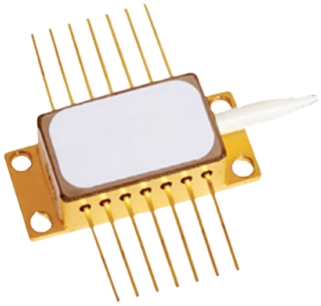
AI Server Integration



Overview

Data center modernization – AI server integrationLearn how to retrofit your data center for AI servers with expert tips on power, cooling, and scalability.

Key Takeaways

Server AI integration enables AI models and agents to interact with databases, tools, and enterprise systems through standardized protocols like MCP or native database AI features.

Overview of A

I Integration on ServersServer AI integration involves connecting AI models, such as large language models (LLMs), to server-side resources, databases, and enterprise applications. This allows AI to access, process, and act on data directly from the server environment, improving efficiency and reducing the need for separate application layers.

Key Approaches

Model Context Protocol (MCP)MCP is a standardized protocol that allows AI agents to interact with external tools and resources in a structured way. Architecture: MCP follows a client-server model: MCP Clients: Embedded in applications or AI assistants to communicate with servers.

MC

P Servers: Provide tools, resources, and capabilities, exposing APIs for AI models.

MC

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P Hosts: Applications initiating AI interactions.

MC

P servers can manage databases, file systems, APIs, and productivity tools, enabling AI to perform tasks like querying data, sending emails, or updating calendars. Examples include Azure MCP Server, Snowflake-managed MCP server, and Amazon Bedrock MCP servers.

SQL Server A

I IntegrationSQL Server 2025 introduces native AI integration, allowing AI services to be called directly from T-SQL using sp_invoke_external_rest_endpoint. Features include: Vector data type and DiskANN indexing for efficient similarity search. Fabric mirroring for real-time replication to cloud analytics.

Retrieval-

Augmented Generation (RAG) support for LLMs to access database content dynamically. This approach enables semantic search, sentiment analysis, and AI-driven workflows without separate application layers.

Long-

Running AI Tasks

For AI agents performing extended operations, context messaging and asynchronous task management are used to maintain server-client communication and prevent timeouts. Context messaging sends periodic updates (“heartbeat”) to keep connections alive. Async task management allows tasks to run in the background, supporting fire-and-forget operations and persistent state management.

Practical Use Cases

Enterprise Knowledge Integration: AI assistants can connect to internal knowledge bases or PMS systems using MCP servers, reducing integration time and costs. Banking and Finance: Secure MCP servers enable AI-driven core banking operations.

Cloud and On-

Premises Hybrid: SQL Server 2025 and Snowflake MCP servers allow AI integration in both on-premises and cloud environments, supporting compliance and data sovereignty. Developer Tools: MCP servers can expose GitHub, Microsoft 365, or Dev Box operations to AI agents for automated workflows.

Benefits

Standardized Integration: MCP provides a consistent interface for AI to access tools and data. Reduced Development Time: Pre-built MCP servers and native database AI features accelerate deployment. Scalability: Supports enterprise-scale AI operations, including long-running tasks and vector-based searches.

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Security and Governance: Role-based access control, OAuth authentication, and least-privilege principles ensure safe AI interactions.

Conclusion

Server A

I integration leverages protocols like MCP, native database AI features, and asynchronous task management to enable AI models to interact seamlessly with enterprise systems. Organizations can implement AI-driven workflows, semantic search, and automated operations while maintaining security, scalability, and real-time data access. This approach transforms AI from isolated tools into integrated, enterprise-ready agents capable of performing complex tasks directly on server infrastructure.

Article Content

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Use MCP servers with Azure Data Explorer (preview)

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Servers for building AI agents MCP support for Azure Data Explorer is a full open-source MCP server integration. It supports natural language queries and allows agents to discover schemas

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In SuiteAnswers you can find information about How to connect ChatGPT to NetSuite using the NetSuite AI Connector service. For other AI agents, you must adjust the instructions accordingly, and before

Vision MCP Server

The Visual Understanding MCP Server is an exclusive Local MCP Server developed by Z.AI for GLM Coding Plan users. Built on the Model Context Protocol (MCP), it connects to Z.AI GLM-4.6V to

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