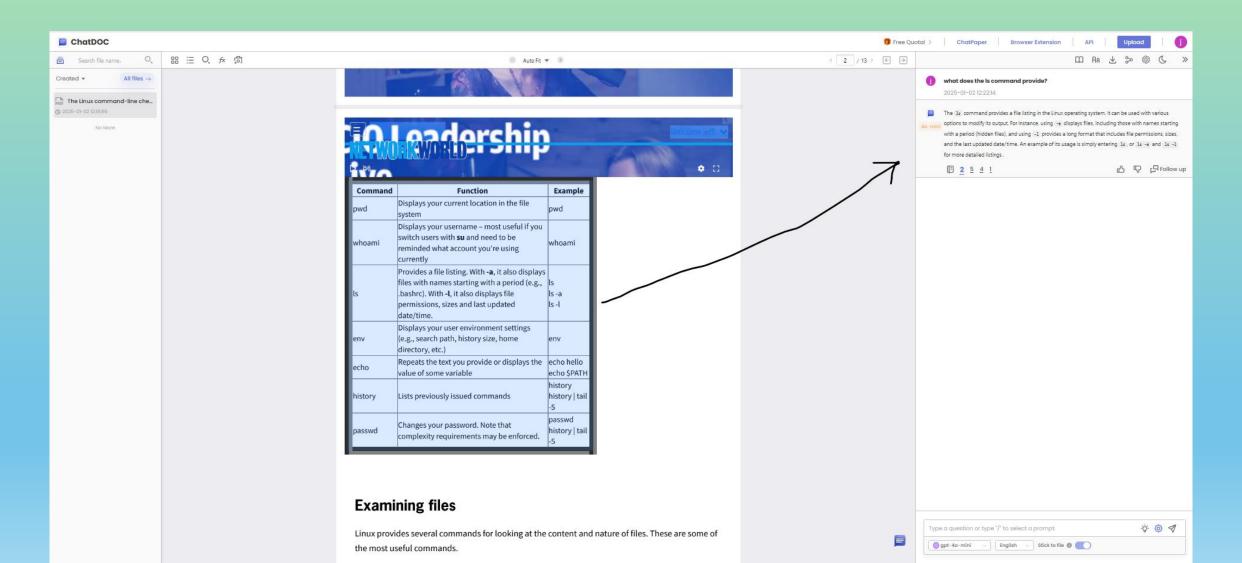


Start chatting with your documents

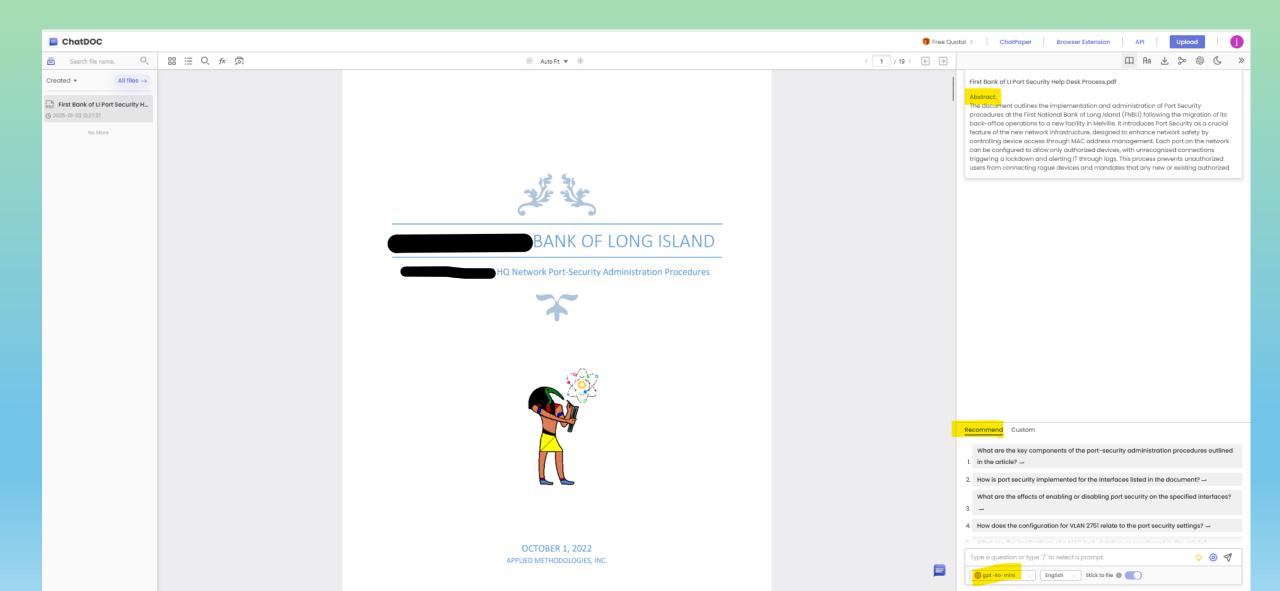
Already provides sample query/prompts to use based on context of document



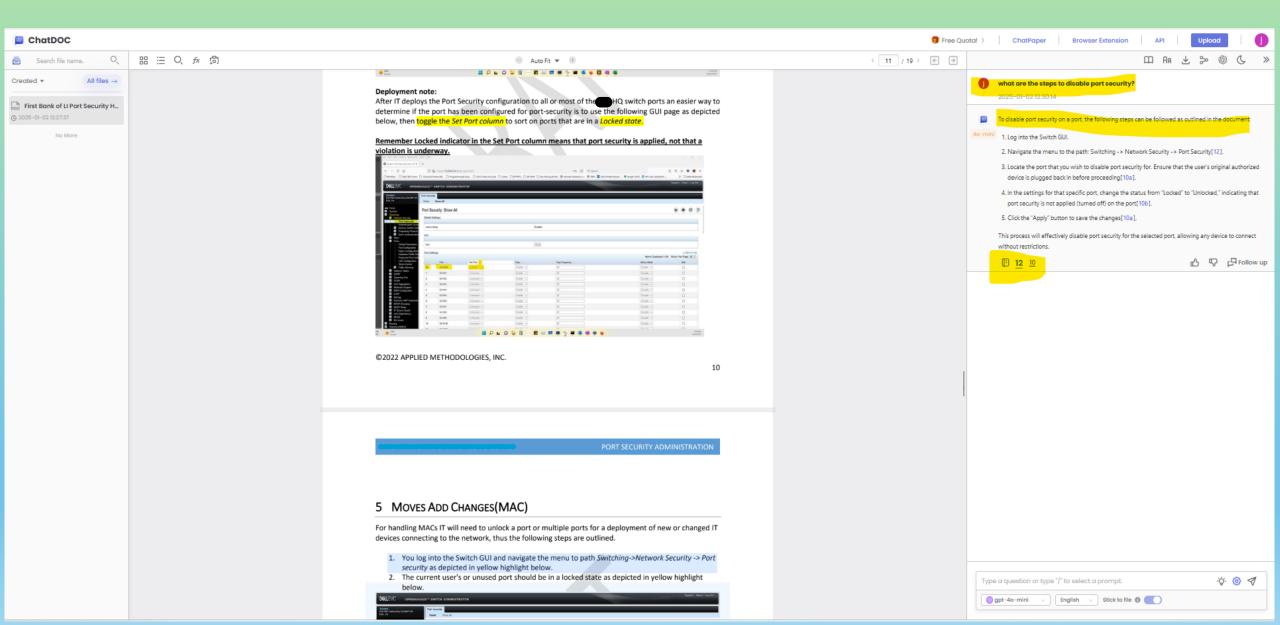
Pulls contextual data from document and uses LLM model for additional information.



Specific Example – Provides abstract and sample prompts of document learned



Query with answer and cited pages to refer to shown



Next Step - build your private Local LLM with RAG

- Utilize many existing Foundation Models(FM) in place today.
- See Hugging Face for many open-source free models to use, train and test https://huggingface.co/
- Combine with your document repository for contextual and insightfulness chatting with your documents.
- Utilize RAG for local and external sites.
- Example: Chat with a local document on a specific internal policy and it utilizes RAG to validate context against an external authoritative web site.

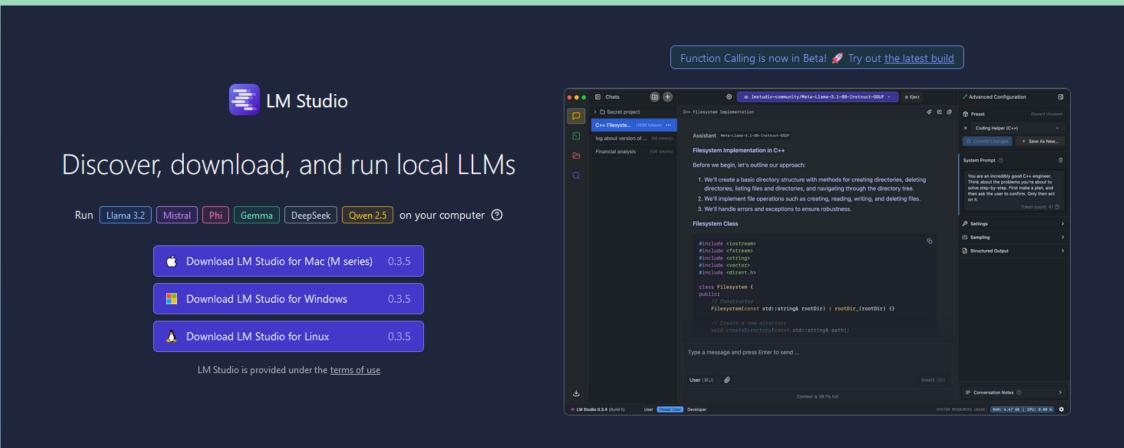
LM STUDIO + ANYTHING LLM

Discover, download, and run local LLMs

- 😈 Run LLMs on your laptop and DC servers, entirely offline
- 🔁 Chat with your local documents(Laptop use) Scale for organization on server for all shared use local documents.
- 🔛 Use models through the in-app Chat UI or an OpenAI compatible local server.
- 🗀 Download any compatible model files from Hugging Face 😜 repositories
- To Discover new & noteworthy LLMs right inside the app's Discover page
- Use as a back end LLM server for use with your own API based portal or another portal

 Anything LLM.

https://lmstudio.ai/ Can use as "back end" and primary server

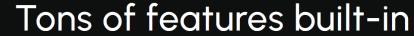


https://anythingllm.com/



Leverage powerful AI tooling with no set up





AnythingLLM ships with a ton of benefits and features built-in without writing a single line of code.

Download for desktop

Get Started on Cloud



Any LLM anytime

Run your preferred LLM locally in a click, or connects to your local or cloud LLM engine.

All with no frustrating set up.



Simple Interface

AnythingLLM wraps all of this incredible functionality into a sleek UI for you to leverage LLMs easily for any task.

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Open Source

AnythingLLM is open source and free to use & MIT licensed.

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Customizable

Extend AnythingLLMs with custom agents, data connectors, and more.

With your help, there is nothing AnythingLLM cannot do.



Multi-model

AnythingLLM works with both text only and multi-modal LLMs in a single interface.

Can with images or audio easily.

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Built-in Developer API

AnythingLLM is also suitable to be used as a powerful API for any custom development or feature in existing products.

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Ecosystem

A growing ecosystem of plugins and integrations to extend its functionality across the app and your organization.

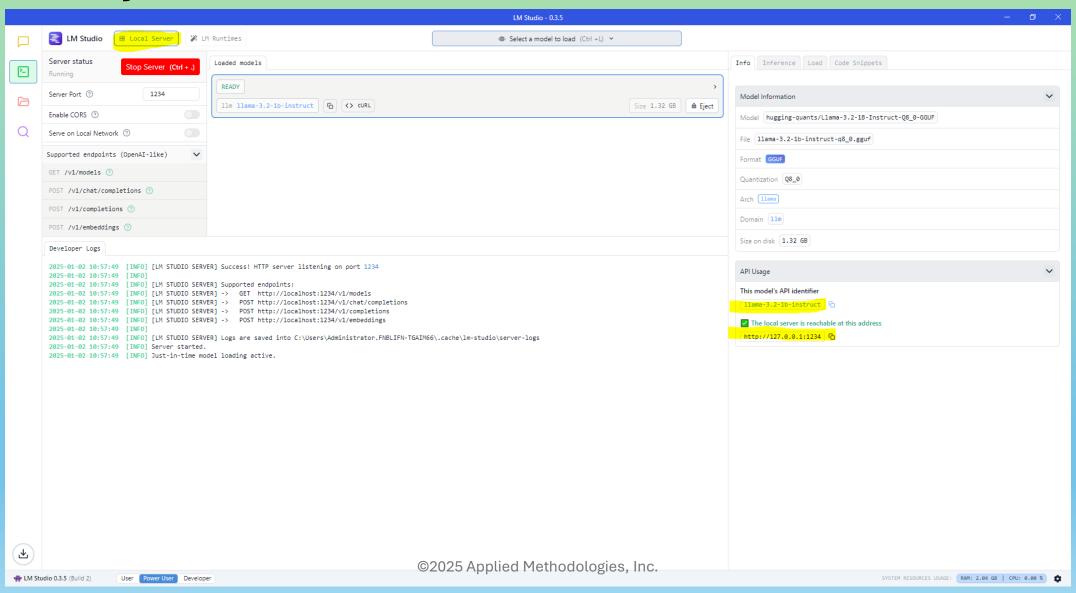
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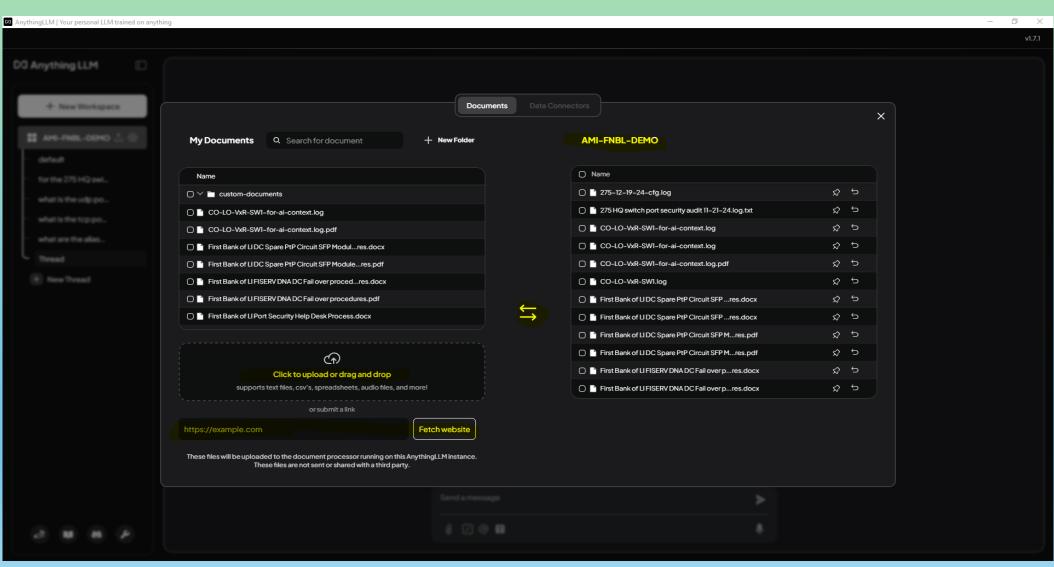
Privacy-focused

Designed to be private by default. Everything is stored and run locally on the machine running AnythingLLM.

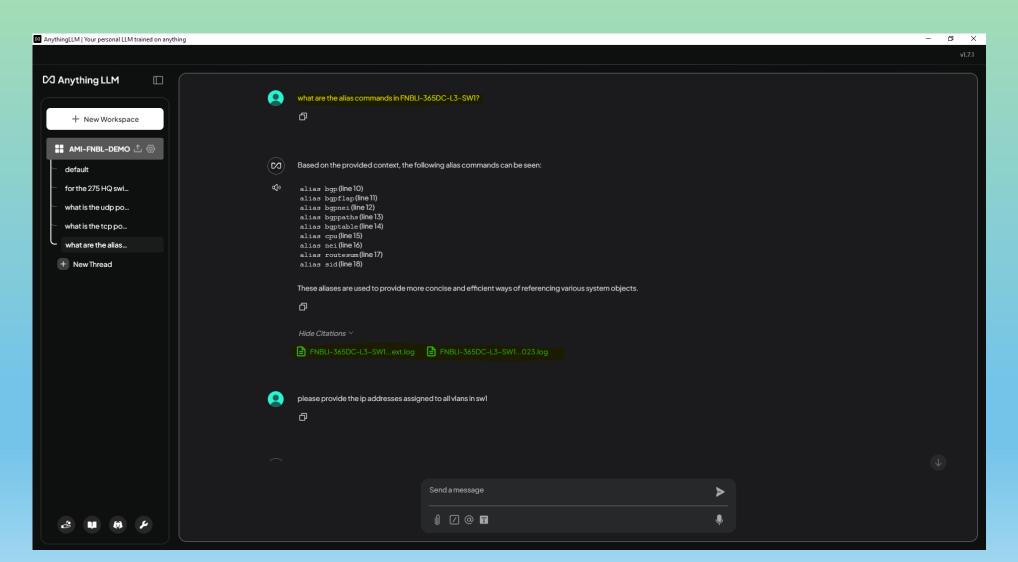
LM Studio – Local Server can use stand alone with any model or your documents



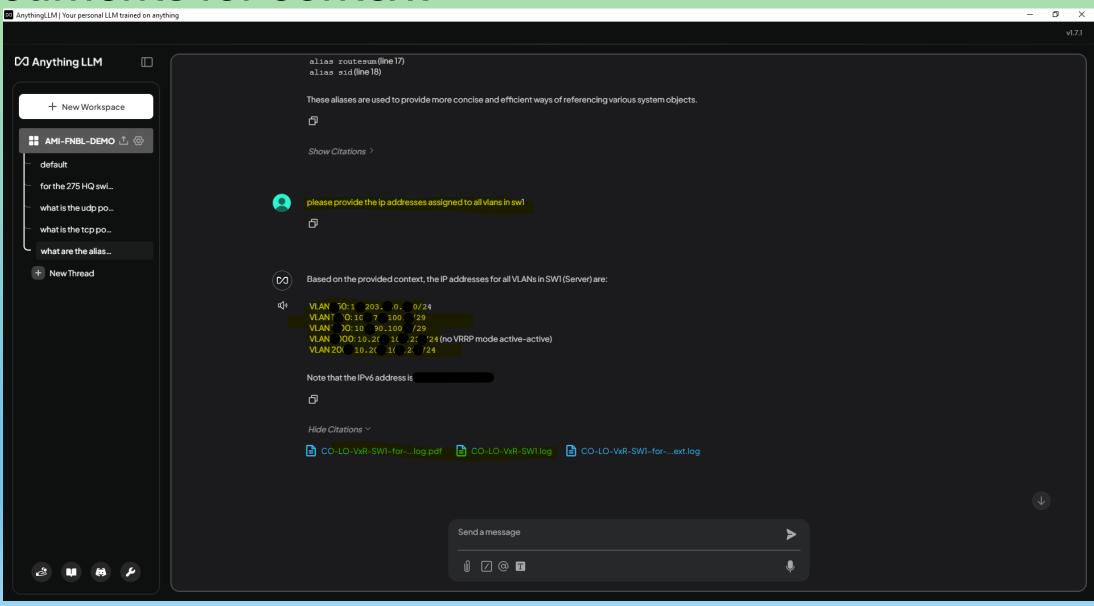
Anything LLM works as front end to LM Studio - can use additional models and add documents and web links for RAG



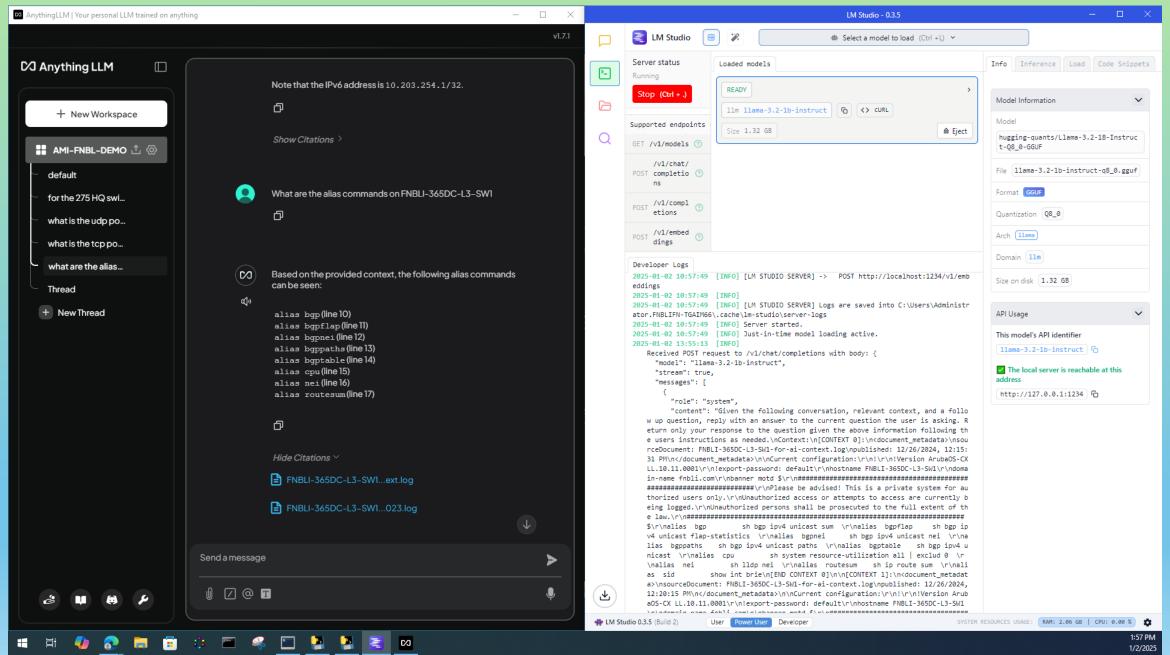
Sample query using Anything LLM as front end and Local LM as back end – note the citations



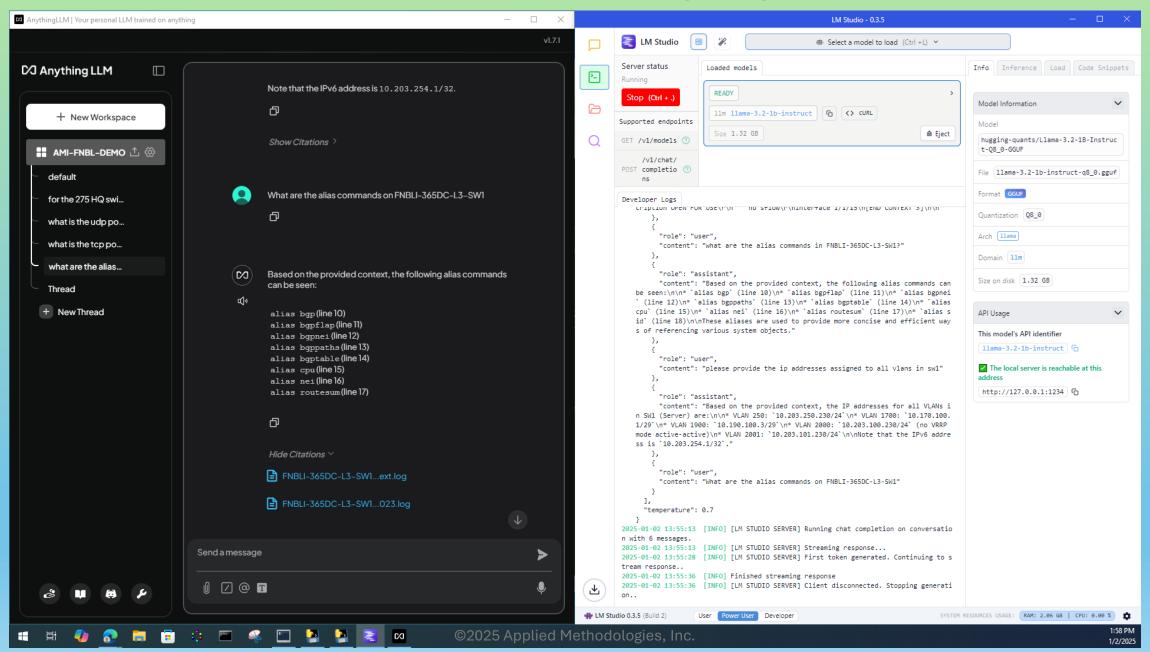
Another local query using the model and local documents for context



Side by side of both tools working together



Combined tools working together



Learning / Training

- You can leave your setup in a static data state or have it learn/train based on your local data, old or new, for improved results and to achieve detailed chatting results.
- You can add different models from Huggingface or vendors for specific uses such as network protocol analysis, network device behavior from a vendor.
- Learning/Training is dependent on your setup, model(s) and tools used.

Chatting with live "production" devices (future)

• Chat with your devices via your equipment vendor's API.

 Chat with your networking, server/compute and other IT infrastructure devices in real time for troubleshooting and operational behavior status.

 Network/Server/Application/Cloud Vendors are already integrating this capability into their next generation of applications, management tools and equipment.

Summary

- Democratize your local data in a secure local on-premise environment.
- Provides staff ability to use documents in a fluid manner to achieve higher daily productivity.
- Easy to implement and manage with current generation of AI local LLM tools today.
- Back end tools such as LM Studio, Anything LLM, GPT4All, Ollama, can all be used locally.
- Can be used as secure on premise AI first step for organizations to embrace AI for internal domain use.
- Can be combined or migrated to sanctioned Microsoft or Google company used Al solutions when organization formally embraces AI.
- Tools are always improving in this exciting technology for the benefit of the organization.