

Let's build an MCP Server for our on premise Jira Instance



<https://github.com/365knoten/MCPJira>



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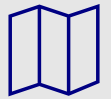
team neusta



1.300 + Employees



Founded in 1993



DACH Region



28 Companies





JIRA



Backlog

QUICK FILTERS: [Only My Issues](#) [Recently Updated](#)

Board ▾

VERSIONS
EPICS

▼ Mars Landing! 6 issues

Start Sprint



- ✓ = TIS-1 Spaceship tracker app updates 8.0 Mars Landing
- ✓ = TIS-2 Verify the landing site
- 📌 = TIS-3 Enter the landing trajectory into the landing module Mars Landing 1
- 📌 = TIS-4 Send the pre-landing report to Earth Mars Landing 1
- 📌 = TIS-5 Cleanup the landing site Mars Landing 2
- 📌 = TIS-6 Hire the team 5

+ Create issue

6 issues Estimate 9



Backlog 5 issues

Create Sprint



- ✓ = TIS-10 Complete ignition tests
- 📌 = TIS-11 Prepare for the Saturn Shoot Saturn Shoot
- 📌 = TIS-12 Design a new rocket Saturn Shoot
- ✓ = TIS-13 Get Hubble working again Space Exploration
- 📌 = TIS-14 Research the Space Exploration project Space Exploration

+ Create issue



Teams in Space / TIS-1



Spaceship tracker app updates

▼ Details

Status: **TO DO** (View Workflow)

Priority: = Medium

Component/s: Spaceship

Labels: rocket software

Affects Version/s: None

Fix Version/s: 8.0

Epic Link: Mars Landing

▼ People

Reporter: Captain Joe

Assignee: Master Engineer

[Assign to me](#)

▼ Dates

Created: 40 minutes ago

Updated: 2 minutes ago

▼ Description

[Click to add description](#)

▼ Comments

There are no comments yet on this issue.



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er by title

Jira Cloud

Setup

Troubleshooting

> Jira Data Center

> Coda Enterprise

> CSV

> Egnyte

> Enterprise websites Cloud

> Enterprise websites on-
premises

> File Share

> GitHub



> GitLab (preview)

> Gong (preview)

> Google Drive

Download PDF

... / Set up prebuilt connectors /

 Ask Learn Focus mode

In this article

Capabilities

Limitations

Prerequisites

Get started

Custom setup

Troubleshooting

Atlassian Jira Cloud Copilot connector

05/21/2025

The Atlassian Jira Cloud Microsoft 365 Copilot connector allows your organization to index Jira issues. After you configure the connector and index content from the Jira site, end users can search for those items in Microsoft Search and Microsoft 365 Copilot.

This article is for Microsoft 365 administrators or anyone who configures, runs, and monitors an Atlassian Jira Cloud Copilot connector.

Important

The Atlassian Jira Cloud Copilot connector supports **only Jira cloud-hosted** instances. Jira Server and Jira Data Center versions are not supported by this connector.

Filter by title

Jira Data Center

Setup

> Coda Enterprise

> CSV

> Egnyte

> Enterprise websites Cloud

> Enterprise websites on-
premises

> File Share

> GitHub



> GitLab (preview)

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> iManage

... / [Set up prebuilt connectors](#) / Ask Learn Focus mode

⋮

In this article


[Capabilities](#)[Prerequisites](#)[Get started](#)[Custom Setup](#)[Review and test your connection](#)[Troubleshooting](#)

Atlassian Jira Data Center Microsoft 365 Copilot connector (preview)

08/15/2025

The Jira Data Center Microsoft 365 Copilot connector enables your organization to index Jira Data Center issues and related data, making them easily discoverable and actionable within the Microsoft 365 ecosystem.

This article is intended for Microsoft 365 administrators who are responsible for configuring, running, and monitoring the Jira Data Center Microsoft 365 Copilot connector. It supplements the general instructions provided in [Set up Microsoft 365 Copilot connectors in the Microsoft 365 admin center](#).

[Download PDF](#) Note

Great, but...

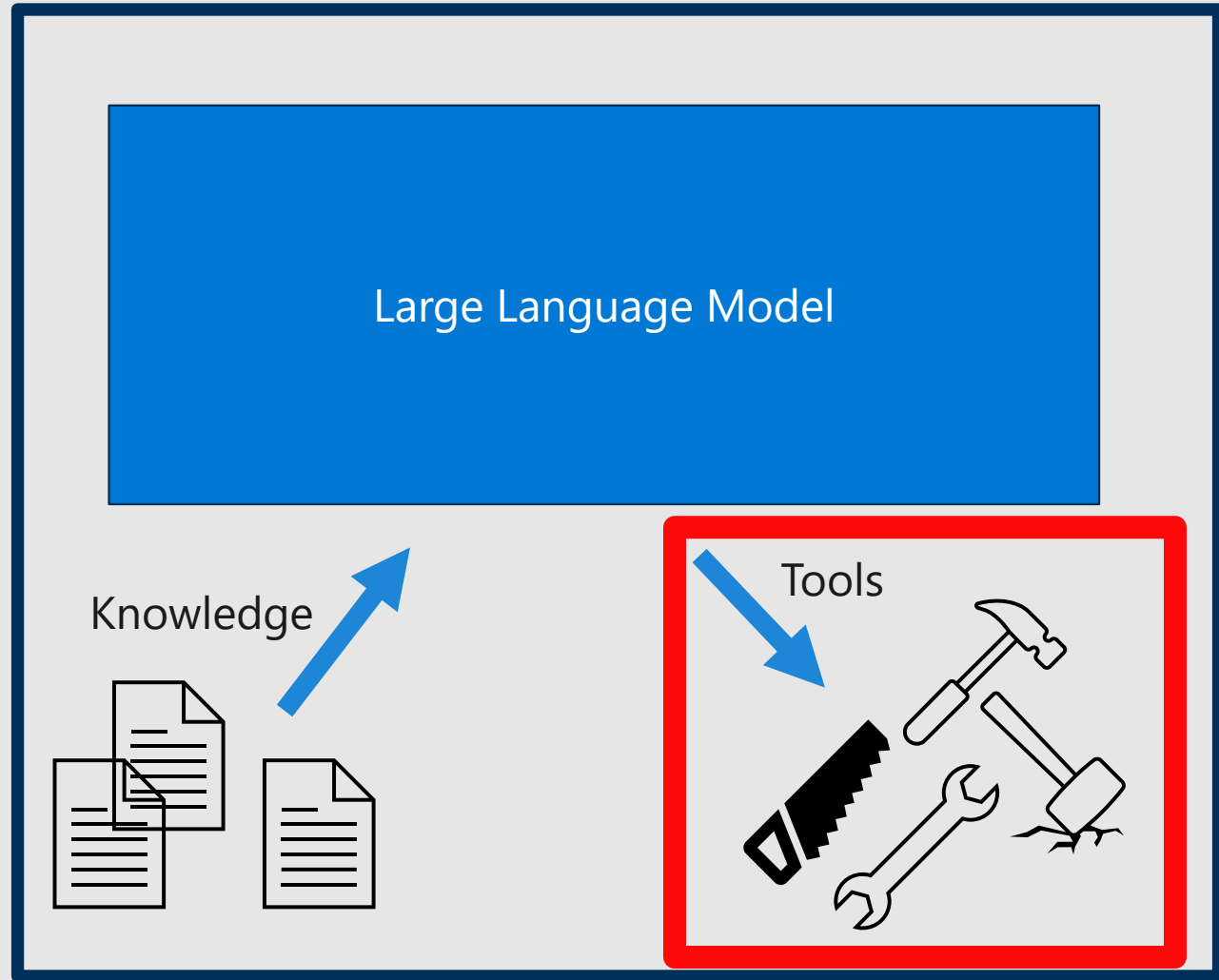
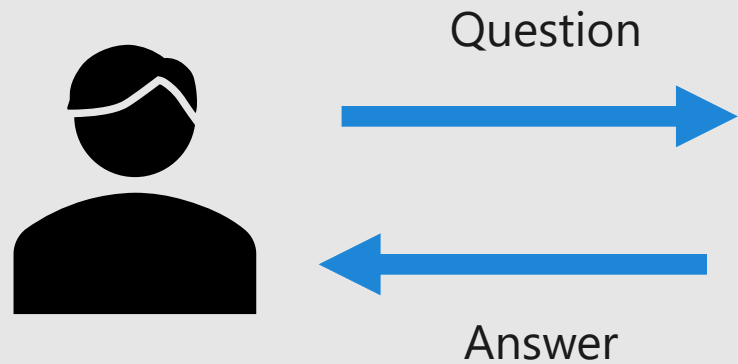
Stuff to do:

- Map Identities
- Configure SSO
- What about our guest Users?
- Does every Company want this?
-

But I want it
now !

Let's build
our own
MCP Server

Agent



Model

Context

Protocol

Get started

What is MCP?

About MCP

Architecture

Servers

Clients

Versioning

Develop with MCP

Connect to local MCP servers

Connect to remote MCP Servers


Build an MCP server

Build an MCP client

SDKs

Get started

What is the Model Context Protocol (MCP)?

 Copy page

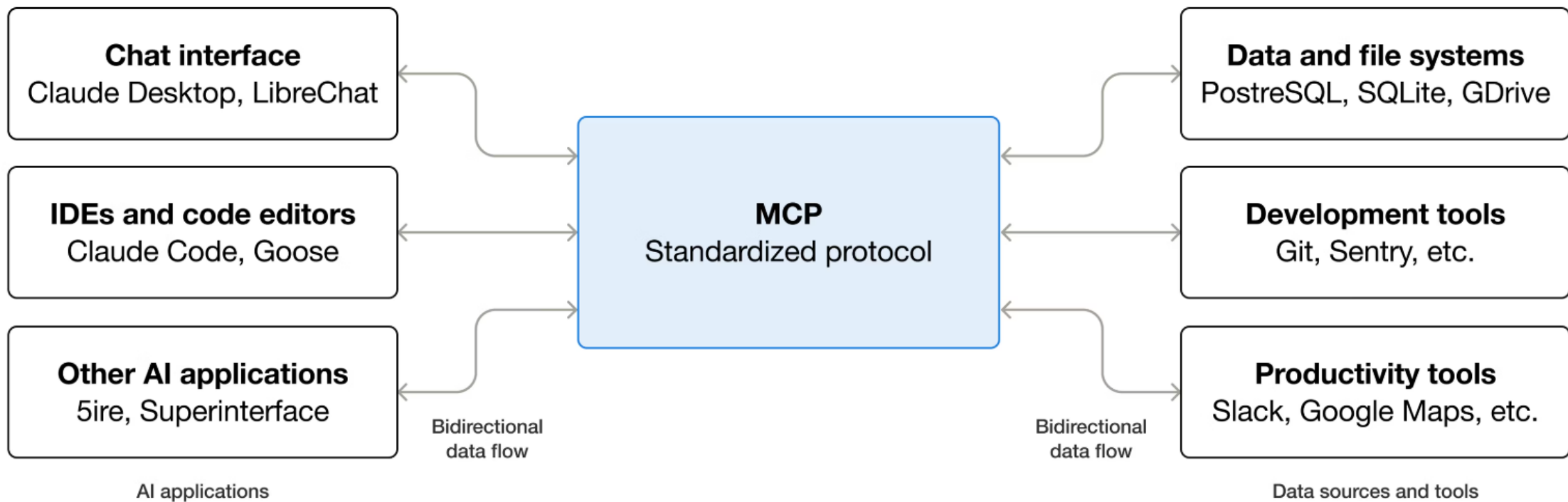
MCP (Model Context Protocol) is an open-source standard for connecting AI applications to external systems.

Using MCP, AI applications like Claude or ChatGPT can connect to data sources (e.g. local files, databases), tools (e.g. search engines, calculators) and workflows (e.g. specialized prompts)—enabling them to access key information and perform tasks.

Think of MCP like a USB-C port for AI applications. Just as USB-C provides a standardized way to connect electronic devices, MCP provides a standardized way to connect AI applications to external systems.

<https://modelcontextprotocol.io/>





Local MCP Server

- Uses stdio as transport
- Runs on the same PC as the AI app
- Can access local resources on the client
- i.e. Github Copilot, Claude Desktop

Remote MCP Server

- Uses HTTP as transport
- Runs on a server
- Can be shared by multiple users online
- i.e. ChatGpt, Copilot

```

10  "servers": {
11      "Jira": {
25  },
    >Start | 3 tools | More...
26  "JiraSSE": {
27      "url": "http://localhost:5000",
28      "type": "sse",
29      "headers": {
30          "X-API-KEY": "${input:api-key = *****}"
31      }
32  },
    >Start | 3 tools | More...
33  "JiraAzure": {
34      "url": "https://jiramcp-hbfcczbpecbehtdp.germanywestcentral-01.azure
35      "type": "sse",
36      "headers": {
37          "X-API-KEY": "${input:api-key = *****}"
38      }
39  }
40  }
41  }

```

Add Server...

CHAT

Used 1 reference

Here are all Jira Issues in the current sprint that are assigned to you and are still open:

- T2007000-0001 [402] Generalist Weekly 25.09.2025 (Status: Open)
- T2007000-0002 [402] Weiterführung Governance & Compliance 25.09.2025 (Status: Open)
- T2007000-0003 [402] Brainstorming Email 22.09.2025 (Status: In Progress)
- T2007000-0004 [402] Interner Kommunikation 22.09.2025 (Status: Open)
- T2007000-0005 [41] AI Design Sprint by team results - Abstimmungsgrundlage 25.09.2025 (Status: Open)
- T2007000-0006 [402] Weekly AI 26.09.2025 (Status: Open)
- T2007000-0007 [402] Weiterführung Generalist 25.09.2025 (Status: Open)
- T2007000-0008 [402] Weiterführung Hamburgernews 25.09.2025 (Status: Open)
- T2007000-0009 [402] Weiterführung W&L 23.09.2025 (Status: Open)
- T2007000-0010 [402] Erstellung MP 23.09.2025 (Status: Open)
- T2007000-0011 [402] Erstellung Generalist 23.09.2025 (Status: Open)
- T2007000-0012 [402] LGH F&E 23.09.2025 (Status: Open)
- T2007000-0013 [402] Erstellung W&L 22.09.2025 (Status: In Progress)
- T2007000-0014 [402] Erstellung W&L 22.09.2025 (Status: In Progress)
- T2007000-0015 [402] Aufbereitung Offener Projektziele 22.09.2025 (Status: In Progress)
- T2007000-0104 [402] Themen-Matrix Priorisierung, Strategien etc. 23.09.2025 (Status: Open)
- T2007000-0000 [Intern] Organizational Aufbereitung M&M Website 26.09.2025 (Status: Open)
- T2007000-0000 [402] AI Definition neuer Produkte 26.09.2025 (Status: Open)
- T2007000-0000 [402] Login mit Helpdesk Wissen 26.09.2025 (Status: Open)
- 0007-00000 1104 Newsletter Mail verschicken (Status: In Progress)
- 0007-00000 1106 Klärung, wo das Deployment der AI Schnittstelle stattfindet (Status: Open)
- 0007-00000 1110 Ausbau der Mail Informationen und Übermittlung an GISA Richard (Status: In Progress)

If you need details for a specific issue, let me know the issue key!



 Add Context... mcp.json:21

Add context (#), extensions (@), commands (/)

Jira ▾ GPT-4.1 ▾



List all issues that are assigned to me and that are still open.
respond in english and format the results in a table

JiraAgent

Key	Title	Status	Priority
TEST-123-4567	[ABC] Greeting Weekly 25.09.2025	Open	Low
TEST-123-4568	[ABC] Weiterführung Governance & Compliance 25.09.2025	Open	Low
TEST-123-4569	[ABC] Interner Kommunikation 2.0 25.09.2025	Open	Low
TEST-123-4570	[ABC] AI Design Sprint by Team Alpha - Abkürzungenrunde 25.09.2025	Open	Low
TEST-123-4571	[ABC] Weekly AI 25.09.2025	Open	Low
TEST-123-4572	[ABC] Abrechnung Greeting 25.09.2025	Open	Low

Nachricht an Copilot



Prerequisites

- JQL-Jira Query Language
- Jira Rest API
- Jira Authentication

JIRA Query Language

- `assignee=currentuser()`
- `sprint in openSprints()`
- `status = „Open“`

- `assignee=currentuser()` and `sprint in openSprints()` and `status = „Open“`

JIRA Rest API

GET

`https://<myjirainstance>/rest/api/2/search?jql=status = „Open“`

POST

`https://<myjirainstance>/rest/api/2/issue`

```
{
  fields:
    {
      project: „MyProject“
      summary: „This is the title of the new issue“
    }
}
```

JIRA Authentication

- ~~Basic Auth~~ **Not Configured**
- ~~Custom cookie based authentication~~ **Looks complicated**
- ~~OAuth2~~ **Not Configured**
- API Key via PAT (Personal Access Token)

Search

Create a personal access token

Use personal access tokens as a safe alternative to authenticating with username and password.



Personal access tokens are as important as passwords and should be equally protected.

Token Name *

Number of characters remaining: 40

Permissions

Permission level of personal access tokens is set to the level of access you currently have.

Summary

Personal Access Token

Authorized applications

JIRA Rest API with PAT

GET

`https://<myjirainstance>/rest/api/2/search?jql=status = „Open“`

HEADERS: {Authorization: Bearer <PAT>}

MCP with dotnet core (old)

```
dotnet new console -n MyMcpServer
```

```
cd MyMcpServer
```

```
dotnet add package ModelContextProtocol --prerelease
```

```
dotnet add package Microsoft.Extensions.Hosting
```


MCP with dotnet core (new)

```
dotnet new install Microsoft.Extensions.AI.Templates
```

```
dotnet new mcpserver -n MyMcpServer  
cd MyMcpServer
```

Demo time!

Copilot Studio Integration

```
1  swagger: '2.0'
2  info:
3    title: MCP Server
4    description: A MCP to use our Jira Instance
5    version: 1.0.0
6  host: jiramcp-hbfcczbpecbehtdp.germanywestcentral-01.azurewebsites.net
7  basePath: /
8  schemes:
9    - https
10 consumes: []
11 produces: []
12 paths:
13   /:
14     post:
15       summary: MCP Server Streamable HTTP
16       x-ms-agentic-protocol: mcp-streamable-1.0
17       operationId: InvokeMCP
18       responses:
19         '200':
20           description: Success
21 definitions: {}
22 parameters: {}
23 responses: {}
24 securityDefinitions:
25   api_key:
26     type: apiKey
27     in: header
28     name: X-API-KEY
29 security:
30   - api_key: []
31 tags: []
32
```



<https://github.com/365knoten/MCPJira>

Thank you



<https://github.com/365knoten/MCPJira>



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