

Setting up an AI server on a NAS



Overview

We deployed Ollama and Open WebUI on three real units — a QNAP TS-464 (Celeron), a QNAP TVS-h674 (Core i5), and a TrueNAS SCALE box with a Ryzen 5 and an RTX 3060 12 GB — and have honest numbers and step-by-step recipes for each. To simplify it, Large Language Model is a type of AI (artificial intelligence) that is trained on a lot of text data, and is designed to generate human-like responses back to the user. The most significant would be ChatGPT from OpenAI. But, interacting with those models requires the information to. In this guide, we'll walk you through setting up DeepSeek AI on a Synology NAS using Docker. Why Run DeepSeek AI on a NAS?

Hosting AI locally on a NAS (Network Attached Storage) has several advantages: Data Security – Keep all your queries and interactions private. Offline Access – No need for an. AI agents are automated systems that perform tasks using AI workflows. Who benefits most from this setup?

Founders, creators, and businesses that want control over data and automation. Is this hard to build?

It requires some setup, but tools today make it much easier than before. Since everything's web-based, I can even access it from my iPad or iPhone—perfect for quick model checks or kicking off longer-running tasks when I'm away from my desk. Here's what I put together: I started with. Running AI models on a local AI server is one of the most empowering steps you can take in your AI journey. Instead of depending on cloud APIs, you can bring the intelligence directly onto your own hardware, which unlocks: Improved privacy and security: With locally hosted AI, your data never. Voice Assistant for Home Assistant locally (so Text-to-Speech model like Piper, a Speech-to-Text model like Whisper and a LLM for the conversation pipeline).

Article Content

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

OneUptime | The Open-Source Observability Platform

Catch outages in seconds, page the right engineer, and keep customers in the loop — one open-source platform that replaces your monitoring, incident

Building A NAS and AI Server

Recently I've documented on X my journey towards building a NAS and AI Rig and that ended up with me building two computers to support those workflows more optimally.

Set up the remote Azure DevOps MCP Server (preview)

Learn how to configure the remote Azure DevOps MCP Server for AI-assisted development without local installation by using streamable HTTP transport.

UnifyDrive

Setting up a massive home media server (Plex/Emby) for 4K TV streaming. A secure, private vault for decades of family memories with data

How to build a high-performance AI server locally

Building a high-performance local AI server is a fantastic way to harness the power of artificial intelligence while maintaining data privacy and control.

What Is a Server? | Definition, Types, and Features

The sections below aim to answer the question “What is a server?” This guide will explore the various types of servers, and their functions,

Build Your Own AI NAS: The Ultimate Home + Business System

Learn how to build a home AI NAS system to store media, run local AI assistants, and power business automation with full control.

Enterprise DNA: Master Data Skills + AI

Learn data and AI skills from world-class experts to drive impactful change in your career, your business, and your world. Ready to start learning?

Installation and setup

On the bootstrap path, stand up your bootstrap endpoint and deploy a profile carrying only the bootstrap keys. Deploy with bootstrap covers the server and the trust anchor. Either way, deploy the

How to Run DeepSeek AI Locally on Your NAS - A Step-by-Step Guide

The best way to ensure your AI-powered workflows remain secure is to run DeepSeek AI on your own NAS. In this guide, we'll walk you through setting up DeepSeek AI on a Synology NAS

10 Best Open source NAS or SAN Software 2025

Free, open-source NAS OS software in 2025 for home or business to build an efficient network storage system with top NAS solutions.

Local AI Server A Step by Step Guide to Setup and Use

Learn to set up and use your local AI server with this comprehensive guide. Enhance your projects today—read the article for step-by-step instructions!

Installing SFTP/SSH Server on Windows using OpenSSH

Setting up SSH public key authentication Follow a generic guide for Setting up SSH public key authentication in *nix OpenSSH server, with the following difference: Create the .ssh folder (for the

Best NAS Devices for Your Personal Cloud Server

These are the NAS devices I recommend. You might want to check out our related guides too, like How to Set Up an NAS Server, How to Back Up Your Digital Life, and The Best External

Building My AI Home Lab: From Laptop to Dedicated

This isn't just an AI playground; it's practical, hands-on learning that makes me better at server administration, containerization, and systems thinking.

AI on Synology NAS: Docker + Ollama Self-Hosted Setup (2026)

Run Ollama on Synology DSM with Container Manager. Compatible models for DS923+, DS1522+, DS1821+, and Plus-series NAS. Real benchmarks, RAM upgrades, and reverse proxy.

NAS Server + Home-Lab for AI/ LLM stuff and Home ...

Right now, I'm unsure whether it's better to build a dedicated NAS and handle everything else — LLMs, Home Assistant, AI tasks, VMs — on a separate machine, or try to consolidate

Run AI on your Synology

Like our first container, we have a couple of parameters to set. For the ports, I used 8080 for both the local and container port. Additionally, a new

AI on QNAP & TrueNAS: Turn Your NAS Into a Private AI Server (2026)

We build Local AI Master around practical, testable local AI workflows: model selection, hardware planning, RAG systems, agents, and MLOps. The goal is to turn scattered tutorials into a

Contact Us

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