



adorsys

IKAS: AI meets Identity

*Managing Keycloak with Natural Language via MCP using **Intelligent Keycloak Admin System (IKAS)***

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A little bit about us

Marcel Meyer



- Technology Lead and Senior Solution Architect @Adorsys
- Enthusiastic about software and adrenaline alike

Vishwang Dave



- Data Scientist and AI engineer @ Adorsys
- D&D aficionado with a penchant for storytelling with Data

Agenda

1

MCP

2

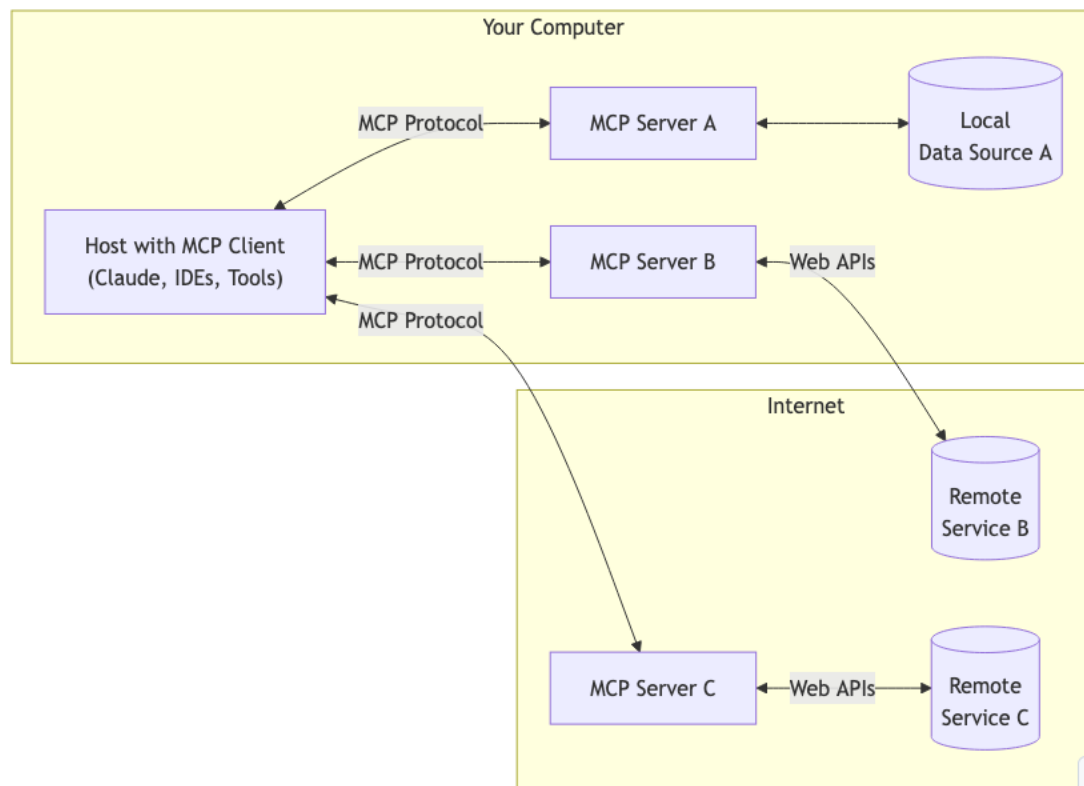
Architectural Overview

3

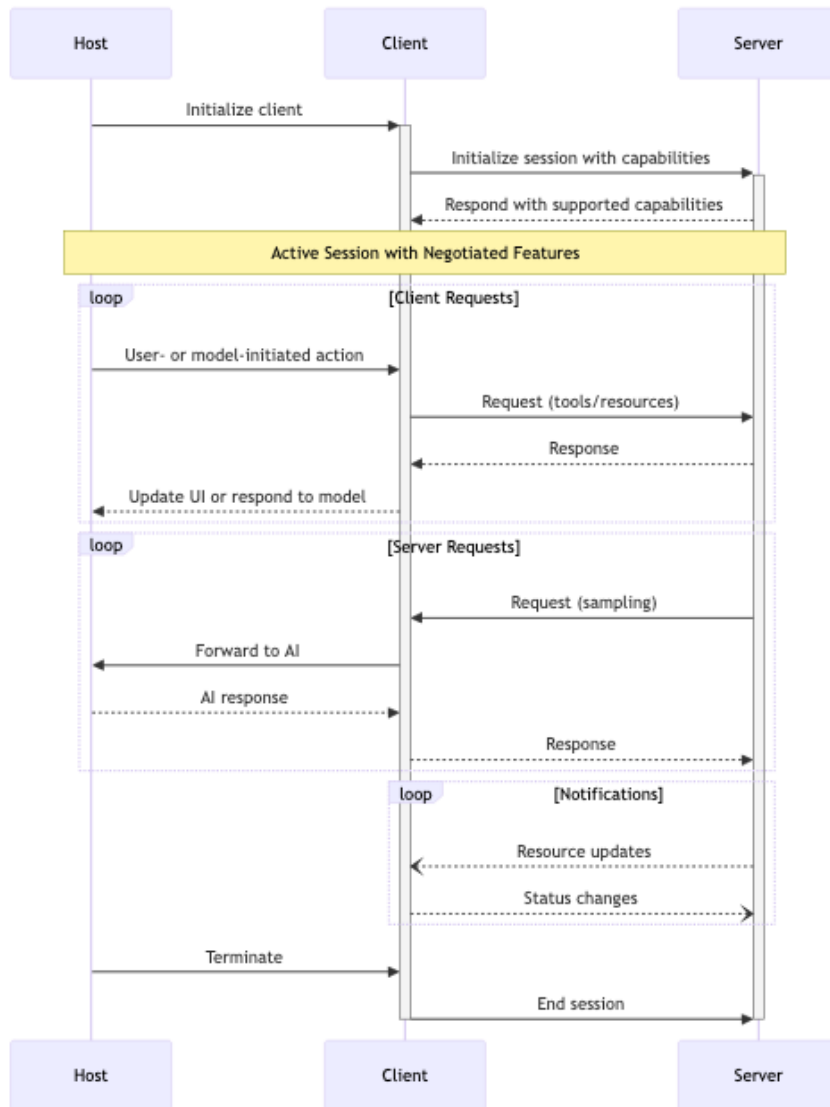
Keycloak + MCP development

Model Context Protocol: USB-C for AI

- Open standard for connecting AI models to external tools and data sources
- JSON-RPC protocol enabling secure, type-safe AI-to-system communication



MCP Request/Response Flow



- LLM discovers available tools via `list_tools` request
- LLM executes functions via `call_tool` with validated parameters
- Server returns structured JSON responses with type safety
- Works with Claude Desktop, OpenAI APIs, custom AI applications

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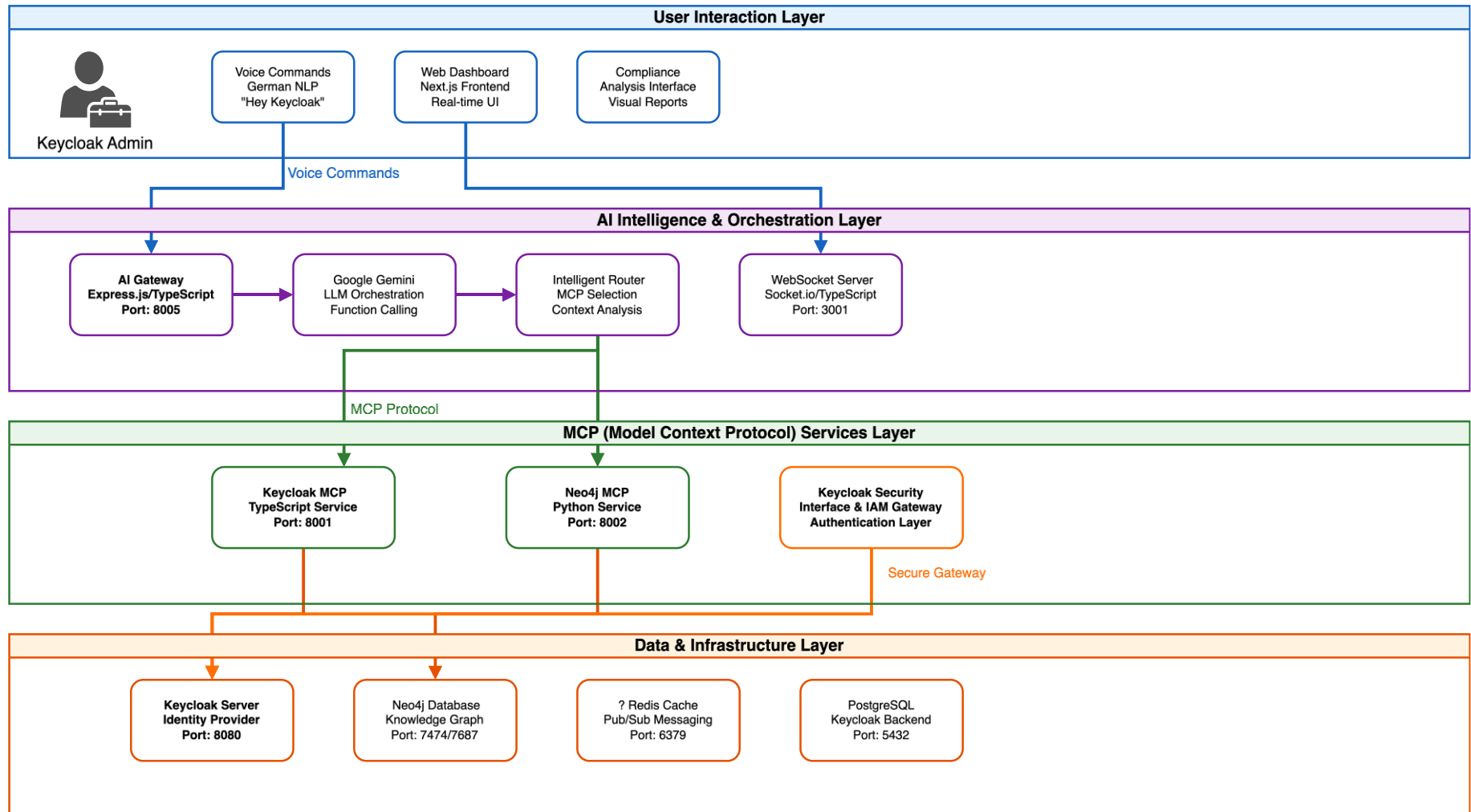
IKAS deep-dive



Architecture overview: IKAS

IKAS - Intelligent Keycloak Admin System

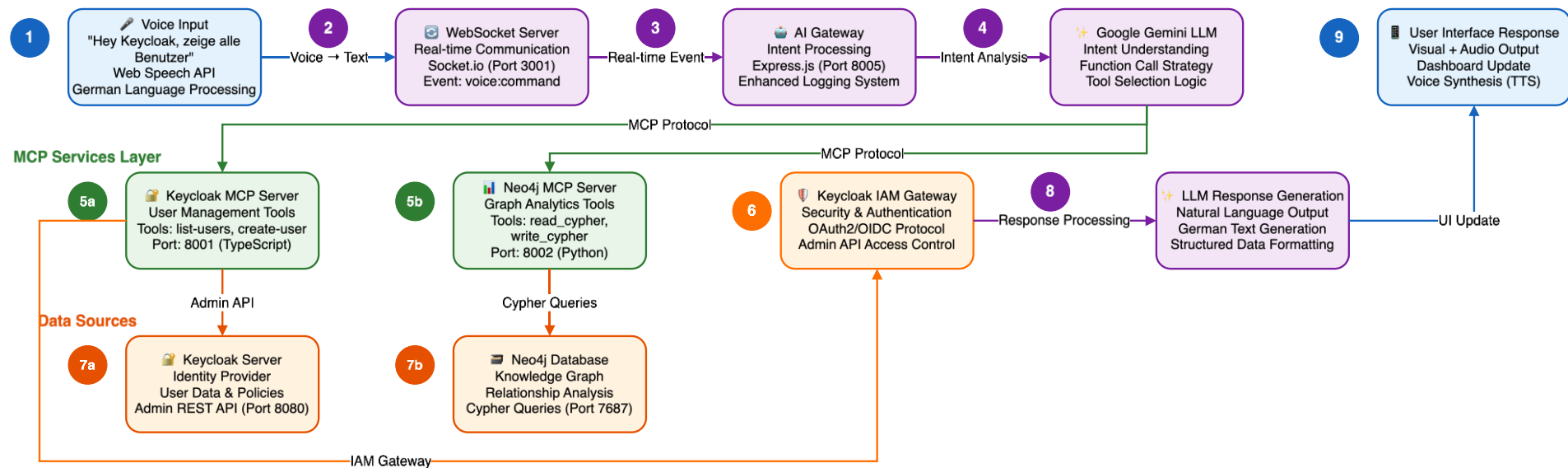
AI-Powered Keycloak Administration with MCP Integration & Secure Interface



Flow Diagram for IKAS

IKAS Request Flow - From Voice Command to Keycloak Response

Example: "Hey Keycloak, zeige alle Benutzer" → User List with Compliance Analysis



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Possible Use Cases

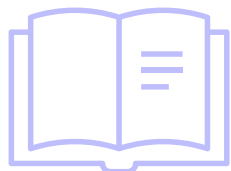
Compliance analysis

Securely Managed Intelligent MCP server

Secure connection of Keycloak with current AI system



GDPR Data Subject
Requests



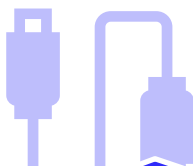
Policy Drift Detection



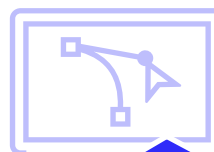
Audit Trail Analysis



Automates tedious
quarterly access reviews



MCP Tool
Authorization



Enterprise
LLM
Integration:



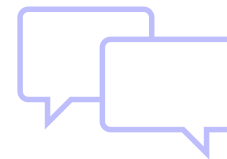
Zero Unauthorized
Tools



Centralized MCP
Governance



Development Toolchain
Integration



ChatOps for Identity
Management



Business Intelligence
Dashboards



Automated Security
Response

Questions?



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