

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



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



Sven Sieverding

Microsoft 365 Consultant

HEC GmbH

sven.sieverding@hec.de



<https://www.linkedin.com/in/sven-sieverding/>



@365knoten

Blog: <https://www.365knoten.de/>

team neusta



1.300 + Employees



Founded in 1993



DACH Region



28 Companies





JIRA



QUICK FILTERS: Only My Issues Recently Updated

VERSIONS

EPICS



Mars Landing! 6 issues



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



TIS-4 Send the pre-landing report to Earth

Mars Landing



TIS-5 Cleanup the landing site

Mars Landing



TIS-6 Hire the team

Mars Landing



+ Create issue

6 issues

Estimate 9

...

["Dieses Foto"](#) von Unbekannter Autor ist lizenziert gemäß [CC BY-SA-NC](#)

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.



Filter 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)

> Gong (preview)

> Google Drive

> Guru

> 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](#).

Note

Download PDF

Great, but...

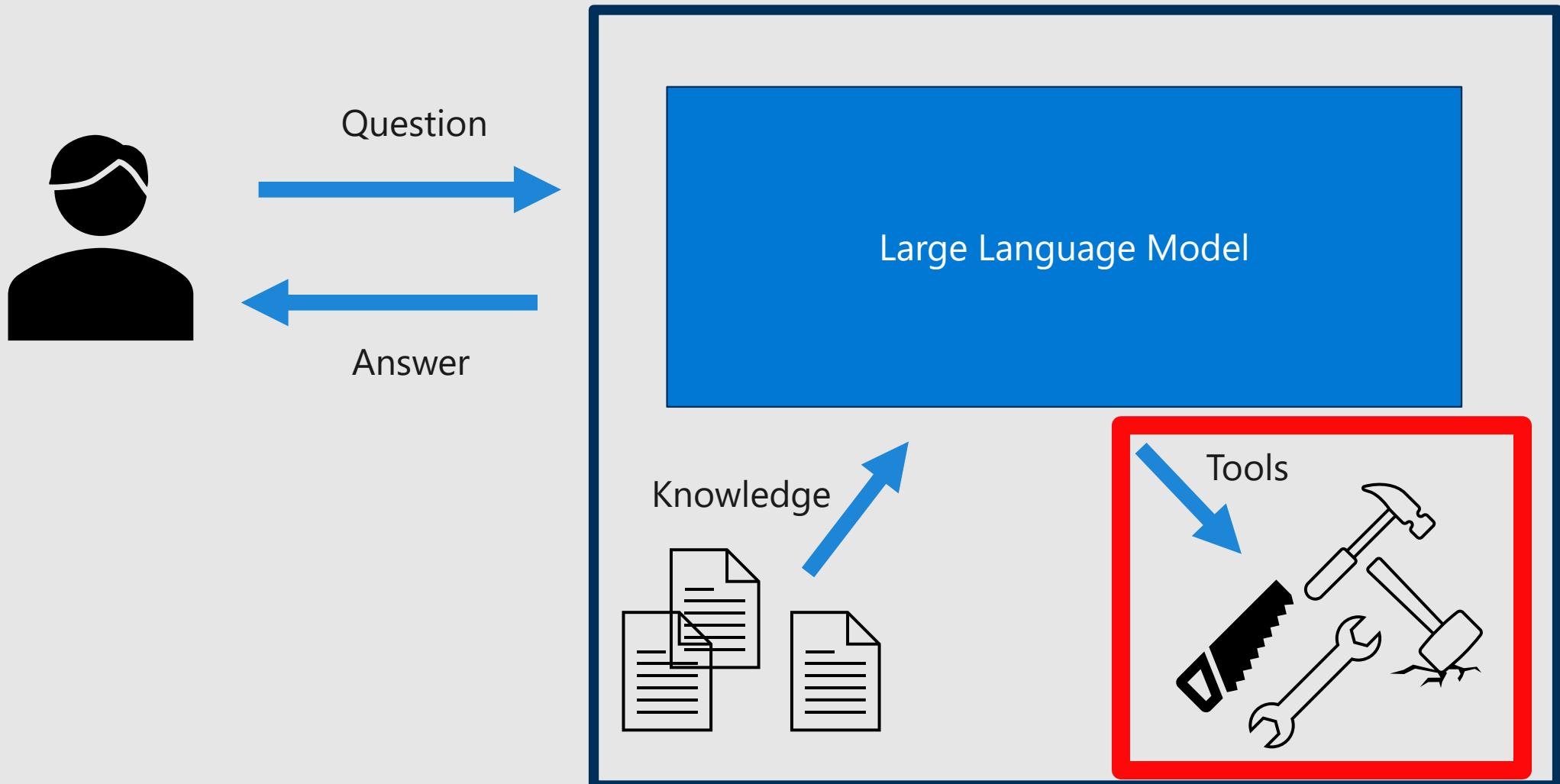
Stuff to do:

- 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)?

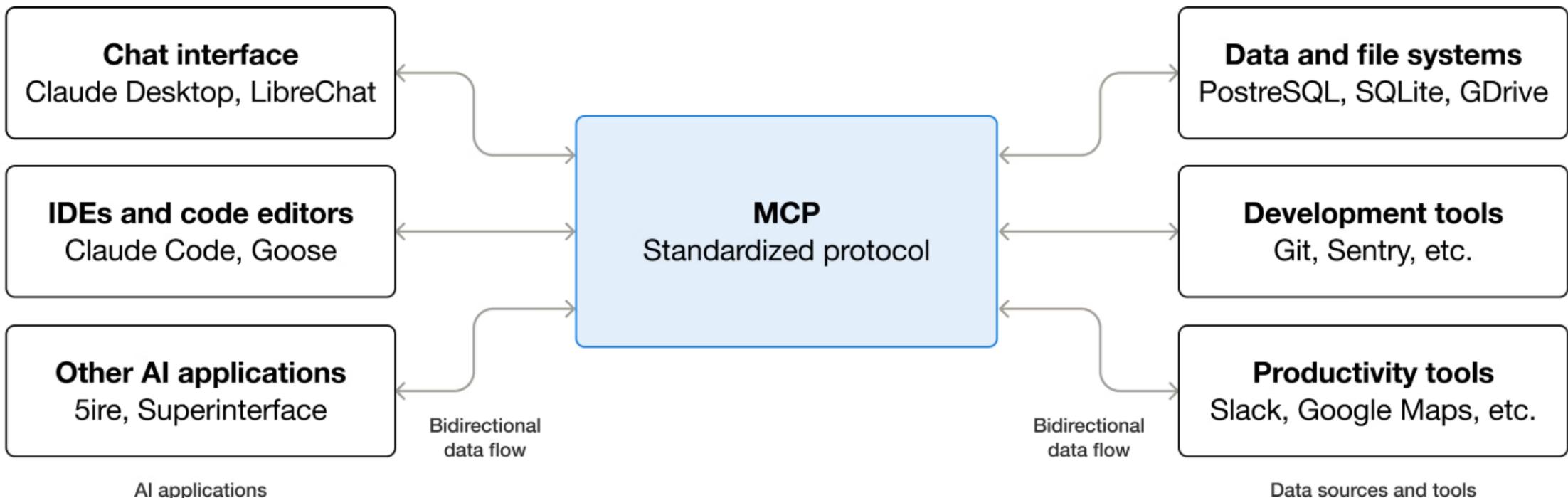
 [Copy page](#)

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.





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

LORER ...
avg... ⌂ ⌃ ⌁ ⌂
demo
github
vscode
copilot-instructions...
mcp.json
settings.json

```
10     "servers": {  
11         "Jira": {  
12             },  
13             ▶ Start | 3 tools | More...  
14             "JiraSSE": {  
15                 "url": "http://localhost:5000",  
16                 "type": "sse",  
17                 "headers": {  
18                     "X-API-KEY": "${input:api-key = *****}"  
19                 }  
20             },  
21             ▶ Start | 3 tools | More...  
22             "JiraAzure": {  
23                 "url": "https://jiramcp-hbfcczbpecbehtdp.germanywestcentral-01.azure...",  
24                 "type": "sse",  
25                 "headers": {  
26                     "X-API-KEY": "${input:api-key = *****}"  
27                 }  
28             }  
29         }  
30     }  
31 }
```

CHAT

> Used 1 reference

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

- T202001-0001 p012 Umstellung Monat 20.06.2021 (Status Open)
 - T202001-0002 p012 Weiterführung Governance & Compliance 20.06.2021 (Status Open)
 - T202001-0003 p012 Anstrengung (Invest) 22.06.2021 (Status In Progress)
 - T202001-0004 p012 interne Kommunikation 2.0 26.06.2021 (Status Open)
 - T202001-0005 p012 A Design Sprint by team results - Abschlussgrundsatz 25.06.2021 (Status Open)
 - T202001-0006 p012 Weekly A 26.06.2021 (Status Open)
 - T202001-0007 p012 Abschriftung (Dienstleistung) 25.06.2021 (Status Open)
 - T202001-0008 p012 Abschriftung Nachkommastellen 25.06.2021 (Status Open)
 - T202001-0009 p012 Abschriftung R&E 25.06.2021 (Status Open)
 - T202001-0010 p012 Entwicklung SP 25.06.2021 (Status Open)
 - T202001-0011 p012 Entwicklung Sonderfall 25.06.2021 (Status Open)
 - T202001-0012 p012 CBA R&E 25.06.2021 (Status Open)
 - T202001-0013 p012 Entwicklung R&E 22.06.2021 (Status In Progress)
 - T202001-0014 p012 Entwicklung R&E 22.06.2021 (Status In Progress)
 - T202001-0015 p012 Aufbereitung Daten zur Projektlokation 22.06.2021 (Status In Progress)
 - T202001-0104 p012 Themen Matrix Priorisierung, Strategie etc. 21.06.2021 (Status Open)
 - T202001-0006 [internal Organization] Aufbereitung LK0003 Webside 20.06.2021 (Status Open)
 - T202001-0007 p012 K Definition neuer Produkte 20.06.2021 (Status Open)
 - T202001-0008 p012 Long-term Budget Plan 20.06.2021 (Status Open)
 - 0001000001-1104 Bearbeitete Maßnahmenchecklisten (Status In Progress)
 - 0001000001-1105 Rückzug vor den Deployment der 15 Softwaretechnik ausführen (Status Open)
 - 0001000001-1119 Aufheben der Mai Information und Übermittlung an E2EA-Bereich (Status In Progress)

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



0 Add Context... { mcp.json:21 }

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

Jira × GPT-4.1 ×

LINE
ELINE
MO TIME
PILOT TASK
DETOUR

Suche

Chat

Agents

Recherche-Agent

Analyst

Idea Coach

JiraAgent

Svens Vertragsagent

Trello for Teams

Alle Agents

Agent erstellen

Unterhaltungen

List all issues that are assign...

welche issues sind mit im aktu...

gib mir alle Jira Issues, die mir ...

gib mir alle Jira Issues, die mir ...

gib mir alle Jira Issues, die mir ...

Alle Unterhaltungen

Seiten

Notebooks

Erstellen

Apps

Sven Sieverding

JiraAgent > List all issues that are assigned to me and that a



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
TEAM001-0001	[P0] Gestaltung Wieder 25.08.2023	Open	Low
TEAM001-0002	[P0] Weiterführung Governance & Compliance 25.08.2023	Open	Low
TEAM001-0003	[P0] Interne Kommunikation 25. 26.08.2023	Open	Low
TEAM001-0004	[P0] AI Design Sprint by Team Velocity - Abstimmungsergebnisse 25.08.2023	Open	Low
TEAM001-0005	[P0] Velocity 00 26.08.2023	Open	Low
TEAM001-0006	[P0] Abschaltung Gestaltung 25.08.2023	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)

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 *

Summary

Personal Access Token

Number of characters remaining: 40

Authorized applicati

Permissions

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

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 Microsoft.EntityFrameworkCore --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-agnostic-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>



Sven Sieverding

Microsoft 365 Consultant

HEC GmbH

sven.sieverding@hec.de



<https://www.linkedin.com/in/sven-sieverding/>



@365knoten

Blog: <https://www.365knoten.de/>