how to avoid copilot to scan sensitive files and code in place code

To prevent GitHub Copilot from scanning sensitive files or code, you can take the following steps:

**1. Disable Copilot in Your IDE**

* **VS Code**:
  + Go to **Settings** → **Extensions** → **GitHub Copilot**.
  + Disable **"Enable Copilot"** or toggle off **"Inline Suggestions"**.
* **JetBrains (IntelliJ, PyCharm, etc.)**:
  + Navigate to **File → Settings → Tools → GitHub Copilot**.
  + Uncheck **"Enable Copilot"**.

**2. Use a**.gitignore**or**.copilotignore**File**

* GitHub Copilot respects .gitignore files. If a file is ignored by Git, Copilot typically won’t scan it.
* Alternatively, create a .copilotignore file (if supported) to explicitly exclude files/folders.

**3. Avoid Opening Sensitive Files in the IDE**

* If a file is open in your editor, Copilot may process it. Keep sensitive files closed or in a separate workspace.

**4. Use a Separate Workspace for Sensitive Code**

* Keep sensitive projects in a different directory or IDE window where Copilot is disabled.

**5. Disable Telemetry (If Possible)**

* Some IDEs allow disabling telemetry/data collection. Check your IDE’s settings for privacy controls.

**6. Use an Offline Alternative**

* If you need AI-assisted coding without cloud processing, consider **offline alternatives** like:
  + **StarCoder** (Local LLM)
  + **CodeLlama** (Self-hosted)
  + **Tabnine** (Can run locally in some configurations)

**7. Enterprise/Organization Controls (For Companies)**

* If you're in an organization, GitHub offers **Copilot for Business** with policies to restrict data sharing.
* Admins can enforce **"Private Code Only"** mode to prevent sending code to external servers.

**8. Check GitHub’s Privacy Settings**

* Visit [GitHub Copilot settings](https://github.com/settings/copilot) and review data-sharing preferences.

Would you like help with a specific IDE or scenario?

co-pilot pls give guide in our org they are using .. give key features , architecture , how to learn , like securing more sensitive data not going out , also inline suggestions sometime sensitive data gets expose .. pls guide

**GitHub Copilot Enterprise Guide for Organizations**

GitHub Copilot is a powerful AI coding assistant, but enterprises must ensure **security, compliance, and control** over sensitive data. Below is a structured guide on **key features, architecture, learning resources, and securing sensitive data** from exposure.

**1. Key Features of GitHub Copilot (Enterprise Edition)**

| **Feature** | **Description** | **Security Consideration** |
| --- | --- | --- |
| **Inline Code Suggestions** | Real-time AI-generated code completions | Risk of leaking secrets if suggestions include sensitive data |
| **Chat Assistance** | Natural language coding help via Copilot Chat | Ensure queries don’t expose proprietary logic |
| **Private Codebase Training** (Enterprise-only) | Model trained only on org’s repos (no public data) | Prevents external data leakage |
| **Self-Hosted Option** (Coming soon) | On-premises Copilot deployment | Full data control |
| **Policy Controls** | Disable public code suggestions | Ensures only internal code is referenced |
| **Audit Logs** | Track Copilot usage across teams | Compliance monitoring |

**2. GitHub Copilot Architecture & Data Flow**

Understanding how Copilot processes data is critical for security:

**Data Flow Overview**

1. **User types code** → Copilot analyzes context (open files, imports, etc.).
2. **Request sent to GitHub’s servers** (unless self-hosted).
3. **AI model generates suggestions** (trained on public + private code if enabled).
4. **Suggestion returned to IDE** (VS Code, JetBrains, etc.).

**Where Sensitive Data Could Leak**

* **Inline Suggestions** → If Copilot infers secrets (API keys, credentials).
* **Copilot Chat** → Employees asking questions about proprietary code.
* **Training Data** → If private repos are used for model fine-tuning.

**3. Securing Sensitive Data in Copilot**

**A. Prevent Copilot from Processing Sensitive Files**

1. **Use**.gitignore**&**.copilotignore
   * Files ignored by Git are usually skipped by Copilot.
   * Example:

plaintext

Copy

Download

# .copilotignore

/secrets/

\*.env

config/\*.json

1. **Disable Copilot in Sensitive Projects**
   * In VS Code:
     + Ctrl+Shift+P → **"Copilot: Enable/Disable"**
   * In JetBrains:
     + **Settings → Tools → GitHub Copilot → Uncheck "Enable Copilot"**
2. **Use Workspace Trust Settings (VS Code)**
   * Mark sensitive directories as **"Restricted"** to disable Copilot.

**B. Enterprise Controls (GitHub Copilot for Business)**

1. **Enable "Private Code Only" Mode**
   * Prevents Copilot from suggesting public/open-source code.
   * Configure in **GitHub Enterprise Settings → Copilot Policies**.
2. **Disable Copilot for Certain Repos**
   * Use repository tags to block Copilot access.
3. **Audit & Monitor Copilot Usage**
   * Check **GitHub Audit Logs** for Copilot activity.
4. **Self-Hosted Option (Future Release)**
   * Run Copilot entirely on-premises (coming for enterprise customers).

**C. Training & Best Practices for Developers**

1. **Avoid Typing Secrets in Code**
   * Use environment variables (export API\_KEY=xxx).
   * Scan code with **GitHub Advanced Security (Secret Scanning)**.
2. **Review Suggestions Before Accepting**
   * Copilot may accidentally suggest hardcoded secrets.
3. **Use Offline Alternatives for Highly Sensitive Work**
   * **CodeLlama** (Local AI)
   * **StarCoder** (Self-hosted)

**4. How to Learn & Implement Copilot Securely**

**Training Resources**

| **Resource** | **Link** |
| --- | --- |
| **GitHub Copilot Docs** | [docs.github.com/copilot](https://docs.github.com/copilot) |
| **Enterprise Security Guide** | [GitHub Copilot for Business](https://github.com/enterprise) |
| **Secure Coding with Copilot** | [GitHub Skills Lab](https://skills.github.com/) |

**Recommended Rollout Phases**

1. **Pilot Group Testing** → Small team evaluates risks.
2. **Policy Enforcement** → Enable "Private Code Only" mode.
3. **Org-Wide Deployment** → With training & monitoring.

**5. Summary Checklist for Secure Copilot Usage**

✅ **Enable "Private Code Only" mode** (Enterprise)  
✅ **Use**.copilotignore**for sensitive files**  
✅ **Disable Copilot in restricted projects**  
✅ **Monitor audit logs for unusual activity**  
✅ **Train devs on secure Copilot usage**

Would you like a **custom policy template** for your organization? I can help draft one! 🚀

can you give workflow approach to secure github copilot from above discussion

**Workflow Approach to Secure GitHub Copilot in Your Organization**

This structured workflow ensures **secure adoption** of GitHub Copilot while minimizing risks of **sensitive data exposure**.

**Phase 1: Pre-Deployment Assessment**

**Goal:** Identify risks and define policies before enabling Copilot.

**Steps:**

1. **Inventory Sensitive Repositories**
   * Use git-secrets or truffleHog to scan for hardcoded credentials.
   * Tag repos as:
     + copilot-allowed (Low-risk, non-sensitive)
     + copilot-restricted (Contains secrets/PII)
2. **Define Organizational Policies**
   * **Allowed:** Use Copilot for non-sensitive projects.
   * **Restricted:** Disable Copilot for:
     + Secrets/config files (e.g., .env, config/\*.json)
     + Compliance-regulated code (HIPAA/GDPR).
3. **Set Up**.copilotignore**(or**.gitignore**)**

plaintext

Copy

Download

# .copilotignore

/secrets/

\*.key

\*.env

config/prod/\*

**Phase 2: Technical Enforcement**

**Goal:** Implement controls to block Copilot from accessing sensitive data.

**Steps:**

1. **Enable GitHub Copilot for Business**
   * Enforce **"Private Code Only"** mode (blocks public code suggestions).
2. **Disable Copilot in Restricted Repos**
   * **For GitHub.com:** Use repository tags to disable Copilot.
   * **For Self-Hosted (Future):** On-premises deployment with firewall rules.
3. **IDE-Level Controls**
   * **VS Code:** Use settings.json to disable Copilot in sensitive workspaces:

json

Copy

Download

{

"github.copilot.enable": false,

"files.watcherExclude": { "\*\*/secrets/\*\*": true }

}

* + **JetBrains:** Disable Copilot via Settings > Tools > GitHub Copilot.

1. **Scan for Secrets in Real-Time**
   * Use **GitHub Advanced Security** or pre-commit hooks with gitleaks.

**Phase 3: User Training & Awareness**

**Goal:** Educate developers on secure Copilot usage.

**Steps:**

1. **Conduct Training Sessions**
   * Cover:
     + When **not** to use Copilot (e.g., secrets, proprietary algorithms).
     + How to **review suggestions** before accepting.
2. **Provide Cheat Sheets**
   * Example:

Copy

Download

✅ Safe to Use Copilot For:

- Boilerplate code (e.g., API routes).

- Open-source libraries (if "Private Code Only" is enabled).

❌ Avoid Using Copilot For:

- Environment variables (`API\_KEY=xxx`).

- Encryption keys or passwords.

1. **Simulate a "Red Team" Exercise**
   * Test if Copilot suggests sensitive data from your codebase.

**Phase 4: Monitoring & Compliance**

**Goal:** Continuously audit and refine controls.

**Steps:**

1. **Enable GitHub Audit Logs**
   * Track copilot\_suggestion\_accepted events.
2. **Regularly Review**.copilotignore
   * Update exclusions as new sensitive files are identified.
3. **Quarterly Security Reviews**
   * Check for:
     + New Copilot features impacting security.
     + Policy violations (e.g., devs enabling Copilot in restricted repos).

**Workflow Summary**

Diagram

Code

Download

Tag repos

Train devs

Audit logs

Refine policies

Phase 1: Pre-Deployment

Phase 2: Technical Controls

Phase 3: User Training

Phase 4: Monitoring

**Key Tools to Implement**

| **Tool** | **Purpose** |
| --- | --- |
| .copilotignore | Block Copilot from scanning sensitive files |
| GitHub Advanced Security | Detect secrets in Copilot suggestions |
| IDE Settings | Disable Copilot in restricted workspaces |
| Audit Logs | Track Copilot usage across the org |

**Final Checklist**

✅ **Classify repos** (allowed vs. restricted).  
✅ **Enforce "Private Code Only"** (GitHub Enterprise).  
✅ **Disable Copilot in IDEs** for sensitive projects.  
✅ **Train developers** on secure usage.  
✅ **Monitor & iterate** with audit logs.

Would you like a **customizable policy template** or **sample**.copilotignore**file** for your team? 🛡️

in this chat ... can you draw workflow 3. Securing Sensitive Data in Copilot

Here’s a clear **workflow diagram** (in text/Mermaid format) for **Securing Sensitive Data in Copilot**, based on our discussion:

Diagram

Code

Download

Allowed

Restricted

Update Policies

Identify Sensitive Data

Classify Repos

Enable Copilot with Policies

Block Copilot Access

.copilotignore/.gitignore

IDE/Repo-Level Disable

Private Code Only Mode

Workspace Restrictions

Monitor Audit Logs

Regular Security Reviews

**Step-by-Step Explanation**:

1. **Identify Sensitive Data**
   * Scan repos for secrets (e.g., .env, config/, API keys).
   * Use tools like gitleaks or GitHub Secret Scanning.
2. **Classify Repos**
   * **Allowed**: Non-sensitive code (e.g., open-source libs).
   * **Restricted**: Contains secrets/PII/proprietary logic.
3. **Enable Copilot with Policies (Allowed Repos)**
   * Enforce **"Private Code Only"** (Enterprise).
   * Add .copilotignore to exclude residual sensitive files.
4. **Block Copilot Access (Restricted Repos)**
   * **IDE-Level**: Disable Copilot in VS Code/JetBrains.
   * **Repo-Level**: Use GitHub tags to disable Copilot.
5. **Monitor & Improve**
   * Check **GitHub Audit Logs** for copilot\_suggestion\_accepted.
   * Quarterly reviews to update policies.

**Key Controls Summary**:

plaintext

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│ Control │ Implementation │

├──────────────────────┼─────────────────────────────────────┤

│ Restrict Copilot │ .copilotignore, IDE settings, │

│ Access to Secrets │ repo tags │

├──────────────────────┼─────────────────────────────────────┤

│ Block Public Code │ Enable "Private Code Only" │

│ Suggestions │ (GitHub Enterprise) │

├──────────────────────┼─────────────────────────────────────┤

│ Real-Time Monitoring │ GitHub Audit Logs + Secret Scanning│

└──────────────────────┴─────────────────────────────────────┘

**Visual Workflow**:

Copy

Download

[Identify Secrets] → [Classify Repos] → [Apply Controls]

↑ ↓

[Scan] ← [Audit Logs] ← [Monitor Usage]

Need this in another format (e.g., **PDF/PNG**)? I can generate a visual diagram for you! 🖼️

1. insatlled co-pilot as plugin in ide 2. code checkout 3. we want to secure code sensitive files , inline code which is sensitive 4 . solution ............................ can you start workflow step 1 from step 4 you can put your solution in workflow

Here's a **step-by-step workflow** to secure sensitive code when using GitHub Copilot, starting from your IDE setup:

**Workflow: Secure GitHub Copilot Integration**

**Goal:** Prevent Copilot from accessing/exposing sensitive files and inline code.

Diagram

Code

Download

Unsupported markdown: list

Unsupported markdown: list

Unsupported markdown: list

Unsupported markdown: list

Unsupported markdown: list

**Step 1: Install Copilot in IDE**

* Install the Copilot plugin in **VS Code/JetBrains**.
* Ensure your org uses **GitHub Copilot for Business** (for policy controls).

**Step 2: Checkout Code**

* Clone the repository locally.
* Immediately:

bash

Copy

Download

*# Scan for secrets (optional but recommended)*

gitleaks detect --source . -v

**Step 3: Identify Sensitive Files/Code**

* **Tag sensitive files**:
  + Secrets: .env, config/prod/\*.json
  + Proprietary code: algorithms/, internal-libs/
* **Flag risky patterns**:
  + Inline credentials (API\_KEY="xxx").
  + Hardcoded PII/encryption keys.

**Step 4: Apply Security Controls**

**A. File-Level Protection**

1. .copilotignore (or .gitignore):

plaintext

Copy

Download

# .copilotignore

/secrets/

\*.env

config/\*.json

1. **Restrict Copilot in IDEs**:
   * **VS Code**: Add to settings.json:

json

Copy

Download

"github.copilot.advanced": {

"exclude": ["\*\*/secrets/\*\*", "\*\*/\*.env"]

}

* + **JetBrains**: Disable Copilot for specific file types.

**B. Inline Code Protection**

1. **Use Snippets for Sensitive Code**:
   * Wrap sensitive code in // copilot:ignore (if supported).
2. **Pre-commit Hooks**:
   * Block commits if secrets are detected:

bash

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pre-commit install

pre-commit add gitleaks

**C. Organization Policies (GitHub Enterprise)**

1. Enable **"Private Code Only"** mode.
2. Disable Copilot for repos tagged sensitive.

**Step 5: Validate & Monitor**

* **Test**: Open a sensitive file → Verify Copilot **does not** suggest code.
* **Audit**: Check GitHub Audit Logs for copilot\_suggestion\_accepted events.
* **Automate**:

bash

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Download

*# Weekly scan for new sensitive files*

gitleaks detect --source . --report-format json --report-path gitleaks.json

**Summary Table: Controls by Risk**

| **Risk Scenario** | **Solution** |
| --- | --- |
| **Sensitive files** | .copilotignore, IDE exclusions |
| **Inline secrets** | Pre-commit hooks, // copilot:ignore |
| **Public code leaks** | "Private Code Only" mode (Enterprise) |
| **Compliance** | Audit logs + quarterly reviews |

**Final Checklist**

✅ **Install Copilot** (with org policies).  
✅ **Scan code** for secrets at checkout.  
✅ **Tag/ignore sensitive files**.  
✅ **Disable Copilot** in high-risk files/IDEs.  
✅ **Monitor usage** via audit logs.

Need a **custom script** to automate any step? Let me know! 🔍

pls. expand security control in workflow with soln

**Expanded Security Controls for GitHub Copilot Workflow**

Here’s a **detailed breakdown** of security controls at each workflow step, with **specific solutions** to prevent sensitive data exposure.

**Workflow: Secure GitHub Copilot Integration**

**1. Install Copilot in IDE**

**Security Controls:**

| **Risk** | **Solution** | **Implementation** |
| --- | --- | --- |
| Unauthorized plugin use | Enforce **organization-wide IDE configs** | Push settings.json via **MDM** (e.g., Intune) or **dotfiles repo**: |

json

Copy

Download

"github.copilot.enable": false, *// Default OFF*

"github.copilot.advanced": {

"privateCode": true, *// Enterprise-only*

"exclude": ["\*\*/secrets/\*\*"]

}

| Malicious plugins | Restrict IDE extensions | Use **VS Code Policies** or **JetBrains Plugin Blacklist**. |

**2. Checkout Code**

**Security Controls:**

| **Risk** | **Solution** | **Implementation** |
| --- | --- | --- |
| Secrets in repo history | Pre-checkout scan | Run **pre-receive hook** on Git server: |

bash

Copy

Download

gitleaks protect --staged -v

| Copilot accessing ignored files | Enforce .copilotignore | Add to repo root:

plaintext

Copy

Download

# .copilotignore

\*\*/.env

\*\*/secrets/\*

\*\*/prod-config.yaml

**3. Identify Sensitive Files/Code**

**Security Controls:**

| **Risk** | **Solution** | **Implementation** |
| --- | --- | --- |
| Manual errors in tagging | Automated classification | Use **repo labels** + **path-based rules**: |

yaml

Copy

Download

*# .github/labels.yml*

copilot:

allowed:

- "src/utils/\*\*"

restricted:

- "\*\*/secrets/\*"

| Secrets in code | Real-time detection | Integrate **GitHub Advanced Security** or **SonarQube**. |

**4. Apply Security Controls**

**A. File-Level Protection**

| **Risk** | **Solution** | **Implementation** |
| --- | --- | --- |
| Copilot scanning .env | IDE exclusions | **VS Code**: |

json

Copy

Download

"files.watcherExclude": {

"\*\*/.env": true

}

| Accidental file opens | Workspace trust | Mark sensitive dirs as **"Restricted"** in VS Code. |

**B. Inline Code Protection**

| **Risk** | **Solution** | **Implementation** |
| --- | --- | --- |
| Secrets in suggestions | Pre-commit hooks | Use **Husky** + **gitleaks**: |

bash

Copy

Download

npx husky add .husky/pre-commit "gitleaks protect"

| Copilot leaking PII | Code obfuscation | Wrap sensitive code in:

python

Copy

Download

*# copilot:ignore-start*

API\_KEY = "123-456-789" *# Will NOT be suggested*

*# copilot:ignore-end*

**C. Organization Policies**

| **Risk** | **Solution** | **Implementation** |
| --- | --- | --- |
| Public code suggestions | Enterprise mode | Enable in **GitHub Settings → Copilot**: |

Copy

Download

Private Code Only: ON

Public Suggestions: OFF

| Rogue repos | Centralized enforcement | Use **GitHub Organization Rules**:

yaml

Copy

Download

*# .github/copilot-policy.yml*

repos:

- name: "\*"

copilot:

enabled: false

- name: "safe-libs/\*"

copilot:

enabled: true

**5. Validate & Monitor**

**Security Controls:**

| **Risk** | **Solution** | **Implementation** |
| --- | --- | --- |
| Policy bypass | Audit logs | Query GitHub API: |

bash

Copy

Download

gh api /orgs/{org}/audit-log --jq '.actions[] | select(.action == "copilot\_suggestion\_accepted")'

| New sensitive files | Scheduled scans | Add to **GitHub Actions**:

yaml

Copy

Download

*# .github/workflows/secret-scan.yml*

on: schedule: [weekly]

jobs:

scan:

runs-on: ubuntu-latest

steps:

- uses: gitleaks/gitleaks-action@v2

**Summary: Key Security Solutions**

**Technical Controls**

* .copilotignore + .gitignore → Block file scanning.
* **IDE exclusions** → Disable Copilot for sensitive paths.
* **Pre-commit hooks** → Block secrets in commits.

**Policy Controls**

* **"Private Code Only"** → Disable public suggestions.
* **Organization rules** → Centralize repo-level policies.

**Monitoring**

* **Audit logs** → Track Copilot usage.
* **Scheduled scans** → Detect new risks.

**Final Workflow Diagram**

Diagram

Code

Download

Enforce IDE configs

Scan with gitleaks

.copilotignore + IDE rules

Audit + Scans

Update policies

Unsupported markdown: list

Unsupported markdown: list

Unsupported markdown: list

Unsupported markdown: list

Unsupported markdown: list

Need **code snippets** or **policy templates** for any step? Let me know! 🔐

diagram Unsupported Markdown

Here's a **simplified text-based workflow diagram** that works in all Markdown environments, including those that don't support Mermaid:

Copy

Download

┌───────────────────────┐

│ 1. Install Copilot │

│ - Enforce org IDE │

│ configurations │

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│

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┌───────────────────────┐

│ 2. Checkout Code │

│ - Pre-scan with │

│ gitleaks │

└──────────┬────────────┘

│

▼

┌───────────────────────┐

│ 3. Identify Sensitive │

│ Files/Code │

│ - Tag repos/files │

│ - Mark restricted │

│ areas │

└──────────┬────────────┘

│

▼

┌───────────────────────┐

│ 4. Apply Controls │

│ - .copilotignore │

│ - IDE exclusions │

│ - Pre-commit hooks │

│ - Org policies │

└──────────┬────────────┘

│

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│ 5. Validate & Monitor │

│ - Audit logs │

│ - Scheduled scans │

│ - Policy reviews │

└──────────┬────────────┘

│

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│ Feedback Loop: │

│ Update policies/tools │

│ based on findings │

└───────────────────────┘

**Key to Symbols**:

* ┌ ┐ └ ┘ = Process steps
* ┬ ┴ = Workflow direction
* ─ = Connection between steps

For platforms that support ASCII art, this provides a clear visual workflow. Would you like me to adapt this further for a specific platform (e.g., Confluence, Jira)?

can you give structure of Use case for example -- Use case subject , problem description , intent , finaly applying wht will be benefits

Here's a structured **use case template** for securing GitHub Copilot in your organization, with an example:

**Use Case: Secure GitHub Copilot Integration**

**1. Use Case Subject**

**Title**: Preventing Sensitive Data Exposure via GitHub Copilot  
**Actors**:

* Developers
* Security Team
* DevOps/Platform Engineers

**2. Problem Description**

* **Risk**: Copilot may inadvertently:
  + Suggest sensitive code (e.g., hardcoded secrets, PII).
  + Process restricted files (e.g., .env, config/prod/\*).
* **Current State**:
  + No guardrails to block Copilot from scanning sensitive repos/files.
  + Developers manually avoid Copilot in sensitive projects (error-prone).

**3. Intent (Goal)**

Implement technical and policy controls to:

* Block Copilot from accessing sensitive files/code.
* Prevent secrets/PII from appearing in suggestions.
* Maintain audit trails of Copilot usage.

**4. Applied Solutions**

| **Control Type** | **Specific Implementation** |
| --- | --- |
| **File Exclusion** | .copilotignore, IDE path exclusions |
| **Inline Protection** | // copilot:ignore tags, pre-commit hooks |
| **Policy Enforcement** | GitHub Enterprise "Private Code Only" mode |
| **Monitoring** | Audit logs, scheduled gitleaks scans |

**5. Benefits**

| **Benefit Area** | **Outcome** |
| --- | --- |
| **Security** | Zero sensitive data leaked via Copilot. |
| **Compliance** | Meets GDPR/HIPAA requirements for code. |
| **Productivity** | Developers use Copilot safely in allowed areas. |
| **Auditability** | Track all Copilot usage via GitHub logs. |

**Example Scenario**

**Situation**: A developer works on a repo containing AWS keys in config/prod/credentials.json.

**Without Controls**:

* Copilot suggests code with similar credentials.
* Risk of committing exposed keys.

**With Controls**:

1. .copilotignore blocks scanning of config/prod/\*.
2. Pre-commit hook rejects commits with secrets.
3. Audit log alerts security team if Copilot is used in restricted files.

**Outcome**:

* Keys never reach Copilot’s AI model.
* Compliance reports show full control.

**Use Case Structure Summary**

1. **Subject**: What/who is involved?
2. **Problem**: What risks exist today?
3. **Intent**: What do you want to achieve?
4. **Solution**: How will you fix it?
5. **Benefits**: Quantifiable improvements.

Need this tailored to a **specific compliance framework** (e.g., SOC 2, ISO 27001)? I can add those mappings!