

# AI Logging, Monitoring and Incident Readiness

## Overview

Modern AI-powered applications introduce new security challenges due to their heavy reliance on APIs, automation, and large volumes of user-generated compiler and inference requests. Traditional infrastructure monitoring alone is insufficient; **application-level logging and security visibility are critical.**

This project demonstrates how to design and implement **logging, monitoring, and incident readiness for an AI-powered API** using Splunk as a SIEM. A FastAPI-based AI application was deployed on an Ubuntu server, configured to generate security-relevant logs, and integrated with Splunk using the Splunk Universal Forwarder.

The goal of this project is to simulate how AI application telemetry can be operationalized in a **SOC environment** for detection, investigation, and response readiness.

This project demonstrates how to implement centralized logging, monitoring, and basic incident readiness for an AI-powered API using Splunk. The goal is to simulate how AI application logs can be operationalized in a SOC environment for visibility, detection, and investigation.

A FastAPI-based AI application was deployed on Ubuntu, configured to generate structured security-relevant logs, which were forwarded to Splunk Enterprise using the Splunk Universal Forwarder.

## Objectives

1. Generate structured application security logs from an AI API
2. Forward logs securely to Splunk
3. Perform field extraction for security analysis
4. Build dashboards for monitoring AI application behavior
5. Simulate detection logic for abnormal or suspicious activity
6. Demonstrate incident readiness workflows

## Environment Setup

- OS: Ubuntu 20.04
- AI Framework: FastAPI (Uvicorn ASGI server)
- Logging: Python logging module
- SIEM: Splunk Enterprise (Free)
- Log Forwarding: Splunk Universal Forwarder

## AI Application Deployment and Validation

The FastAPI application was deployed on Ubuntu and exposed on port 8000. Uvicorn was used as the ASGI server to handle incoming API requests.

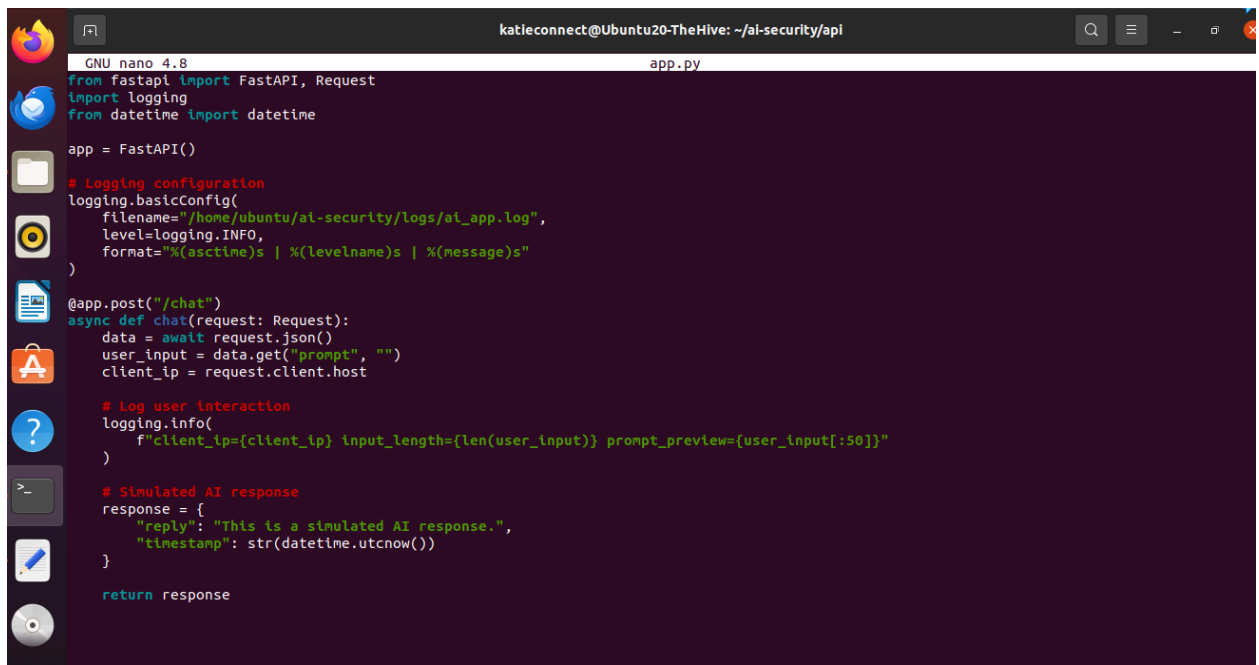
The API was validated using:

- FastAPI interactive documentation
- Direct `curl` requests to generate traffic and logs

```
katieconnect@Ubuntu20-TheHive:~$ python3 --version
Python 3.8.10
katieconnect@Ubuntu20-TheHive:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
udev            1.9G   0    1.9G   0% /dev
tmpfs           391M  1.4M   390M   1% /run
/dev/sda5       39G   20G   17G   54% /
tmpfs           2.0G   0    2.0G   0% /dev/shm
tmpfs           5.0M  4.0K   5.0M   1% /run/lock
tmpfs           2.0G   0    2.0G   0% /sys/fs/cgroup
/dev/loop0      128K  128K   0 100% /snap/bare/5
/dev/loop2      64M   64M   0 100% /snap/core20/2682
/dev/loop3      92M   92M   0 100% /snap/gtk-common-themes/1535
/dev/loop4      46M   46M   0 100% /snap/snap-store/638
/dev/loop5      347M  347M   0 100% /snap/gnome-3-38-2004/119
/dev/loop6      350M  350M   0 100% /snap/gnome-3-38-2004/143
/dev/loop8      51M   51M   0 100% /snap/snapd/25577
/dev/sda1       511M  4.0K   511M   1% /boot/efi
/dev/loop9      49M   49M   0 100% /snap/snapd/25935
/dev/loop7      64M   64M   0 100% /snap/core20/2686
tmpfs           391M  32K   391M   1% /run/user/1000
/dev/sr0        52M   52M   0 100% /media/katieconnect/VBox_GAs_7.0.14
katieconnect@Ubuntu20-TheHive:~$ mkdir -p ~/ai-security/{api.logs,screenshots}
katieconnect@Ubuntu20-TheHive:~$ cd ~/ai-security
```

```
katieconnect@Ubuntu20-TheHive:~/ai-security$ sudo apt install -y python3-pip
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libexpat1-dev libpython3-dev libpython3.8-dev
  python-pip-whl python3-dev python3-distutils
  python3-setuptools python3-wheel python3.8-dev
  zlib1g-dev
Suggested packages:
  python-setuptools-doc
The following NEW packages will be installed:
  libexpat1-dev libpython3-dev libpython3.8-dev
  python-pip-whl python3-dev python3-distutils
  python3-pip python3-setuptools python3-wheel
  python3.8-dev zlib1g-dev
0 upgraded, 11 newly installed, 0 to remove and 2 not upgraded.
Need to get 7,280 kB of archives.
After this operation, 28.4 MB of additional disk space will be used.
Get:1 http://ng.archive.ubuntu.com/ubuntu focal-updates/main amd64 libexpat1-dev amd64 2.2.9-1ubuntu0.8 [117 kB]
Get:2 http://ng.archive.ubuntu.com/ubuntu focal-updates/main amd64 libpython3.8-dev amd64 3.8.10-0ubuntu1-20.04.18 [3,950 kB]
Get:3 http://ng.archive.ubuntu.com/ubuntu focal-updates/main amd64 libpython3.8-dev amd64 3.8.10-0ubuntu1-20.04.18 [3,950 kB]
Get:4 http://ng.archive.ubuntu.com/ubuntu focal/main amd64 libpython3-dev amd64 3.8.2-0ubuntu2 [7,236 B]
Get:5 http://ng.archive.ubuntu.com/ubuntu focal-updates/universe amd64 python-pip-whl all 20.0.2-5ubuntu1.11 [1,808 kB]
Get:6 http://ng.archive.ubuntu.com/ubuntu focal-updates/main amd64 zlib1g-dev amd64 1:1.2.11.dfsg-2ubuntu1.5 [155 kB]
Get:7 http://ng.archive.ubuntu.com/ubuntu focal-updates/main amd64 python3.8-dev amd64 3.8.10-0ubuntu1-20.04.18 [514 kB]
Get:8 http://ng.archive.ubuntu.com/ubuntu focal-updates/main amd64 python3-distutils all 3.8.10-0ubuntu1-20.04 [141 kB]
```

```
katieconnect@Ubuntu20-TheHive:~/ai-security$ pip3 install fastapi uvicorn
Collecting fastapi
  Downloading fastapi-0.124.4-py3-none-any.whl (113 kB)
    | 30 kB 83 kB/ | 10 kB 482 kB | 40 kB 101 kB | 20 kB 61 kB/ |
51 kB 126 kB | 102 kB 231 k | 81 kB 200 kB | 112 kB 231 k | 92 kB 224 kB | 71 kB 175 kB |
31 kB/s
Collecting uvicorn
  Downloading uvicorn-0.33.0-py3-none-any.whl (62 kB)
    | 30 kB 658 kB | 10 kB 222 kB | 40 kB 874 kB | 20 kB 440 kB |
51 kB 1.1 MB | 61 kB 1.3 MB | 62 kB 237 kB/s
Collecting pydantic!=1.8,!=1.8.1,!=2.0.0,!=2.0.1,!=2.1.0,<3.0.0,>=1.7.4
  Downloading pydantic-2.10.6-py3-none-any.whl (431 kB)
    | 10 kB 14.9 M | 40 kB 2.0 MB | 20 kB 20.0 M |
51 kB 2.3 MB | 81 kB 2.5 MB | 61 kB 2.5 MB | 92 kB 2.8 MB | 71 kB 2.3 MB |
1.7 M | 102 kB 1.7 M | 133 kB 1.7 M | 112 kB 1.7 M | 143 kB 1.7 M | 122 kB 1.7 M |
174 kB 1.7 M | 153 kB 1.7 M | 184 kB 1.7 M | 163 kB 1.7 M | 194 kB 1.7 M |
225 kB 1.7 M | 204 kB 1.7 M | 235 kB 1.7 M | 215 kB 1.7 M | 245 kB 1.7 M |
276 kB 1.7 M | 256 kB 1.7 M | 286 kB 1.7 M | 266 kB 1.7 M | 317 kB 1.7 M |
296 kB 1.7 M | 307 kB 1.7 M | 328 kB 1.7 M | 308 kB 1.7 M | 339 kB 1.7 M |
```



```
GNU nano 4.8 app.py
from fastapi import FastAPI, Request
import logging
from datetime import datetime

app = FastAPI()

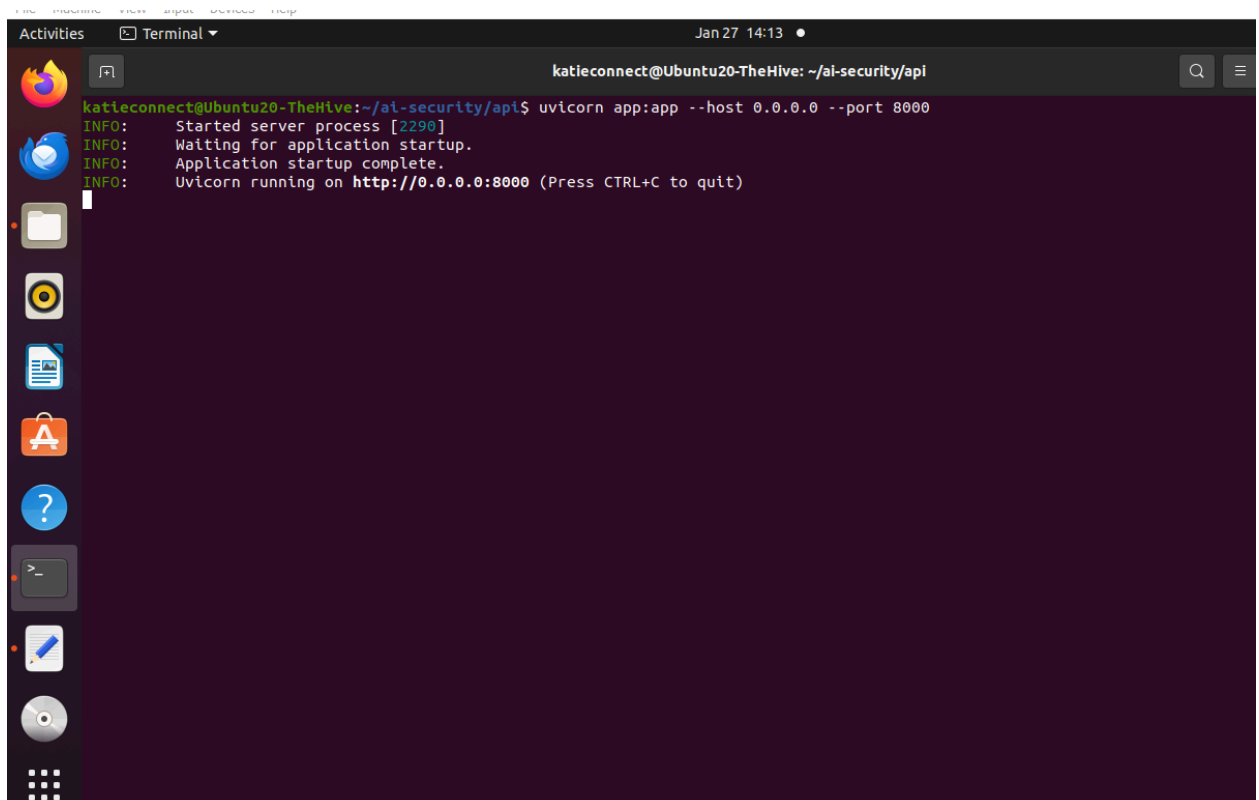
# Logging configuration
logging.basicConfig(
    filename="/home/ubuntu/ai-security/logs/ai_app.log",
    level=logging.INFO,
    format="%(asctime)s | %(levelname)s | %(message)s"
)

@app.post("/chat")
async def chat(request: Request):
    data = await request.json()
    user_input = data.get("prompt", "")
    client_ip = request.client.host

    # Log user interaction
    logging.info(
        f"client_ip={client_ip} input_length={len(user_input)} prompt_preview={user_input[:50]}"
    )

    # Simulated AI response
    response = {
        "reply": "This is a simulated AI response.",
        "timestamp": str(datetime.utcnow())
    }

    return response
```



```
Activities Terminal Jan 27 14:13
katieconnect@Ubuntu20-TheHive: ~/ai-security/api
katieconnect@Ubuntu20-TheHive:~/ai-security/api$ uvicorn app:app --host 0.0.0.0 --port 8000
INFO: Started server process [2290]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)
```

AI Application Running on Ubuntu

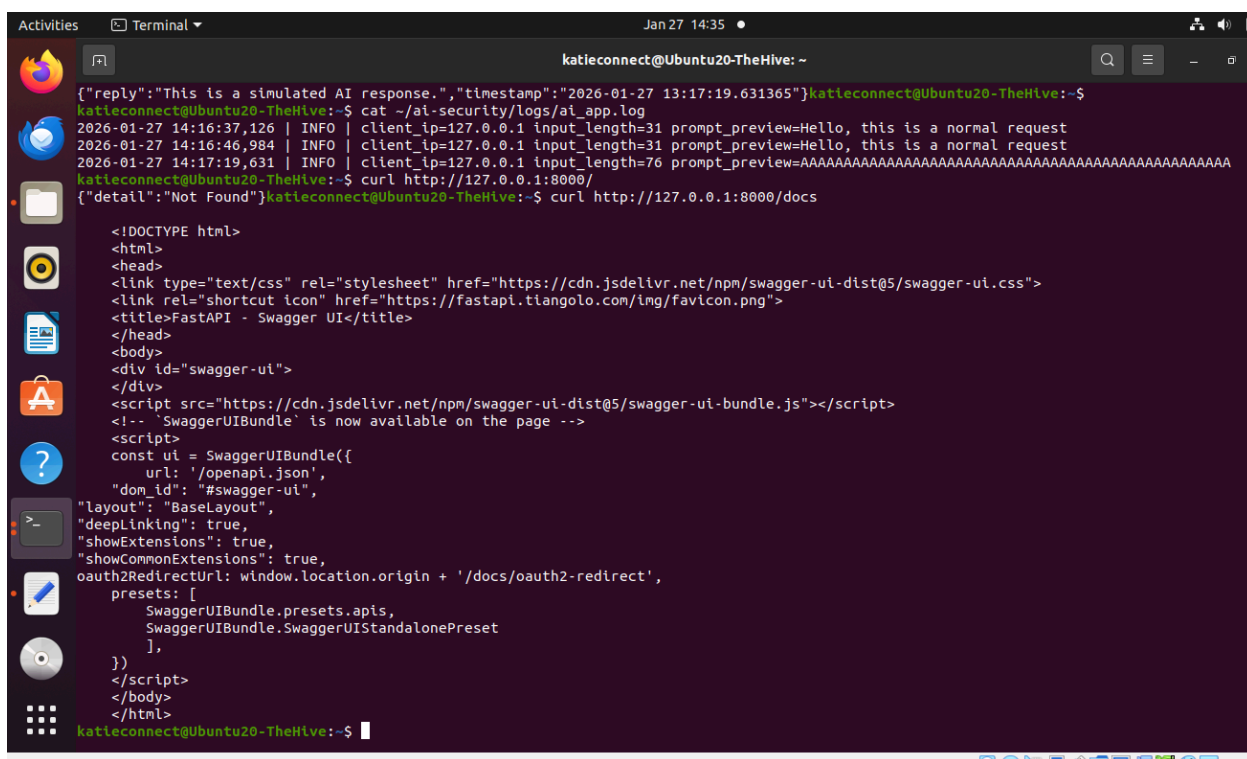
The screenshot displays a Linux desktop environment with a terminal window open. The terminal shows the following sequence of commands and outputs:

```
katieconnect@Ubuntu20-TheHive: ~/ai-security/api
katieconnect@Ubuntu20-TheHive:~/ai-security/api$ uvicorn app:app --host 0.0.0.0 --port 8000
INFO: Started server process [2290]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)
INFO: 127.0.0.1:45132 - "POST /chat HTTP/1.1" 200 OK
INFO:
```

A second terminal window is overlaid on top, showing the results of curl commands used to interact with the chat application:

```
katieconnect@Ubuntu20-TheHive: ~
katieconnect@Ubuntu20-TheHive:~$ curl -X POST http://127.0.0.1:8000/chat \
> -H "Content-Type: application/json" \
> -d '{"prompt":"Hello, this is a normal request"}'
{"reply":"This is a simulated AI response.", "timestamp":"2026-01-27 13:16:37.132
092"}katieconnect@Ubuntu20-TheHive:~$
katieconnect@Ubuntu20-TheHive:~$ curl -X POST http://127.0.0.1:8000/chat -H "Con
tent-Type: application/json" -d '{"prompt":"Hello, this is a normal request"}'
{"reply":"This is a simulated AI response.", "timestamp":"2026-01-27 13:16:46.984
997"}katieconnect@Ubuntu20-TheHive:~$ curl -X POST http://127.0.0.1:8000/chat \
> -H "Content-Type: application/json" \
> -d '{"prompt": "AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAA"}'
{"reply":"This is a simulated AI response.", "timestamp":"2026-01-27 13:17:19.631
365"}katieconnect@Ubuntu20-TheHive:~$
```

[illegible]



```

katieconnect@Ubuntu20-TheHive: ~
{"reply": "This is a simulated AI response.", "timestamp": "2026-01-27 13:17:19.631365"}
katieconnect@Ubuntu20-TheHive:~$ cat ~/ai-security/logs/ai_app.log
2026-01-27 14:16:37,126 | INFO | client_ip=127.0.0.1 input_length=31 prompt_preview=Hello, this is a normal request
2026-01-27 14:16:46,984 | INFO | client_ip=127.0.0.1 input_length=31 prompt_preview=Hello, this is a normal request
2026-01-27 14:17:19,631 | INFO | client_ip=127.0.0.1 input_length=76 prompt_preview=AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
katieconnect@Ubuntu20-TheHive:~$ curl http://127.0.0.1:8000/
{"detail": "Not Found"}
katieconnect@Ubuntu20-TheHive:~$ curl http://127.0.0.1:8000/docs
<!DOCTYPE html>
<html>
<head>
<link type="text/css" rel="stylesheet" href="https://cdn.jsdelivr.net/npm/swagger-ui-dist@5/swagger-ui.css">
<link rel="shortcut icon" href="https://fastapi.tiangolo.com/img/favicon.png">
<title>FastAPI - Swagger UI</title>
</head>
<body>
<div id="swagger-ui">
</div>
<script src="https://cdn.jsdelivr.net/npm/swagger-ui-dist@5/swagger-ui-bundle.js"></script>
<!-- 'SwaggerUIBundle' is now available on the page -->
<script>
const ui = SwaggerUIBundle({
  url: '/openapi.json',
  'dom_id': '#swagger-ui',
  "layout": "BaseLayout",
  "deepLinking": true,
  "showExtensions": true,
  "showCommonExtensions": true,
  oauth2RedirectUrl: window.location.origin + '/docs/oauth2-redirect',
  presets: [
    SwaggerUIBundle.presets.apis,
    SwaggerUIBundle.SwaggerUIStandalonePreset
  ],
})
</script>
</body>
</html>
katieconnect@Ubuntu20-TheHive:~$

```

FastAPI interactive documentation confirming API availability

## Log Ingestion into Splunk

### Forwarder Configuration

The Splunk Universal Forwarder was configured to monitor the AI application log file:

*monitor:///home/katieconnect/ai-security/logs/ai\_app.log*

*index=ai\_security*

*sourcetype=ai\_api\_logs*

```

katieconnect@Ubuntu20-TheHive:/tmp$ wget -O splunkforwarder.deb https://download.splunk.com/products/universalforwarder/releases/9.2.1/linux/splunkforwarder-9.2.1-0f44a9c0b9f3-linux-amd64.deb
--2026-01-27 15:15:01-- https://download.splunk.com/products/universalforwarder/releases/9.2.1/linux/splunkforwarder-9.2.1-0f44a9c0b9f3-linux-amd64.deb
Resolving download.splunk.com (download.splunk.com)... 108.157.78.4, 108.157.78.52, 108.157.78.10, ...
Connecting to download.splunk.com (download.splunk.com)|108.157.78.4|:443... connected.
HTTP request sent, awaiting response... 404 Not Found
2026-01-27 15:15:02 ERROR 404: Not Found.

katieconnect@Ubuntu20-TheHive:/tmp$ wget -O splunkforwarder-10.2.0-d749cb17ea65-linux-amd64.deb "https://download.splunk.com/products/universalforwarder/releases/10.2.0/linux/splunkforwarder-10.2.0-d749cb17ea65-linux-amd64.deb"
--2026-01-27 15:17:12-- https://download.splunk.com/products/universalforwarder/releases/10.2.0/linux/splunkforwarder-10.2.0-d749cb17ea65-linux-amd64.deb
Resolving download.splunk.com (download.splunk.com)... 108.157.78.34, 108.157.78.4, 108.157.78.10, ...
Connecting to download.splunk.com (download.splunk.com)|108.157.78.34|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 82498966 (79M) [binary/octet-stream]
Saving to: 'splunkforwarder-10.2.0-d749cb17ea65-linux-amd64.deb'

splunkforwarder-10.2.0-d749cb17ea65-linux 100%[=====] 78.68M 2.24MB/s in 69s

2026-01-27 15:18:21 (1.14 MB/s) - 'splunkforwarder-10.2.0-d749cb17ea65-linux-amd64.deb' saved [82498966/82498966]

katieconnect@Ubuntu20-TheHive:/tmp$ sudo dpkg -i splunkforwarder-10.2.0-d749cb17ea65-linux-amd64.deb
[sudo] password for katieconnect:
Selecting previously unselected package splunkforwarder.
(Reading database ... 212089 files and directories currently installed.)
Preparing to unpack splunkforwarder-10.2.0-d749cb17ea65-linux-amd64.deb ...
verify that this system has all the commands we will require to perform the preflight step
no need to run the splunk-preinstall upgrade check
Unpacking splunkforwarder (10.2.0) ...
Setting up splunkforwarder (10.2.0) ...
find: '/opt/splunkforwarder/lib/python3.7/site-packages': No such file or directory
find: '/opt/splunkforwarder/lib/python3.9/site-packages': No such file or directory
complete

```

```

katieconnect@Ubuntu20-TheHive:/tmp$ sudo /opt/splunkforwarder/bin/splunk list forward-server
Warning: Attempting to revert the SPLUNK_HOME ownership
Warning: Executing "chown -R splunkfwd:splunkfwd /opt/splunkforwarder"
Your session is invalid. Please login.
Splunk username: Katieconnect
Password:
Active forwards:
    192.168.1.111:9997
Configured but inactive forwards:
    None
katieconnect@Ubuntu20-TheHive:/tmp$

```





## Field Extraction

To enable meaningful analysis, custom field extractions were created. These fields allow filtering, aggregation, and correlation of AI security events across time and sources.

The screenshot shows the Splunk Enterprise Search interface. At the top, there's a navigation bar with 'splunk enterprise' and various tabs like Search, Analytics, Datasets, Reports, Alerts, and Dashboards. Below this, a 'New Search' section is visible. A search bar contains two queries: '1. index=ai\_security' and '2. | table \_time level message'. To the right of the search bar, there's a 'Time range: Last 24 hours' dropdown and a search button. Below the search bar, it shows '3 events (26/01/2026 17:00:00.000 to 27/01/2026 17:27:55.000)' and 'No Event Sampling'. The main content area shows a table with three columns: '\_time', 'level', and 'message'. The table contains three rows of data: '2026-01-27 16:59:05', '2026-01-27 16:58:48', and '2026-01-27 17:00:06'.

The screenshot shows the 'Add new' field extraction configuration form. The form is titled 'Add new' and has a breadcrumb trail: 'Fields > Field extractions > Add new'. The form contains several fields: 'Destination app' (set to 'search'), 'Name' (set to 'ai\_api\_path'), 'Apply to' (set to 'sourcetype'), 'Type' (set to 'Inline'), and 'Extraction/Transform' (set to 'path=(\[[a-zA-Z0-9V\_]+)']). There is a 'named' checkbox and a 'named' field (set to 'ai\_api\_path'). Below the 'Extraction/Transform' field, there is a note: 'If the field extraction is inline, provide the regular expression. If the field extraction uses a transform, specify the transform name.' At the bottom right, there are 'Cancel' and 'Save' buttons.

**splunk enterprise** Apps ▾ Messages ▾ Settings ▾ Activity ▾ Help ▾ Find 🔍

Search Analytics Datasets Reports Alerts Dashboards Search & Reporting

### New Search

Save As ▾ Create Table View Close

1 index=ai\_security  
2 | table \_time path message Time range: Last 24 hours 🔍

✓ 3 events (26/01/2026 17:00:00.000 to 27/01/2026 17:35:03.000) No Event Sampling ▾ Job ▾ || || ⚙ ⬇ ⚡ Smart Mode ▾

Events Patterns **Statistics (3)** Visualization

Show: 20 Per Page ▾ ✓ Format ▾ Preview: On

_time ↕	path ↕	message ↕
2026-01-27 16:59:05		
2026-01-27 16:58:48		
2026-01-27 17:00:06		

### Add new

Fields ▸ Field extractions ▸ Add new

Destination app search ▾

Name \* ai\_client\_ip

Apply to sourcetype ▾ named \* ai\_api\_logs

Type \* Inline ▾

Extraction/Transform \* client\_ip=(d+\\d+\\d+\\d+)

If the field extraction is inline, provide the regular expression. If the field extraction uses a transform, specify the transform name.

Cancel Save

### New Search

```
1 index=ai_security
2 | table _time client_ip message
```

✓ 3 events (26/01/2026 17:00:00.000 to 27/01/2026 17:39:52.000) No Event Sampling ▼

Events Patterns **Statistics (3)** Visualization

Show: 20 Per Page ▼ Format Preview: On

_time	client_ip	message
2026-01-27 16:59:05		
2026-01-27 16:58:48		
2026-01-27 17:00:06		

## Volume-Based Detection

Events were returned, confirming repeated access to specific endpoints during testing.

### Key Insight:

This highlights how different detection strategies behave depending on data volume and activity patterns.

### AI API Abuse Detection – High Endpoint Activity

Save Save As View Create Table View

```
1 index=ai_security
2 | stats count by endpoint
3 | where count > 20
```

Time range: Last 24 hours ▼

✓ 3 events (27/01/2026 14:00:00.000 to 28/01/2026 14:11:26.000) No Event Sampling ▼

Events (3) Patterns Statistics (0) Visualization

Timeline format Zoom Out Zoom to Selection Deselect 1 hour

Format Show: 20 Per Page View: List

Hide Fields	All Fields	i	Time	Event
SELECTED FIELDS # host 1 # source 1 # sourcetype 1		>	27/01/2026 17:00:06.000	TEST_EVENT_FROM_AI_SECURITY Tue 27 Jan 2026 17:00:06 WAT host = Ubuntu20-TheHive : source = /home/katieconnect/ai-security/logs/ai_app.log : sourcetype = ai_api_logs
		>	27/01/2026 16:59:05.000	TEST_EVENT_FROM_AI_SECURITY Tue 27 Jan 2026 16:59:05 WAT host = Ubuntu20-TheHive : source = /home/katieconnect/ai-security/logs/ai_app.log : sourcetype = ai_api_logs
		>	27/01/2026 16:58:48.000	TEST_EVENT_FROM_AI_SECURITY Tue 27 Jan 2026 16:58:48 WAT host = Ubuntu20-TheHive : source = /home/katieconnect/ai-security/logs/ai_app.log : sourcetype = ai_api_logs

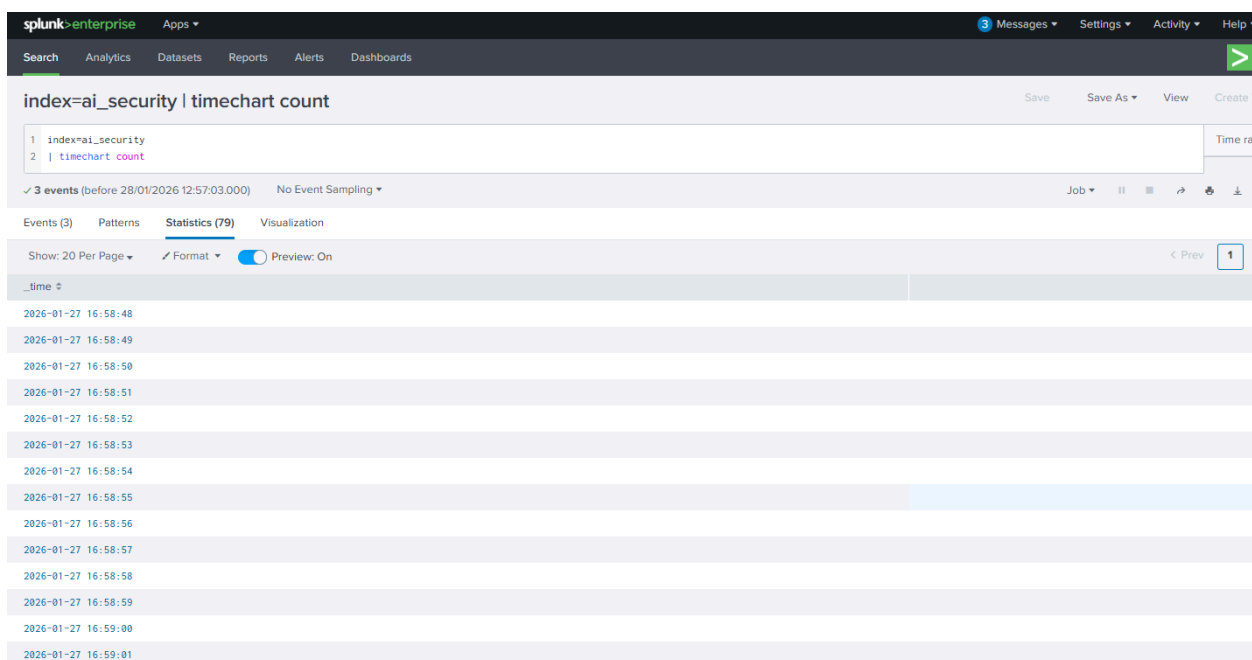
INTERESTING FIELDS  
# date\_hour 2  
# date\_minute 1  
# date\_month 3  
# date\_second 3  
# date\_wday 1  
# date\_year 1

## Dashboards

An **AI API Security Monitoring Dashboard** was created to provide continuous visibility.

### Dashboard Panels

- Total events over time
- Most accessed API endpoints
- Client IP activity



index=ai\_security | timechart count

Save Save As View Create

```
1 index=ai_security
2 | stats count by client_ip
3 | sort -count
```

✓ 3 events (before 28/01/2026 13:02:15.000) No Event Sampling

Events (3) Patterns Statistics (0) Visualization

Timeline format Zoom Out Zoom to Selection Deselect

Format Show: 20 Per Page View: List

< Hide Fields	All Fields	i	Time	Event
SELECTED FIELDS # host 1 # source 1 # sourcetype 1		>	27/01/2026 17:00:06.000	TEST_EVENT_FROM_AI_SECURITY Tue 27 Jan 2026 17:00:06 WAT host = Ubuntu20-TheHive source = /home/katieconnect/ai-security/logs/ai_app.log sourcetype = ai_api_logs
INTERESTING FIELDS # date_hour 2 # date_mday 1 # date_minute 3 # date_month 1 # date_second 3 # date_wday 1 # date_year 1		>	27/01/2026 16:59:05.000	TEST_EVENT_FROM_AI_SECURITY Tue 27 Jan 2026 16:59:05 WAT host = Ubuntu20-TheHive source = /home/katieconnect/ai-security/logs/ai_app.log sourcetype = ai_api_logs
		>	27/01/2026 16:58:48.000	TEST_EVENT_FROM_AI_SECURITY Tue 27 Jan 2026 16:58:48 WAT host = Ubuntu20-TheHive source = /home/katieconnect/ai-security/logs/ai_app.log sourcetype = ai_api_logs

splunk-enterprise Apps

Search Analytics Datasets Reports Alerts Dashboards

3 Messages Settings Activity Help

Top Client IPs

Save Save As View Create

```
1 index=ai_security
2 | stats count by endpoint
```

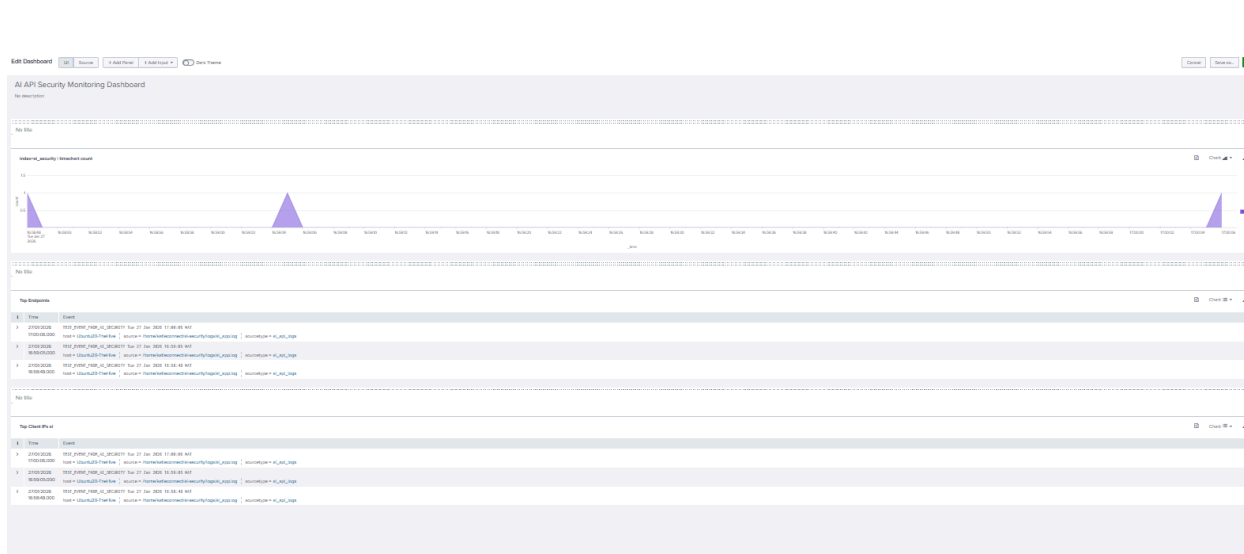
✓ 3 events (before 28/01/2026 13:07:59.000) No Event Sampling

Events (3) Patterns Statistics (0) Visualization

Timeline format Zoom Out Zoom to Selection Deselect

Format Show: 20 Per Page View: List

< Hide Fields	All Fields	i	Time	Event
SELECTED FIELDS # host 1 # source 1 # sourcetype 1		>	27/01/2026 17:00:06.000	TEST_EVENT_FROM_AI_SECURITY Tue 27 Jan 2026 17:00:06 WAT host = Ubuntu20-TheHive source = /home/katieconnect/ai-security/logs/ai_app.log sourcetype = ai_api_logs
INTERESTING FIELDS # date_hour 2 # date_mday 1 # date_minute 3 # date_month 1 # date_second 3		>	27/01/2026 16:59:05.000	TEST_EVENT_FROM_AI_SECURITY Tue 27 Jan 2026 16:59:05 WAT host = Ubuntu20-TheHive source = /home/katieconnect/ai-security/logs/ai_app.log sourcetype = ai_api_logs
		>	27/01/2026 16:58:48.000	TEST_EVENT_FROM_AI_SECURITY Tue 27 Jan 2026 16:58:48 WAT host = Ubuntu20-TheHive source = /home/katieconnect/ai-security/logs/ai_app.log sourcetype = ai_api_logs



## Alerting Limitations


Splunk Enterprise Free does not support scheduled alerts. As a result:

- Detection logic was saved as **Reports**
- Dashboards were used for continuous monitoring
- Alert behavior was documented conceptually

## Conclusion

This project demonstrates how AI application logs can be transformed into actionable security telemetry using Splunk. It reflects real SOC activities including:

- Log ingestion troubleshooting
- Field extraction design
- Detection logic development
- Dashboard-driven monitoring
- Incident readiness planning



The project highlights the growing importance of **AI security observability** and provides a foundation for more advanced detection, alerting, and response workflows.