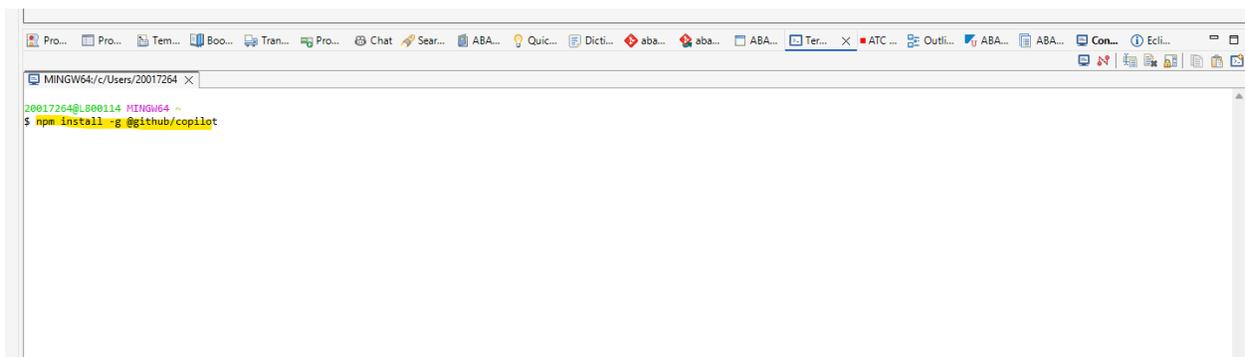# MCPs configuration in Github Copilot and Claude Code

1. Installation of Github Copilot CLI / Github Copilot for Eclipse Add On / Claude Code
2. Installation of MCP
3. Configuration of MCP in Github Copilot
4. Demo

1. Installation of Github Copilot CLI / Github Copilot for Eclipse / Claude Code
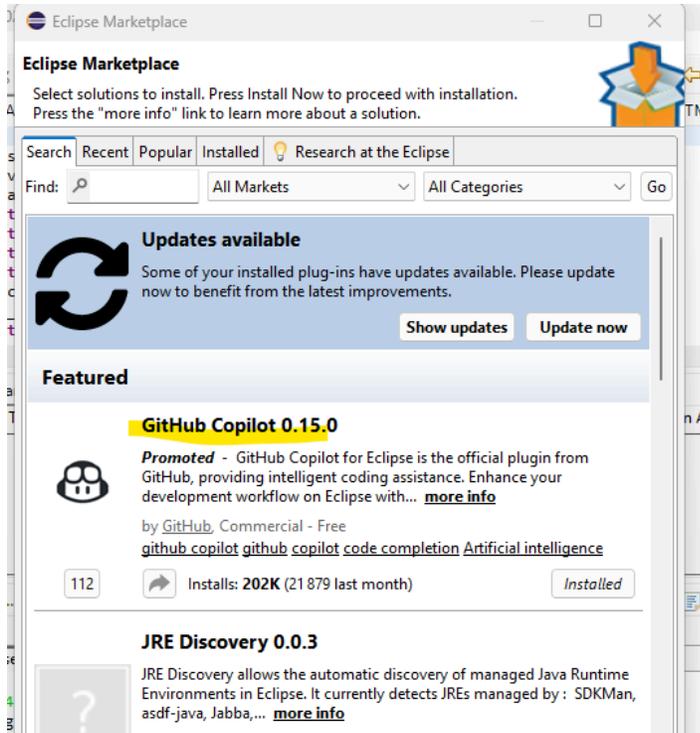
- Github Copilot CLI

Launch Terminal in Eclipse or in your preferred IDE (even in BAS) and launch command *npm install -g @github/copilot* :

- Github Copilot for Eclipse Add On

In the Eclipse MarketPlace, search for Github Copilot AddOn, and download it :

- Claude Code

Launch Terminal in Eclipse or in your preferred IDE (even in BAS) and launch command : *curl -fsSL https://claude.ai/install.sh | bash*

Note : Deprecated command *npm install -g @anthropic-ai/claude-code* also works

3. Installation of MCP

We will use 3 MCP :

mcp-sap-docs & abap-mcp-server : From Marian Zeis
vibing-steampunk : From Alice Vinogradova

For mcp-sap-docs & abap-mcp-server no installation needed (we will configure this MCPs later in the documentation)

Vibing-steampunk :

- Install Git Desktop : https://desktop.github.com/download/
- Then go to file -> Clone repository :
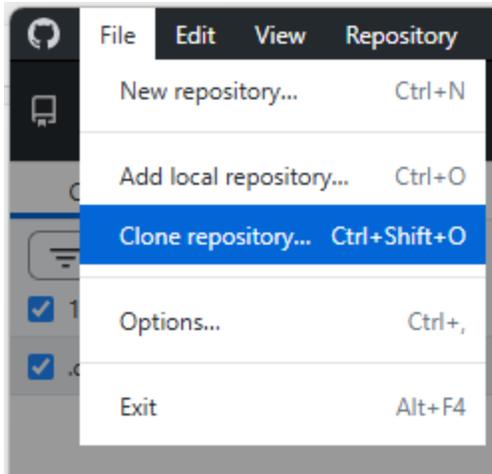
- Copy the URL
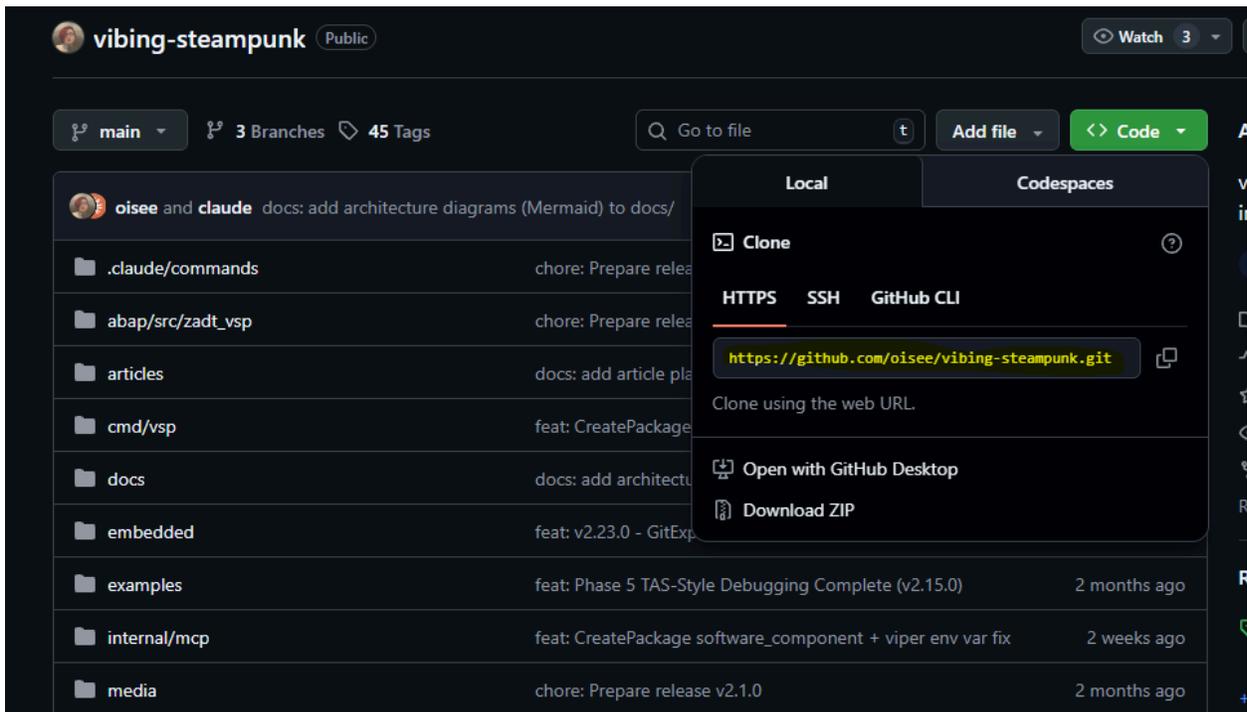
- And use it in the configuration & Also choose Local path to store the MCP
BE CAREFUL : The path will be used for the config of the agent later
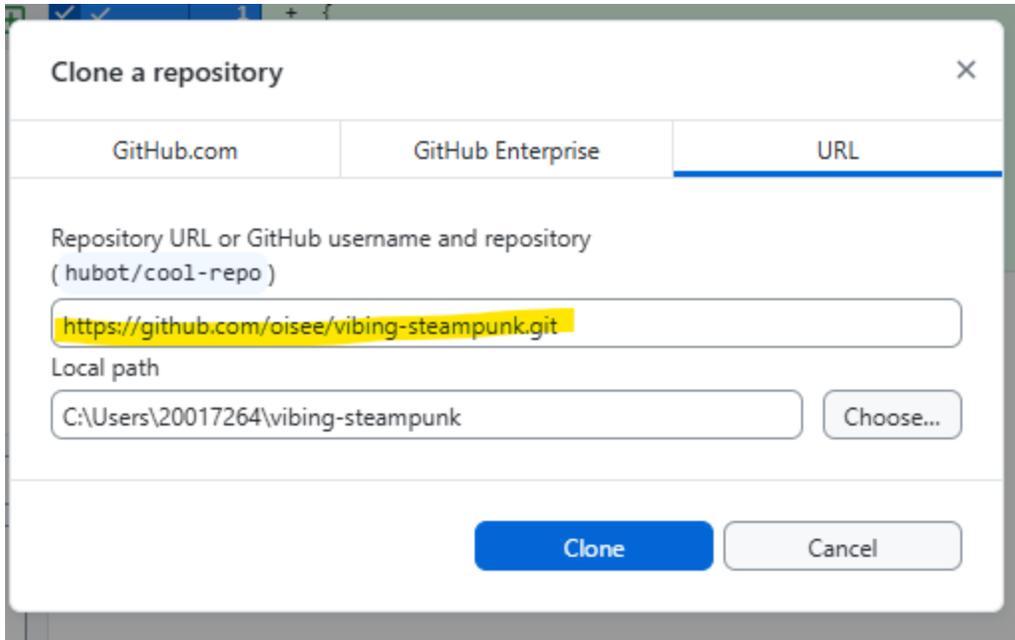
- Then clone it and you should see the main branch correctly pulled in your laptop
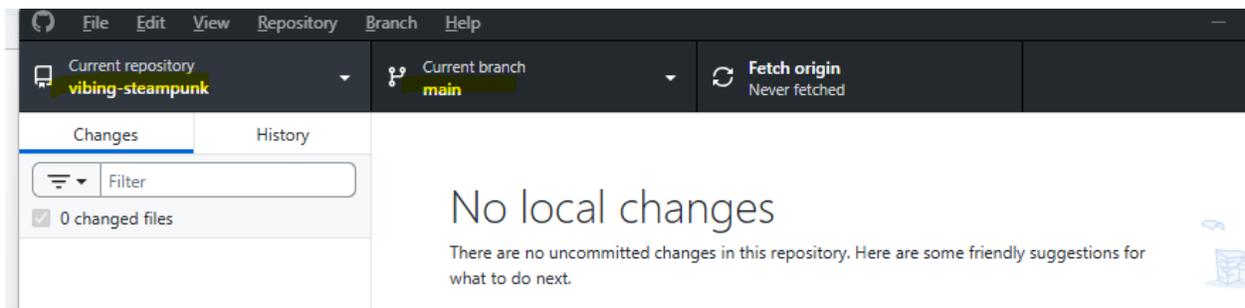
- Once the MCPs is installed - Go to Google Chrome and install extension
  https://chromewebstore.google.com/detail/get-cookiestxt-locally/cclelndahbckben
  kjhflpdbgdldlbecc

This extension is a prerequisite for downloading cookies of your SAP System using
SSO.

- Then create a file cookies.txt in your repository :
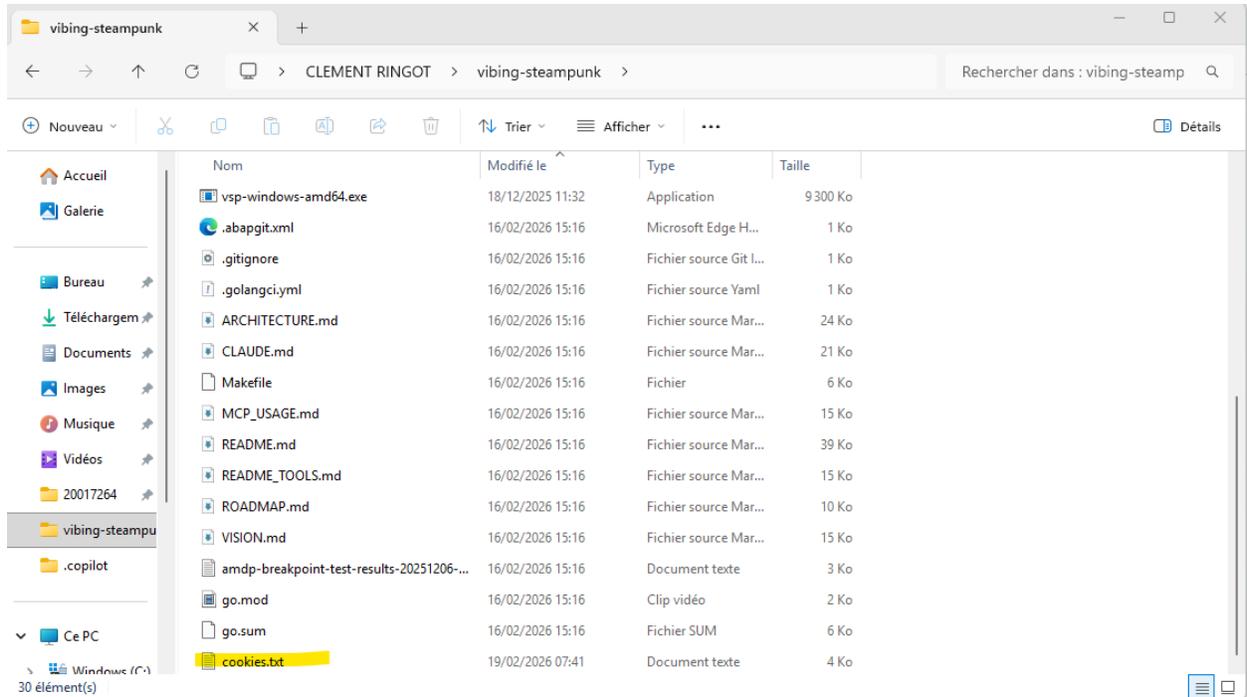
- Then on google chrome connect to your system using URL to your system
- Once your connected, copy/paste cookies in the new files you just created
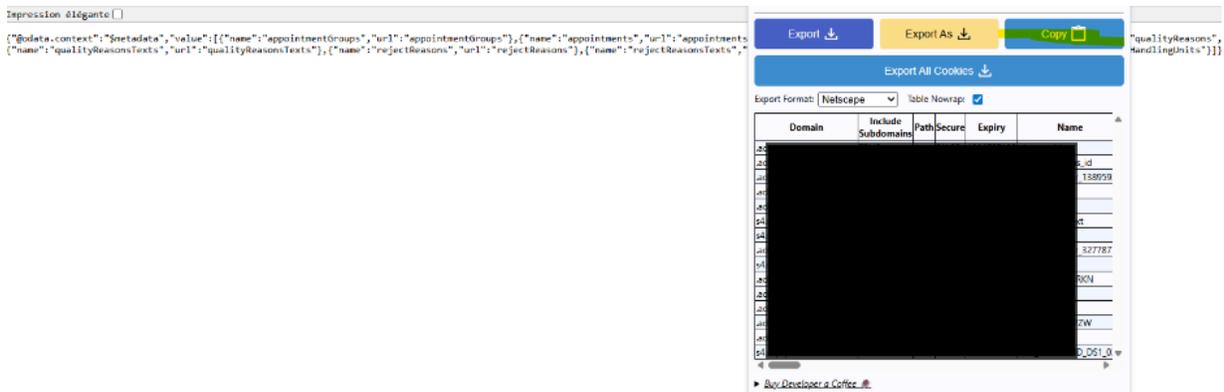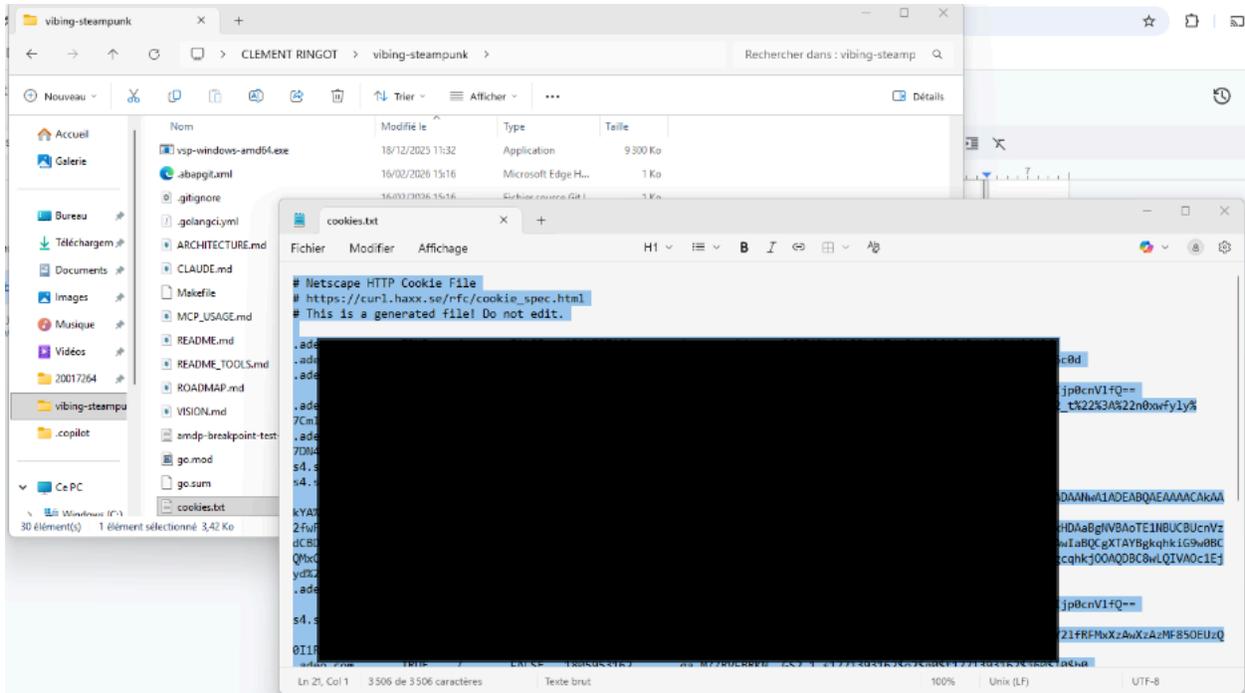
-   And save it

4. Configuration of MCPs

-   In Github Copilot CLI :
Open file { home_path }/.copilot/mcp-config.json

And add following MCP :

```json
{
  "mcpServers": {
    "vibing-steampunk": {
      "type": "stdio",
      "command": "{your_repo_path}\\vsp-windows-amd64.exe",
      "args": [],
      "env": {
        "SAP_URL": "{your_url_system}",
        "SAP_CLIENT": "{your_url_client}",
        "SAP_COOKIE_FILE": "{your_repo_path}\\cookies.txt"
      }
    },
    "abap-mcp-server": {
      "type": "http",
```

```
    "url": "https://mcp-abap.marianzeis.de/mcp"
  },
  "sap-docs": {
    "type": "http",
    "url": "https://mcp-sap-docs.marianzeis.de/mcp"
  }
 }
}
```

More info here : https://docs.github.com/en/copilot/how-tos/copilot-cli/use-copilot-cli

- In Github Copilot for Eclipse Add On

Go to the settings
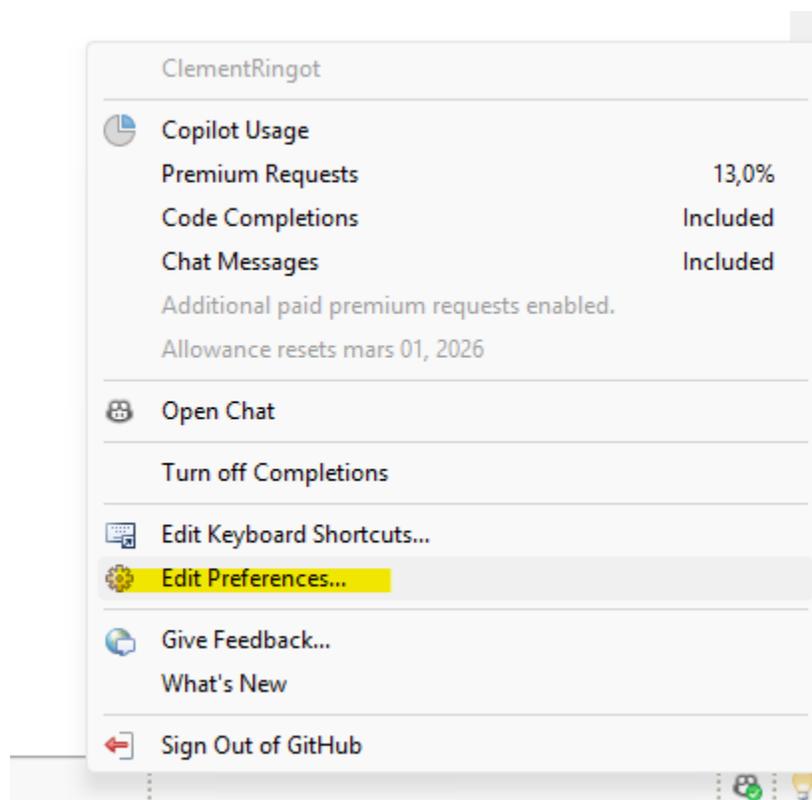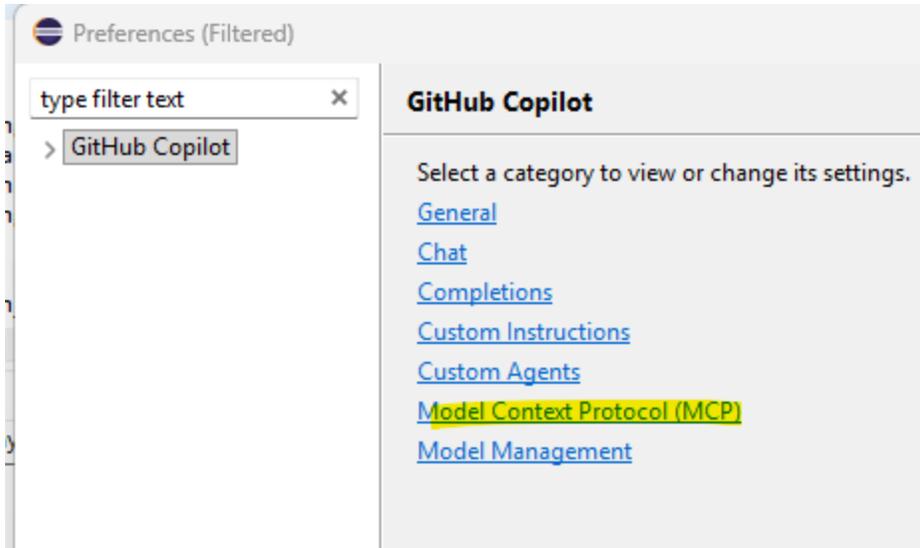
And add the list of MCP

```
{
  "servers": {
      "vibing-steampunk": {
    "type": "stdio",
    "command": "{your_repo_path}\\vsp-windows-amd64.exe",
    "env": {
      "SAP_URL": "{your_url_system}",
      "SAP_CLIENT": "{your_url_client}",
      "SAP_COOKIE_FILE": "{your_repo_path}\\cookies.txt"
    }
  },
"abap-mcp-server": {
    "type": "http",
    "url": "https://mcp-abap.marianzeis.de/mcp"
  },
  "sap-docs": {
    "type": "http",
    "url": "https://mcp-sap-docs.marianzeis.de/mcp"
  }
 }
}
```

- In Claude Code :
Open file { home_path }/.claude.json

And add following config :

```json
"mcpServers": {
   "vibing-steampunk": {
     "type": "stdio",
     "command": "{your_repo_path}\vsp-windows-amd64.exe",
     "env": {
       "SAP_URL": "{your_url_system}",
       "SAP_CLIENT": "{your_url_client}",
       "SAP_COOKIE_FILE": "{your_repo_path}\\cookies.txt"
     }
   },
   "abap-mcp-server": {
     "type": "http",
     "url": "https://mcp-abap.marianzeis.de/mcp"
   },
   "sap-docs": {
     "type": "http",
     "url": "https://mcp-sap-docs.marianzeis.de/mcp"
   }
},
```

Find more info here : https://code.claude.com/docs/en/mcp

- Bonus In Copilot Chat in VSCode

Open profiles
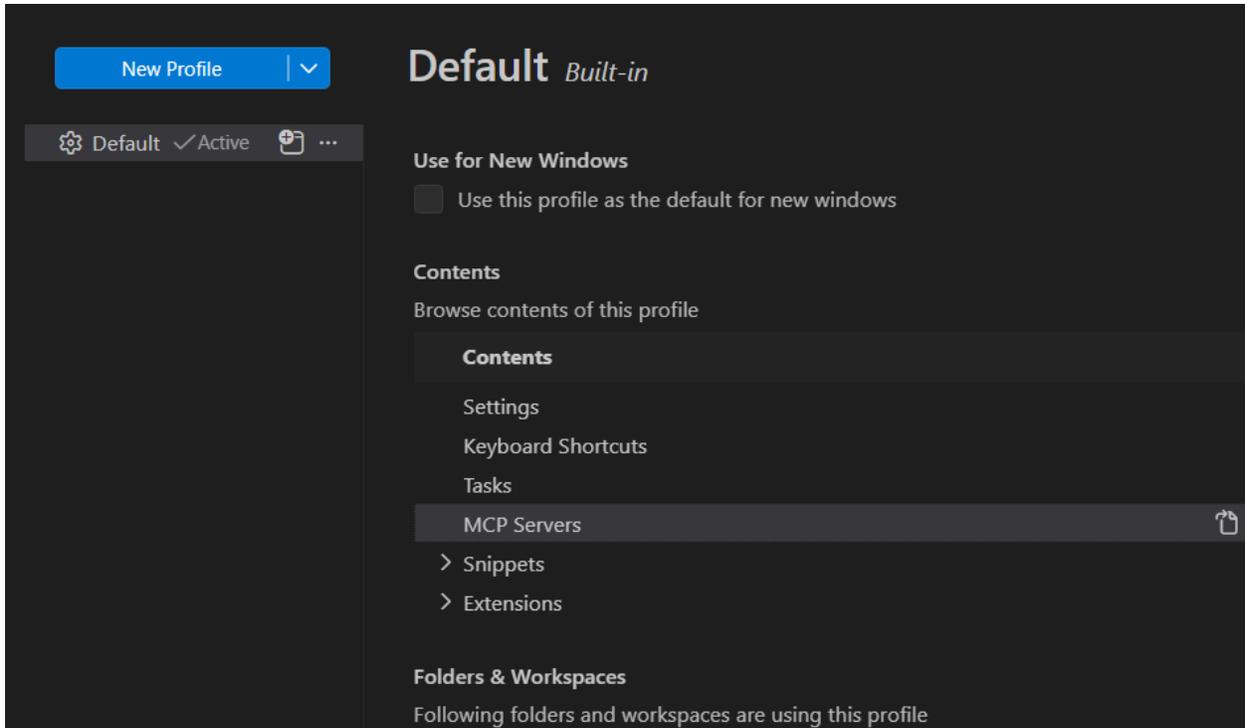
MCP servers

And add following configuration :

```json
{
  "servers": {
    "vibing-steampunk": {
      "type": "stdio",
      "command": "{your_repo_path}\\vsp-windows-amd64.exe",
      "args": [],
      "env": {
        "SAP_URL": "{your_system_url}",
        "SAP_CLIENT": "{your_client}",
        "SAP_COOKIE_FILE": "{your_repo_path}\\cookies.txt"
      }
    },
    "abap-mcp-server": {
      "type": "http",
      "url": "https://mcp-abap.marianzeis.de/mcp"
    },
    "sap-docs": {
      "type": "http",
      "url": "https://mcp-sap-docs.marianzeis.de/mcp"
```

```
        }
    }
}
```

Now you can find MCPs

References :
https://code.visualstudio.com/docs/copilot/customization/mcp-servers
https://docs.github.com/en/copilot/how-tos/provide-context/use-mcp/extend-copilot-chat-with-mcp
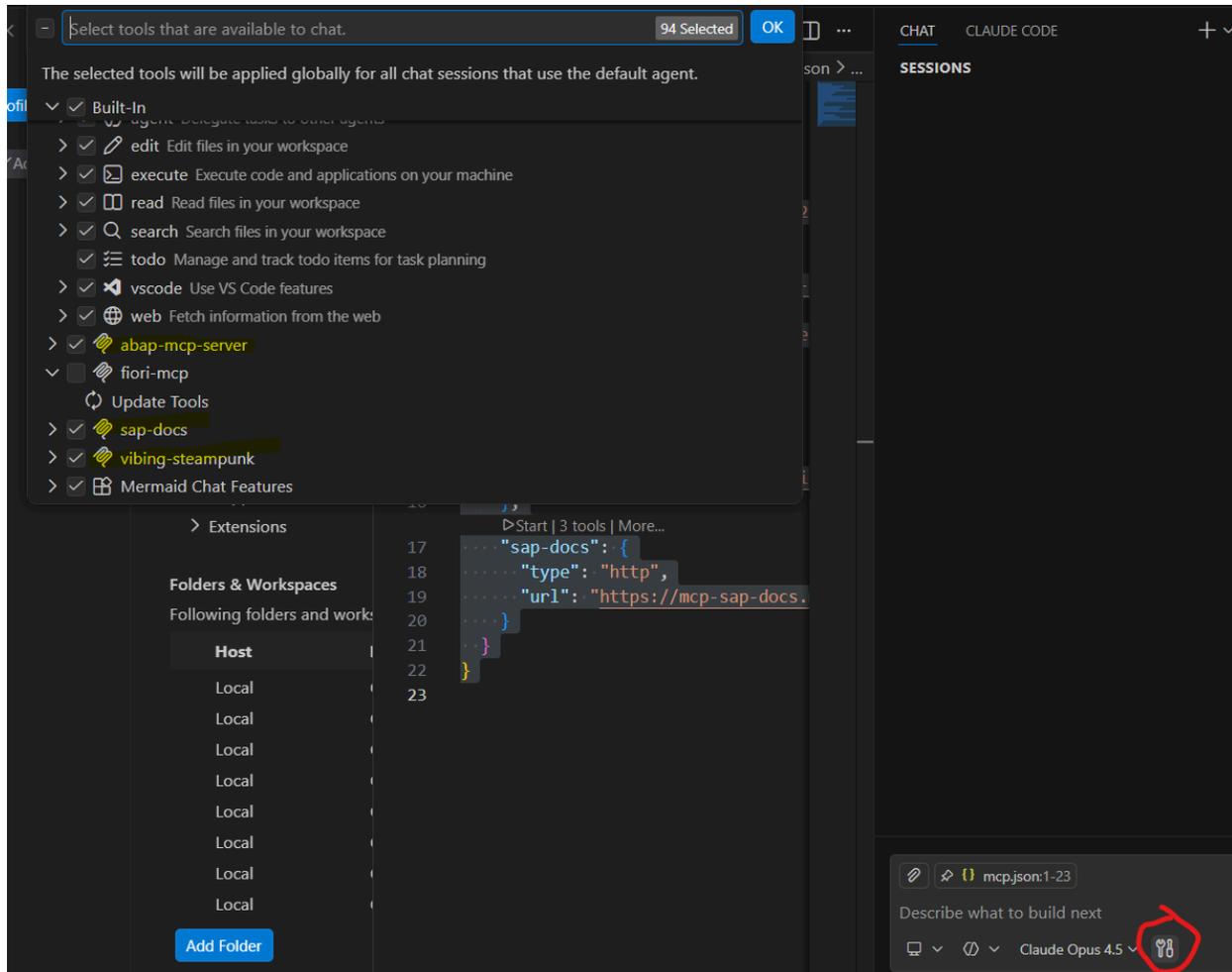
- For MCP configuration in BAS you can take a look here :
https://community.sap.com/t5/technology-blog-posts-by-members/don-t-wait-for-sap-unlocking-mcp-servers-in-bas-right-now/ba-p/14279283

5. Demo

- Github Copilot CLI

In the terminal, launch command *copilot*

You'll see your configured MCPs
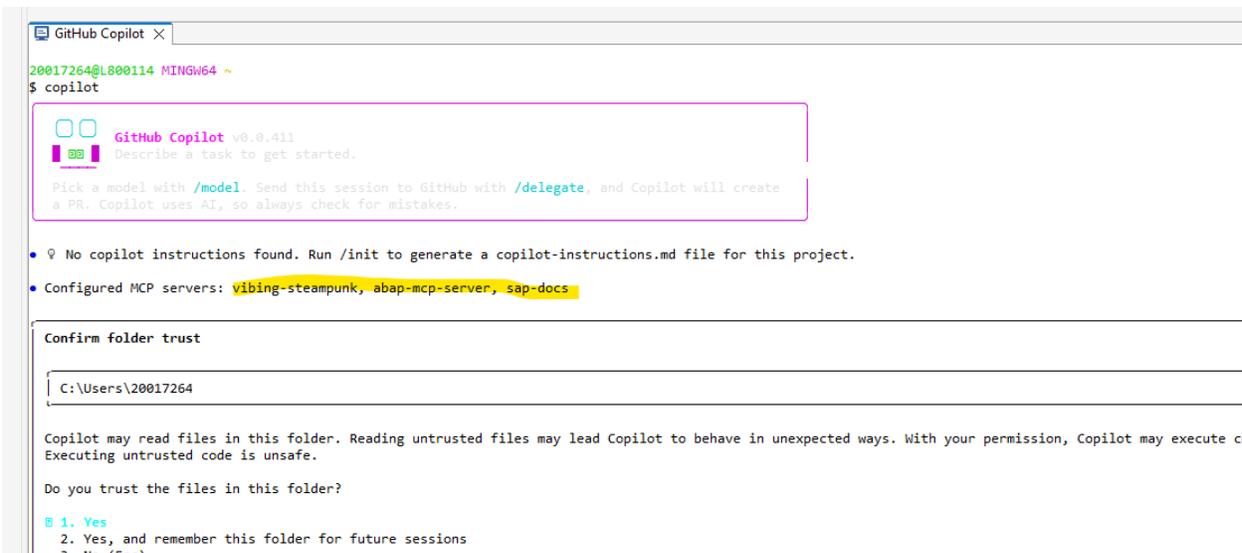
Prompt your question or instruction (explain/create or something you want to do)

- READ

```
▣ que fait ma cds ZI_REJECT_REASON ?

▣ The user is asking about what their CDS view ZI_REJECT_REASON does. Let me get the source code of this CDS view.

● GetSource

  GetSource

    {
      "object_type": "DDLS",
      "name": "ZI_REJECT_REASON"
    }

  Do you want to use this tool?

▣ 1. Yes
   2. Yes, and approve tool "GetSource" from server "vibing-steampunk" for the rest of the running session
   3. Yes, and approve all tools from server "vibing-steampunk" for the rest of the running session
   4. No, and tell Copilot what to do differently (Esc to stop)
```

MCP is reading source

```
                                                                        ▣ ▣ | ▣ ▣ ▣ | ▣ ▣
  ☐ Expliquer CDS ZI_REJECT_REASON ✕

● ♀ No copilot instructions found. Run /init to generate a copilot-instructions.md file for this project.

● Configured MCP servers: vibing-steampunk, abap-mcp-server, sap-docs

▣ que fait ma cds ZI_REJECT_REASON ?

▣ The user is asking what their CDS view ZI_REJECT_REASON does. Let me look it up.

● GetSource
  └ @AbapCatalog.viewEnhancementCategory: [#NONE]

● La vue CDS ZI_REJECT_REASON expose les motifs de rejet pour les rendez-vous (Appointment - Reject Reasons).

  Elle sélectionne depuis ZI_RejectReasons en faisant une jointure avec la table de transcodification zpi_transco (type BU_OA) pour ramener la clé de la Business Unit (key1).

  Elle expose :

  - businessUnitId — clé de la Business Unit (depuis la transco)
  - rejectReasonId — identifiant du motif de rejet
  - _RejectReasonTexts — association vers les libellés des motifs de rejet
```

- **CREATE**

```
                                                                        ▣ ▣ ▣ ▣ ▣
  ☐ ▣ Creating CDS view ✕
        _RejectReasonTexts — association vers les libellés des motifs de rejet

▣ create a ZTEST_CDS that select from I_PRODUCT and take only product field in package $TMP

▣ The user wants to create a CDS view ZTEST_CDS that selects from I_PRODUCT and takes only the Product field, in package $TMP.

● WriteSource:  Test CDS - Product

  WriteSource

    {
      "object_type": "DDLS",
      "name": "ZTEST_CDS",
      "package": "$TMP",
      "description": "Test CDS - Product",
      "source": "@AbapCatalog.viewEnhancementCategory: [#NONE]\n@AccessControl.authorizationCheck: #NOT_REQUIRED\n@EndUserText.label: 'Test CDS - Product'\ndefine view entity ZTEST_CDS as select
  from I_Product\n{\n  key Product\n}"
    }

  Do you want to use this tool?

▣ 1. Yes
   2. Yes, and approve tool "WriteSource" from server "vibing-steampunk" for the rest of the running session
   3. Yes, and approve all tools from server "vibing-steampunk" for the rest of the running session
   4. No, and tell Copilot what to do differently (Esc to stop)

   to navigate ›       to select ›      to cancel
```
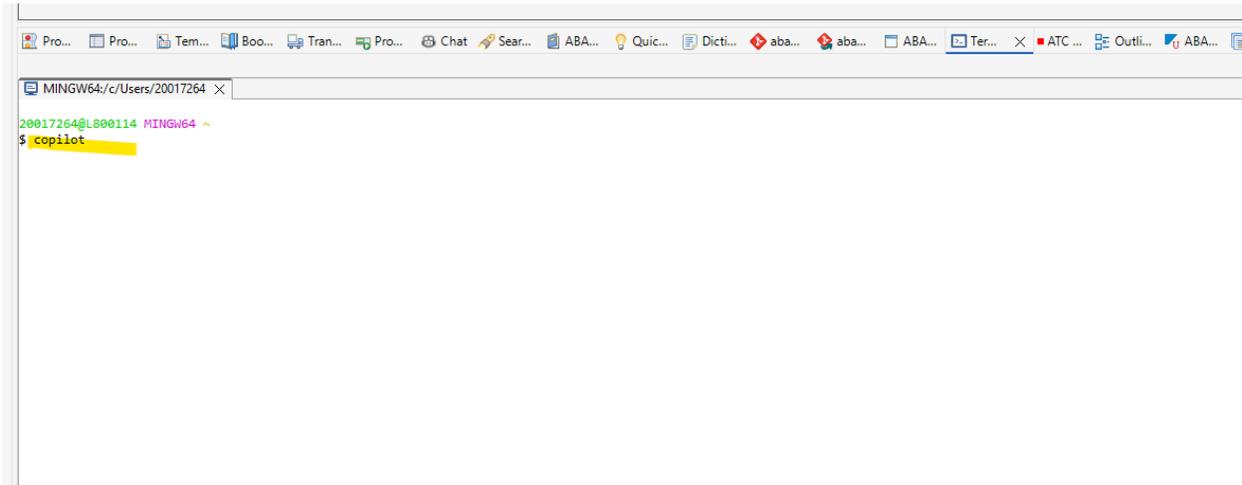
As the name was already taken, agent ask for a new one and create the CDS

The user wants to create a new CDS view named ZCRT_TEST_CDS_COP instead. Let me create this new object.

● WriteSource: Test CDS - Product
  └ {"success":true,"objectType":"DDLS","objectName":"ZCRT_TEST_CDS_COP","objectU...

● ZCRT_TEST_CDS_COP créée et activée avec succès dans $TMP. Le warning est sans impact (héritage du search help non propagé depuis I_Product).

                                                                                    claude-sonnet-4.6 (mediu

Then in ADT you can see the CDS :

[DS1] ZI_DOCK_APPOINTMENT   [DS1] ZI_FISCAL_INVENTORY_SCHEDULE   [DS1] ZC_DOCK_APPOINTMENT   [DS1] ZC_GROUP_APPOINTMENTS   [DS1] ZI_DOCK_APPOINTMENT   [DS1] ZCRT_TEST_CDS_COP ×
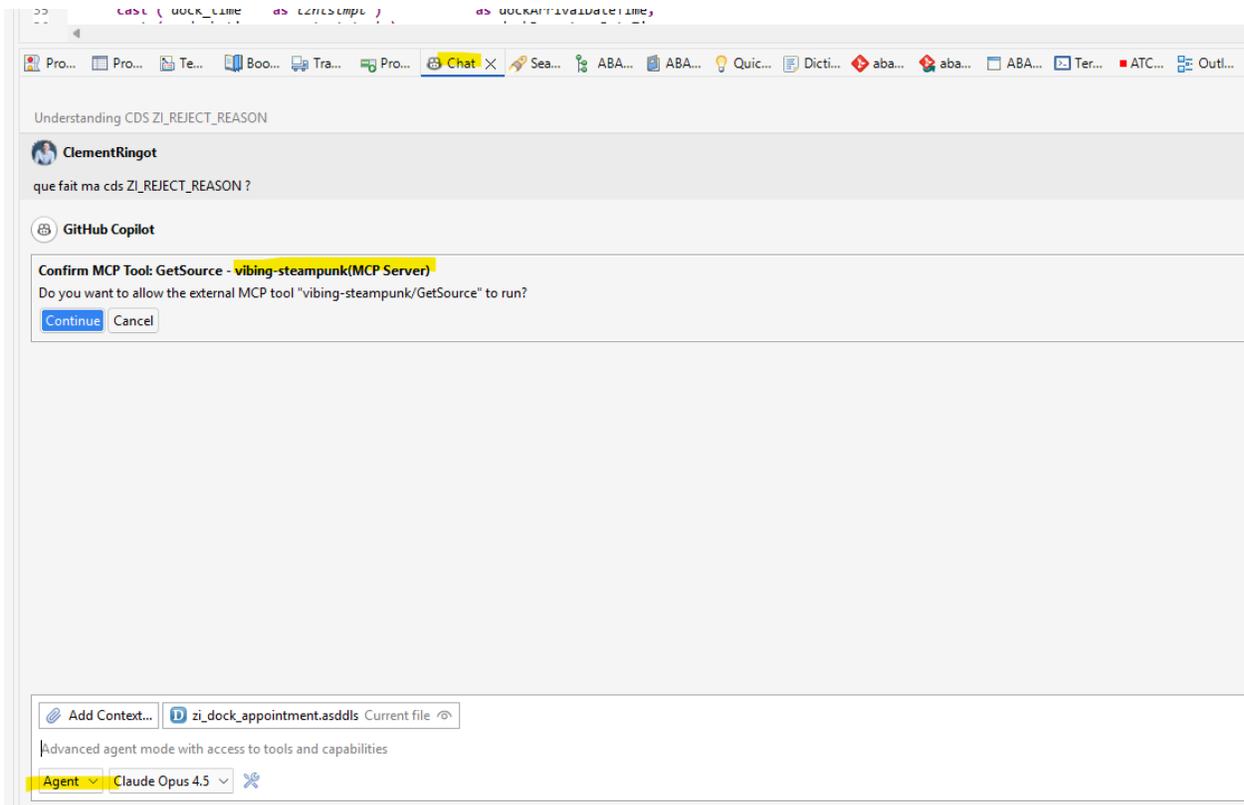
1 @AbapCatalog.viewEnhancementCategory: [#NONE]
2 @AccessControl.authorizationCheck: #NOT_REQUIRED
3 @EndUserText.label: 'Test CDS - Product'
4 define view entity ZCRT_TEST_CDS_COP as select from I_Product
5 {
6   key Product
7 }
8

ABAP Type Hierarchy ×
To display the ABAP Type Hierarchy, select an ABAP type (for example in Project Explorer or in an editor) and select 'Open ABAP Type Hierarchy'

Prob... Prop... Tem... Boo... Tran... Prog... Chat Search ABA... Quic... Dicti... aba... aba... ABA... Ter... × ATC ... Outli... ABA... ABA... Con... Eclip...

Expliquer CDS ZI_REJECT_REASON ×

Let me try to update it with the correct content.

● WriteSource
  └ {"success":false,"objectType":"DDLS","objectName":"ZTEST_CDS","objectUrl":"/s...

The system is still returning the same error, even though my source has 'ZTEST_CDS' as the entity name. This is strange. The error says "Name of entity ZTEST_FLIGHT_CDS and DDL source ZTEST_
  be identical".

It seems the existing source in the system still has 'ZTEST_FLIGHT_CDS'. Perhaps the system caches it or it's locked. Let me try using EditSource to replace the entire content, first locking

Actually, let me try a different approach - use EditSource to replace the old entity name with the content I need. But first I need to lock it.

× LockObject

The user wants to create a new CDS view named ZCRT_TEST_CDS_COP instead. Let me create this new object.

● WriteSource: Test CDS - Product
  └ {"success":true,"objectType":"DDLS","objectName":"ZCRT_TEST_CDS_COP","objectU...

● ZCRT_TEST_CDS_COP créée et activée avec succès dans $TMP. Le warning est sans impact (héritage du search help non propagé depuis I_Product).

                                                                                    claude-sonnet-4.6 (med

-    In Github Copilot for Eclipse

Put you in Agent Mode & Prompt

ClementRingot

que fait ma cds ZI_REJECT_REASON ?

GitHub Copilot

Confirm MCP Tool: GetSource - vibing-steampunk(MCP Server)
Do you want to allow the external MCP tool "vibing-steampunk/GetSource" to run?

[Continue] [Cancel]

Add Context... D zi_dock_appointment.asddls Current file

Advanced agent mode with access to tools and capabilities

Agent ∨   Claude Opus 4.5 ∨

ClementRingot

Que fait la cds ZI_REJECT_REASON ?

GitHub Copilot

✔ Ran MCP tool: GetSource - vibing-steampunk(MCP Server)

La CDS **ZI_REJECT_REASON** expose les motifs de rejet pour les rendez-vous (Appointments).

Ce qu'elle fait :

- Elle sélectionne depuis la vue `ZI_RejectReasons`
- Elle effectue une jointure interne avec la table `zpi_transco` pour la transcodification, en filtrant sur le type `'BU_OA'` et en liant via `BusinessUnitId`
- Elle expose :
  - `businessUnitId` : L'identifiant de l'unité commerciale (issu de la transcodification)
  - `rejectReasonId` : L'identifiant du motif de rejet
  - Une association vers `_RejectReasonTexts` pour les textes descriptifs des motifs

Usage typique : Cette vue est utilisée pour fournir une liste de motifs de rejet associés à une unité commerciale, probablement dans un contexte de gestion des rendez-vous d'entrepôt (dock appointments), comme indiqué par le label "Appointment - Reject Reasons".

Claude Opus 4.5 - 3x

- In Claude Code : Take a look here
https://abapeur.fr/en/vibe-coding-in-abap-whats-new/
Section ***Using MCPs with Claude Code***