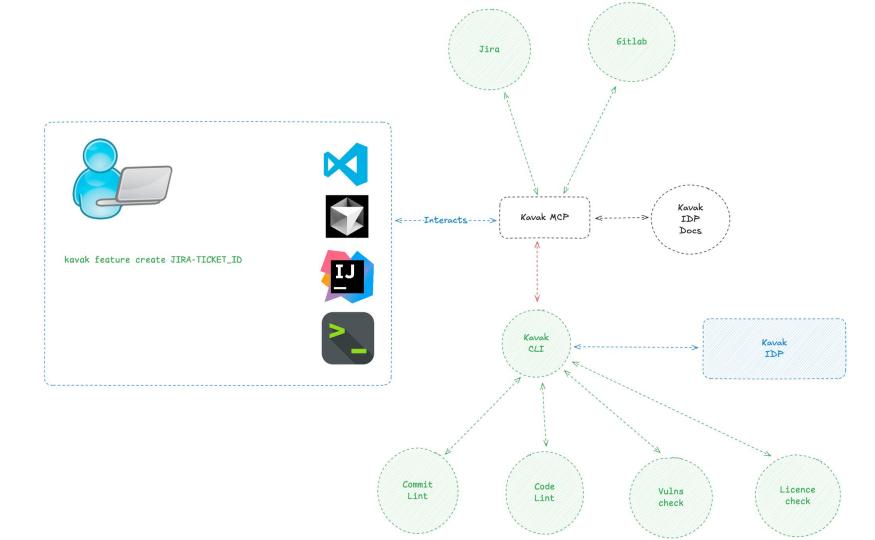
MCP Integration

SDLC

- Design a MCP tool to validate and create a quick security assessment and create a feature definition for MCP servers (similar to .cursor/<u>rules.md</u>)
- Create pre-commit integrations for SDLC inside Kavak
- Create pre-push integrations for SDLC inside Kavak
- Enable MCP functionality cross-organization.





I'd like to create a new feature based from JIRA-TICKET_ID Checks for Ticket Definition in Jira Validates Feature Definition from OWASP Perspective Create security assessment for the user and update the user story git checkout main git checkout -b feat/ticket_id kavak feature create JIRA-TicketID --definition json echo .rules/current_feature.md Software development pre-commit hooks kavak feature commit Life Cycle kavak feature push pre-push hooks

Idea general

Con base en la definición de un feature, hacer un self-assesment de OWASP para determinar lo siguiente:

· Vulnerabilidades más conocidas

· Criticidad del feature

import json import re

load_dotenv()

client = OpenAI()

- Consideraciones de PII o segregación de accesos a tener en cuenta
- Generar un Checklist de tareas para que se complemente al proceso de desarrollo

Empty markdown cell, double-click or press enter to edit.

from openai import OpenAI

from dotenv import load_dotenv

Python

```
{} feature_definition.json > {} feature
          "project_name": "Todo List",
          "feature": {
              "jira_issue_key": "TODO-123",
  4
              "name": "Multitenant todo list".
              "description": "A todo list that can be used by multiple tenants",
  6
              "type": "backend-api".
              "user stories": [
                  "As a user, I'd like to login using Google OAuth",
  9
                  "As a user, I can create/edit/delete/view a todo list",
 10
 11
                  "As a user, I can filter todos by tags and due date"
 12
 13
              "acceptance criteria": [
 14
                  "The todo list is created/edited/deleted/viewed successfully",
 15
                  "The todo list is filtered by tags and due date successfully",
                  "The todo list is created/edited/deleted/viewed successfully",
 16
 17
                  "The login is successful and the user is redirected to the todo list"
 18
              "non functional requirements": {
 19
 20
                  "security": [
                      "The todo list is protected by OAuth",
 21
 22
                      "The todo list is protected by RBAC",
                      "The todo list is protected by rate limiting",
 23
 24
                      "The todo list is protected by logging"
 25
 26
 27
 28
```

Python

feature_definition = json.loads(open("feature_definition.json", "r").read())

response feature_definition = client.responses.create(

[3] \ 2.9s

```
partial_response = re.sub("```json", "", response_feature_definition.output_text)
       partial_response = re.sub("``", "", partial_response)
       questions = json.loads(partial_response)
    ✓ 0.0s
       answers = []
       for question in questions:
           answer = input(f"Question: {question}\nAnswer: ")
           answers append (answer)
       print(answers)
                                                                                                                                                       Python
   ["We're running inside AWS and using Internal developer platform, all DBs are Isolated and Security groups are only available by their respective pods", 'Using TLS, all co
       question_answers = [f"{question}\n{answer}" for question, answer in zip(questions, answers)]
       print(question answers)
[26]
                                                                                                                                                       Python
   ["What measures are in place to ensure data isolation between tenants to prevent unauthorized access?\nWe're running inside AWS and using Internal developer platform, all
                                                                             + Markdown
```

Python

print(response_feature_modification.output_text)

[34]

"" '``json
[
{
 "user_story": "As a user, I'd like to login using Google OAuth",
 "security_considerations": [
 "Ensure OAuth tokens are securely stored and transmitted using TLS encryption.",

"Regularly review and audit OAuth integration and access logs to identify unauthorized attempts.",

"Implement session expiration and logout mechanisms to protect against token theft."

]
},
{

"user_story": "As a user, I can create/edit/delete/view a todo list",

"security_considerations": [

"Implement role-based access control (RBAC) to ensure only authorized users can perform create/edit/delete operations.",

"Validate input on all API endpoints to prevent SQL injection and XSS vulnerabilities.",

"Use tenant-specific isolation mechanisms to ensure that users cannot access each other's todo lists."

]
},

"Validate filter parameters to prevent injection attacks and ensure they conform to expected formats.",
"Monitor logging for filtering actions to detect any abnormal patterns that may indicate misuse.",
"Rate limit filtering actions to mitigate the risk of abuse and protect the backend service."

"user_story": "As a user, I can filter todos by tags and due date",

"security considerations": [