

MidPoint Community Meetup 2025

**Evolveum MidPoint Chatbot** 

Evolveum

Michal Abaffy

Senior DevOps Engineer at Evolveum

# **Agenda**

- Objective
- Why This Initiative Matters
- Current State
- Problems
- Proposed Solution
- Solution
- Conclusion







# **Objective**

- Create a privacy-preserving tool utilizing open-source AI models:
  - Supportive companion for open source communities
  - Efficiently locate relevant information
  - Answer related to Identity Management (IdM), with a particular focus on Evolveum midPoint.







# **Why This Initiative Matters**

- **Seamless Integration**: Empower users and partners to integrate midPoint effortlessly.
- **Enhanced Usability**: Transform midPoint into a more user-friendly platform, making advanced features accessible for everyone.
- Cost Efficiency: Streamline low-level support while reducing operating costs, driving both productivity and profitability.
- Bridging Skill Gaps: Eliminate barriers by providing critical product insights to users.







#### **Current State: Docs**

#### **Evolveum Docs** MidPoint IAM Introduction Book Identity Connectors Talks Search Identity and Access Management **Site Sections** Book MidPoint MidPoint Book **Identity Connectors** • Identity and Access Management Introduction Support MidPoint Trainings Configuration reference Evolveum MidPrivacy initiative Community MidScale Library MidPoint Studio Case Studies MidPoint developer zone Talks MidPoint-related tools Glossary MidPoint Exercises Frequently Asked Questions About · Community and participation Identity Connectors Evolveum Talks Evolveum Library • Frequently Asked Questions **Other Information Sources** • MidPoint Issue Tracking (OpenProject) MidPoint Mailing Lists Copyright

licensing guidelines for detailed explanation.

Content of this site is licensed under CC BY-NC-ND, which allows quite a broad use of the documentation. Please see our copyright and





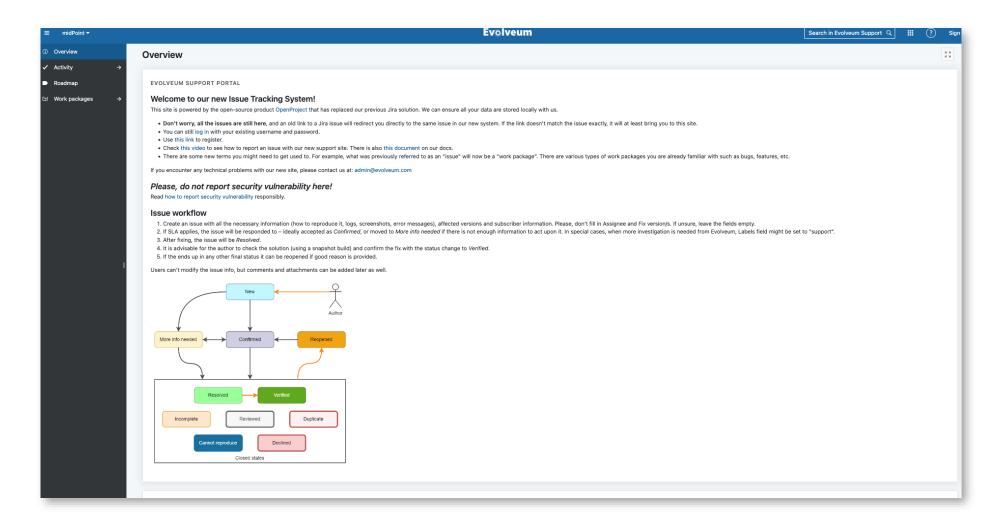
# **Current State: Book**







## **Current State: Support**







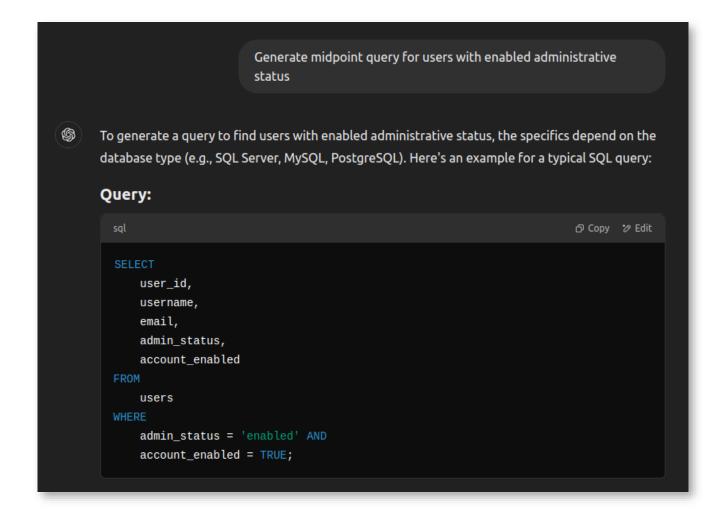
# **Current State: Mails**

midPoint midPoint General Discussion
About midPoint  English (USA)
Mailing list for a general discussion about <b>midPoint</b> , the leading open source identity governance and administration platform.
The list is intended for a general discussion regarding all technological topics about midPoint. You can ask questions about midPoint, discuss ideas, share your experience or post general comments on midPoint. The list is a primary communication channel for midPoint community.
Please follow community guidelines when using the list. Posting to the list is allowed only to list members. List archives are available publicly. Unsolicited advertising and similar "spam" content is not allowed. Discussing commercial services related to midPoint is allowed (even encouraged) as long as it is done in respectful and unobtrusive manner.
MidPoint core developers and part of Evolveum staff is subscribed to the list, and participates in communication. However, the list is only a best effort service and there are no guarantees. Evolveum staff responds to the list whenever they have time to spare from their day-to-day work. Do not expect immediate answers (or any answer at all). This list is <b>not</b> a replacement for Evolveum commercial services. Our software is free, our services are not. Please be respectful.
To see the collection of prior postings to the list, visit the <u>midPoint Archives</u> .
Using midPoint
To post a message to all the list members, send email to <a href="midpoint@lists.evolveum.com">midpoint@lists.evolveum.com</a> .
You can subscribe to the list, or change your existing subscription, in the sections below.
Subscribing to midPoint
Subscribe to midPoint by filling out the following form. You will be sent email requesting confirmation, to prevent others from gratuitously subscribing you. This is a hidden list, which means that the list of member available only to the list administrator.
Your email address:
Your name (optional):
You may enter a privacy password below. This provides only mild security, but should prevent others from messing with your subscription. <b>Do not use a valuable password</b> as it will occasionally be emailed back to you in cleartext.
If you choose not to enter a password, one will be automatically generated for you, and it will be sent to you once you've confirmed your subscription. You can always request a mail-back of your password when you edit your personal options.
Pick a password:
Reenter password to confirm:





#### **Current State: GPT-40**







#### **Problems**

- Difficulty obtaining direct answers to questions in understandable language.
- Long wait times for quick responses.
- Existing chatbots possess extensive knowledge but lack depth in specific areas.
- While we have a vast knowledge base in Identity
   Management (IdM) and midPoint, we lack the resources
   to engage users in their native languages.







### **Proposed Solution**

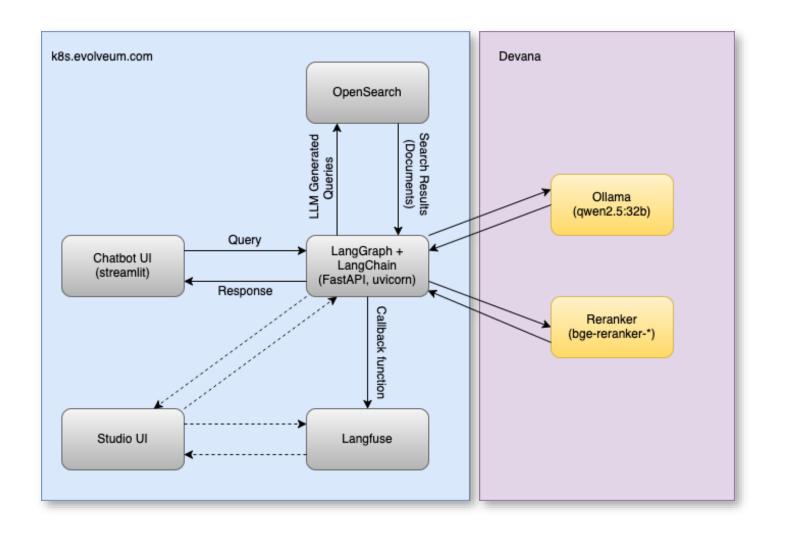
- 1. Implement semantic search to allow users to find relevant information even with vague or incorrect keywords.
- 2. Develop a user interface (UI) for seamless interactions with our knowledge base.
- 3. Integrate Retrieval-Augmented Generation (RAG) and chat functionalities for natural language interactions that provide answers from a knowledge base.
- 4. Design the solution as a frontend-backend application, distributed as a pre-configured containerized solution.
- 5. Ensure user privacy by utilizing self-hosted open-source software (OSS) models, avoiding third-party APIs.







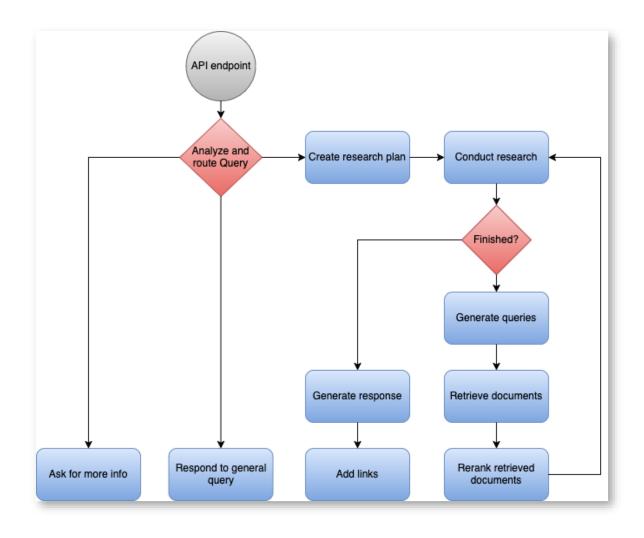
# **Solution: Architecture**







# **Solution: Pipeline**

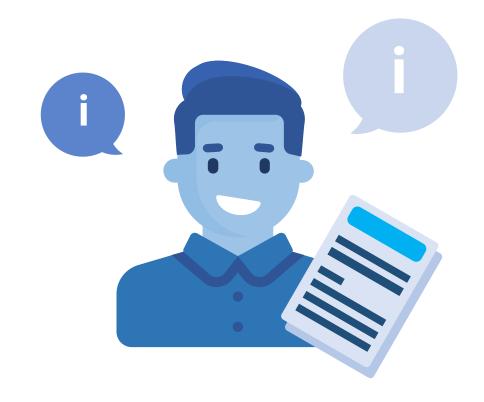






# **Solution: Target Users**

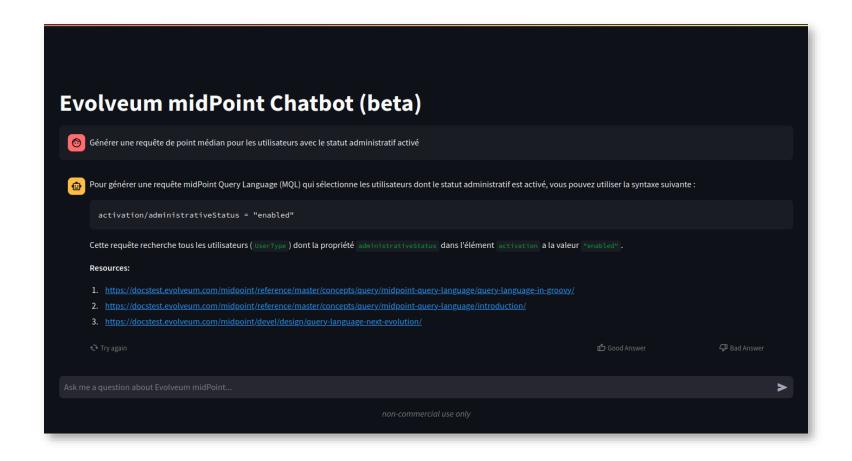
- Our solution is designed with the vision to enhance midPoint's ecosystem for:
  - **Tech Newbies**: Simplifying the first steps and fostering early adoption.
  - Seasoned Engineers: Supporting technical consultants, integrators, and advanced users.
  - **Operators**: Interactive operational manual to resolve errors and problems.







### **Conclusion**







# **Evolveum**Thank you for your attention

Feel free to ask your questions now!

