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Lokální edukační on-line webináře každých 14 dní

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The bridge to possible

AI pro sítaře

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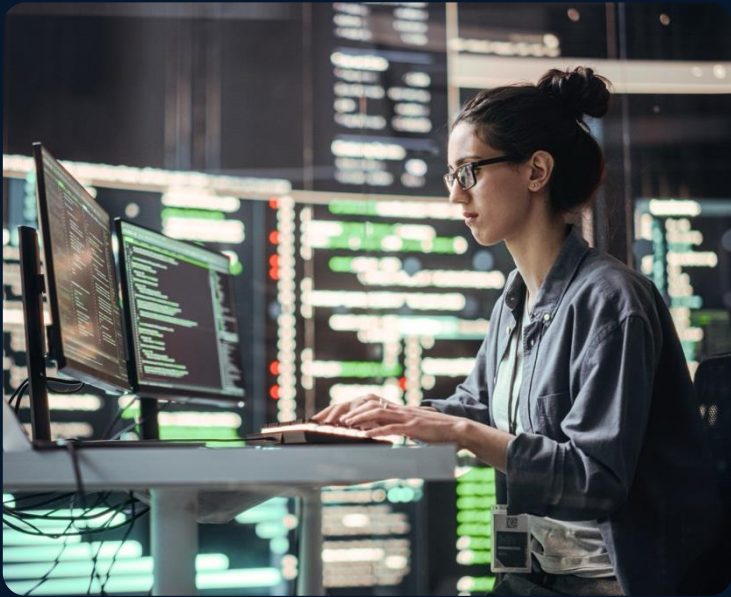
The bridge to possible

Agenda

- 1 Tools & terminology
- 2 IDE Setup
- 3 Ansible & Nexus
- 4 Network Devices
- 5 Custom GUI Tools

Tools & Terminology

Different AI “Hats” for Network Engineers



User of AI Tools



Supervisor of AI Tools



**Builder of AI
Tools/Infrastructure**

Using AI to help prepare for software upgrades

With web search built into most public AI tools today, leverage them to collect and correlate details across resources for a variety of planning actions.

The screenshot shows a ChatGPT chat window. At the top, the user's question is displayed in a grey bubble: "I'm getting ready to update my Cisco Catalyst Center system. I'm currently running version 2.1.2.8. What is the current release for Cisco Catalyst Center? What new features will I have access to once I upgrade to the latest version? What are the upgrade requirements? Are there any critical caveats or known bugs with the current version?".

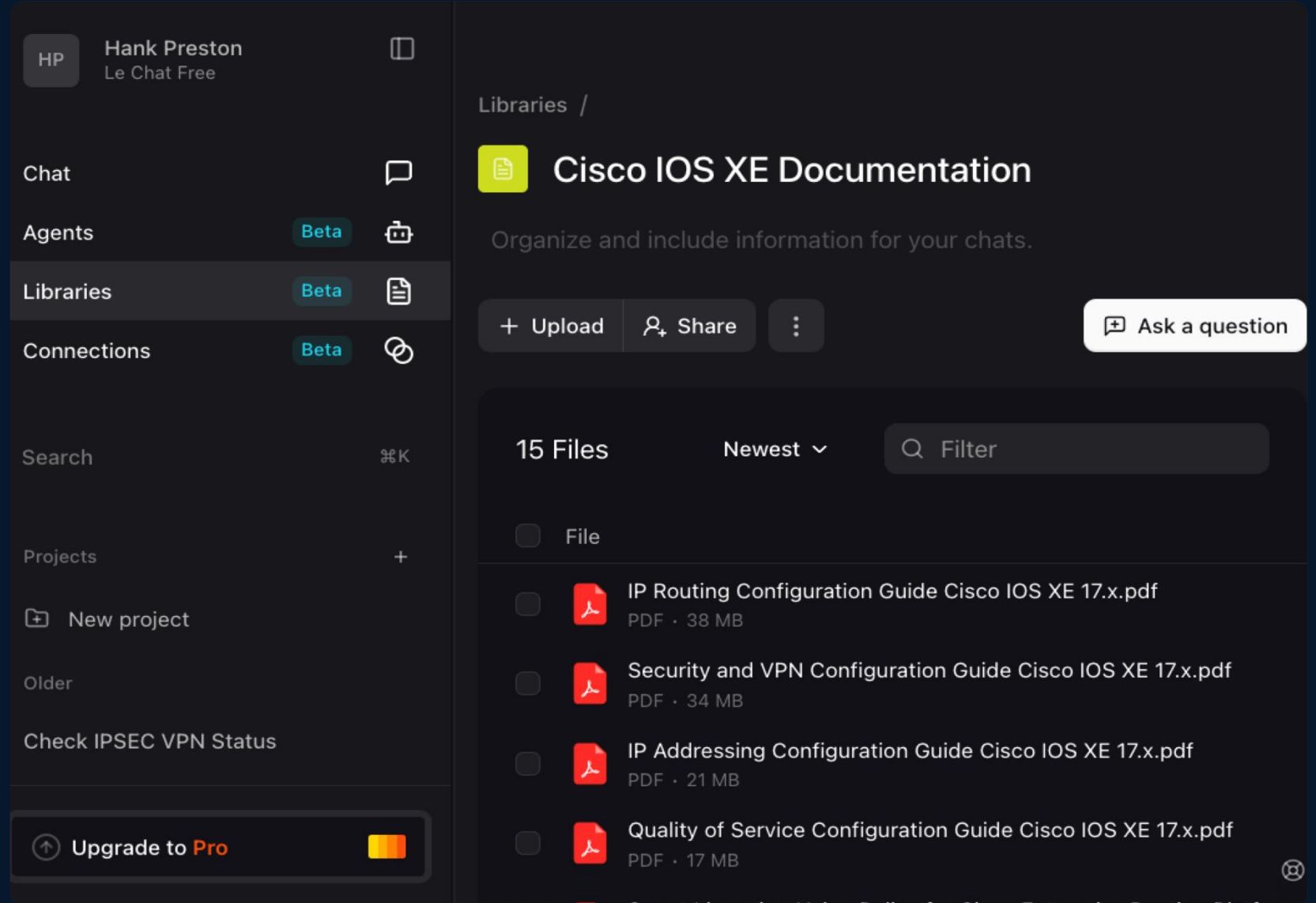
The AI's response is in a white bubble and states: "You're currently on Cisco Catalyst Center version **2.1.2.8**, which, based on Cisco's End-of-Life schedule, reached Last Day of Support in **June 2022** and End of Software Maintenance in **June 2022**. The latest release is **Catalyst Center 3.1.3** (build 3.1.3-75710), officially published on **July 18, 2025**, now entering phased rollout".

Below the response is a section titled "Benefits of Upgrading to 3.1.3" with a rocket icon. It lists three bullet points: "Parallel Redundancy Protocol (PRP) support configuration", "Updates to wireless-controller synchronization processes", and "Expanded NIC-bonding capabilities".







At the bottom of the chat window, there is an input field with the placeholder text "Ask anything", a "Tools" button, and a microphone icon. A small disclaimer at the very bottom reads "ChatGPT can make mistakes. Check important info.".

Use document libraries for individual RAG

AI has access to vast quantities of data... but sometimes we just want answers from a selection of resources. Find an AI tool that lets you create collections of resources that are used to answer your questions.



Individual AI Assistants Are Integrated Across Cisco

 Security	Firewall, Secure Access, Hypershield, Duo, Identity Intelligence, Splunk Enterprise Security, ISE
 Networking	Meraki, Catalyst Center, Catalyst SD-WAN, ThousandEyes, Intersight, Mobility Services
 Observability	Splunk Observability (Cloud, ITSI, AppDynamics)
 Data	Splunk Platform
 Collaboration	Webex Control Hub
 Service Ops	Customer Experience

Vibe Coding

Vibe Coding

AI-assisted development guided by natural-language prompts



What it is

- A 2025 approach popularized by Andrej Karpathy
- LLMs generate, debug, and refine code via conversation
- Developer steers the outcome with prompts



Why it matters

- Faster iteration and prototyping
- Shifts effort to intent, architecture, and testing
- Useful for support automation and tooling



When to use

- New features, scripts, integrations, runbooks
- Exploration and troubleshooting helpers
- When you can validate with tests and reviews



Traditional Coding vs. Vibe Coding

Feature	Traditional Coding	Vibe Coding
Approach	Manually write code & syntax	Direct AI via natural language
Role	Programmer writes & debugs	User acts as director/manager
Speed	Slower, methodical	Rapid prototyping
Focus	How to implement	What to build

Choose your approach — both paths lead to solutions.

Vibe Coding Best Practices

For Beginner Developers

1 Start with Vibe-Native Tools

Skip complex local setups. Use AI-integrated IDEs designed for vibe coding.

Recommended: GitHub Copilot — AI built-in, sees your whole project, runs commands for you.

Vibe Coding Best Practices

For Beginner Developers

2 The 'One Feature at a Time' Rule


The most common beginner mistake is asking the AI to “Build a full social media app” in one prompt.

Recommended: Break your idea into tiny pieces. Start simple and add features as you go.

Vibe Coding Best Practices

For Beginner Developers

3 Talk to the AI Like a Senior Partner



You don't need to speak "code," but you do need to be specific about your intent.

Bad Prompt: "Make a list." **Good Prompt:** "Create a vertical list of tasks that users can check off. When checked, the task should turn gray and move to the bottom."

Vibe Coding Best Practices

For Beginner Developers

4

Use "Save Points" (Version Control)

Because the AI can write hundreds of lines of code in seconds, it can also break your project just as fast.

Practice: Save your progress every time a feature works. If the next "vibe" breaks the app, you can instantly revert to the working version.

Vibe Coding Best Practices

For Beginner Developers

5 Verify the “Vibe” with Security

Ensure your code is safe. AI often forgets to secure data.

Cisco Best Practice: Use Cisco’s Secure AI Framework guidelines. If your app handles user data, explicitly ask the AI: “Check this code for security vulnerabilities.”

Vibe Coding Best Practices

For Beginner Developers

6 Read the Code as You Go

Vibe coding isn't about ignoring the code; it's about letting the AI do the heavy lifting.

Practice: When AI generates code, look at it. Ask the AI, "Can you explain what this specific function does?" This is the fastest way to learn how to actually code while you build.

Vibe Coding Best Practices

For Beginner Developers

7 Provide “Context” Files

AI works best when it knows your preferences.

Practice: Create a simple file named README.md or .myrules in your project folder. Write down your preferences, such as: “Keep the code simple and add comments to every line.”

Environment Setup



Děkujeme za Vaši pozornost

Následující Tech Club webinář:

12.5.2026 Jak se neztratit v oblasti Cisco Services – základy

Přednášející: Pavol Michalík, Peter Morvay

Registrovat se můžete na oficiálním webu **Cisco Tech Club webináře**



Následující webinář



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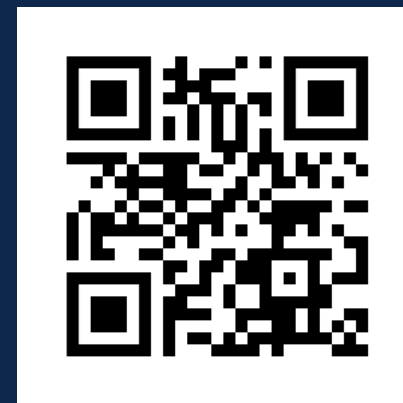
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