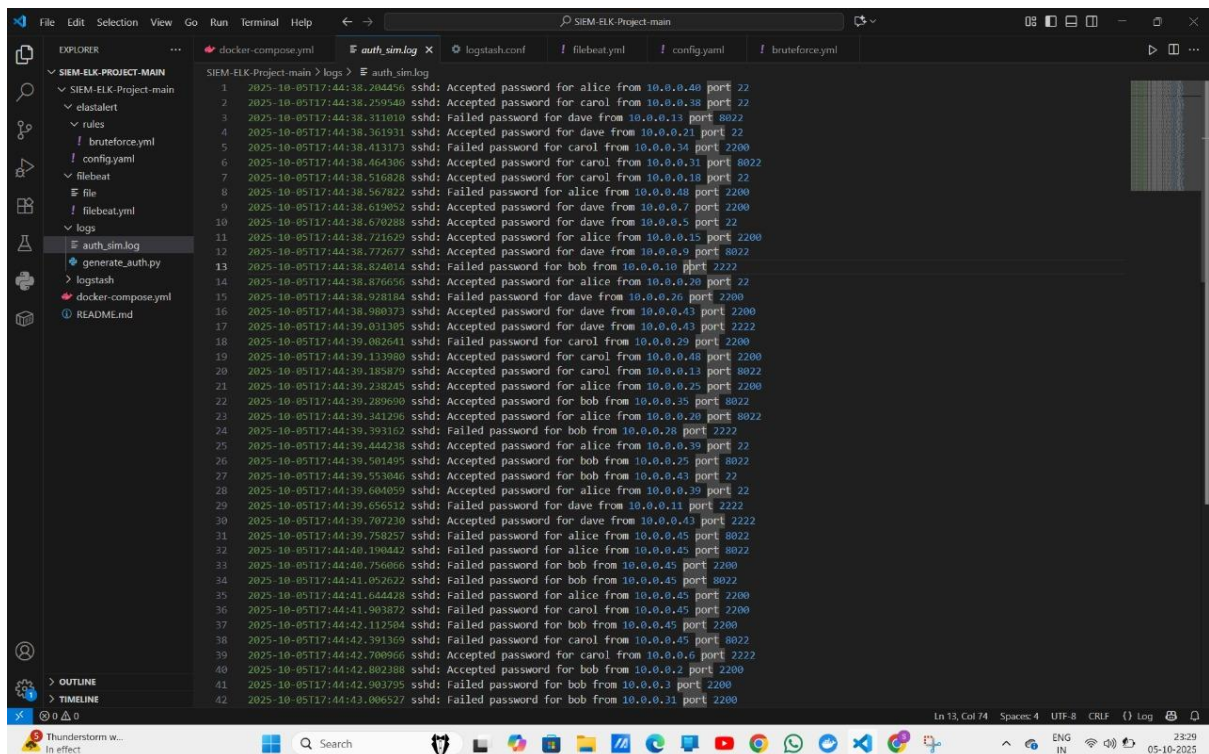


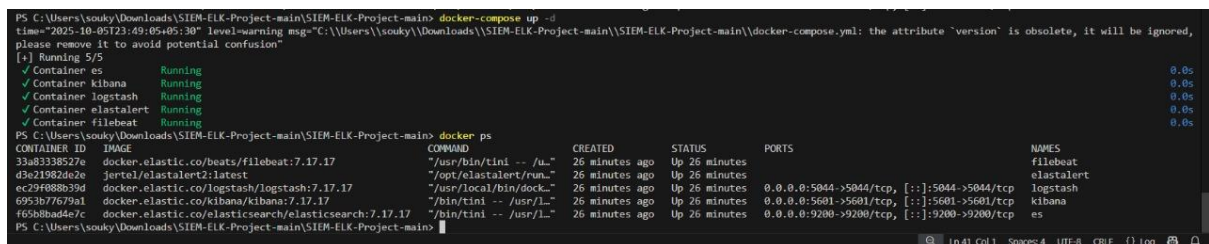
1. Log simulation using python generate_logs.py



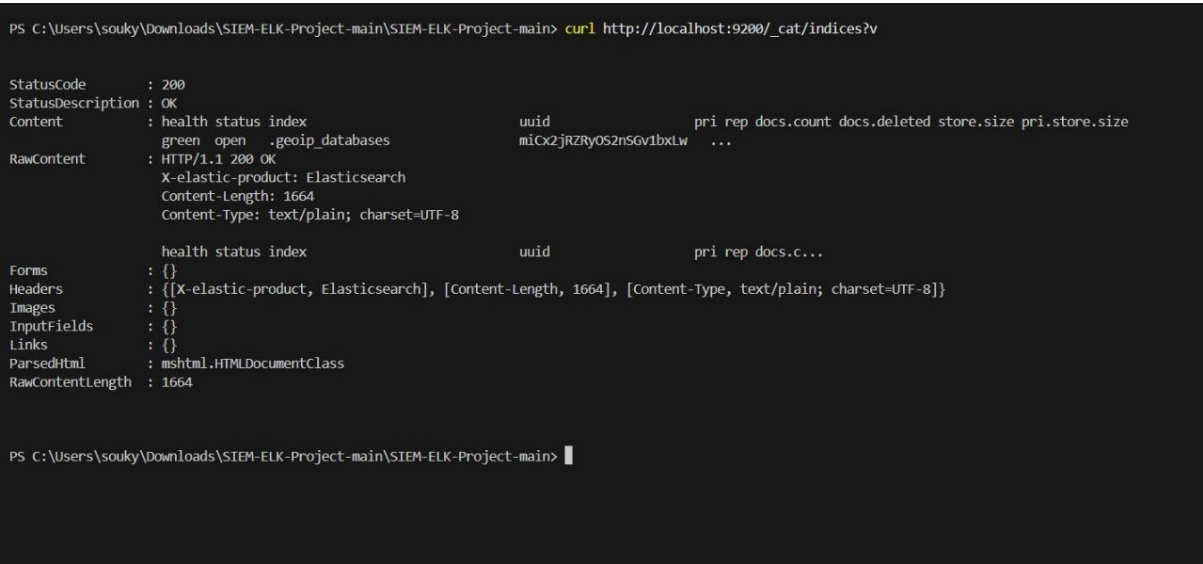
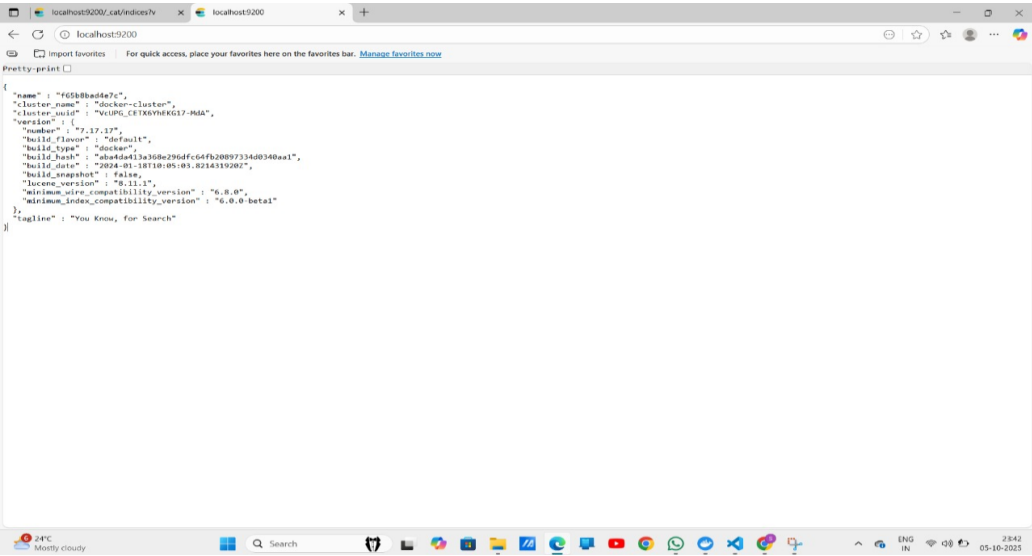
2. Running docker configuration file to pull elk stack images

```
docker-compose up -d
```

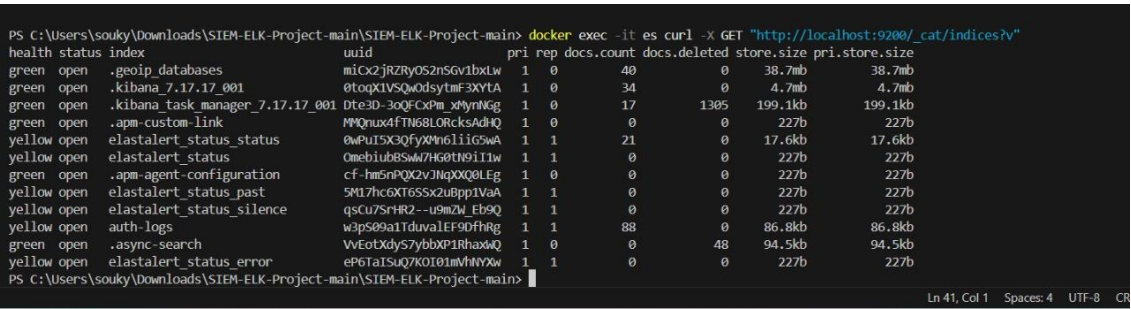
Docker ps (to test the status of images)



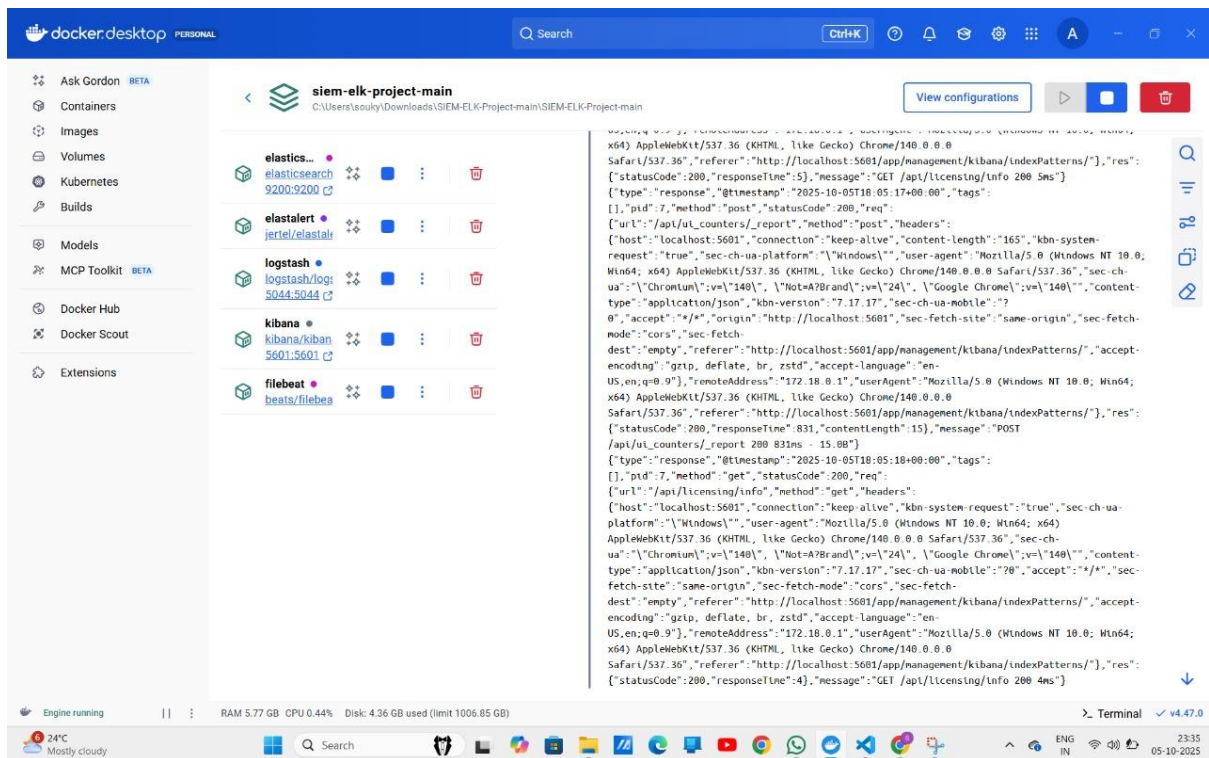
3.sample Raw data structure collected using filebeat agent



4.Health status index



5.Images running in containerised environment in docker

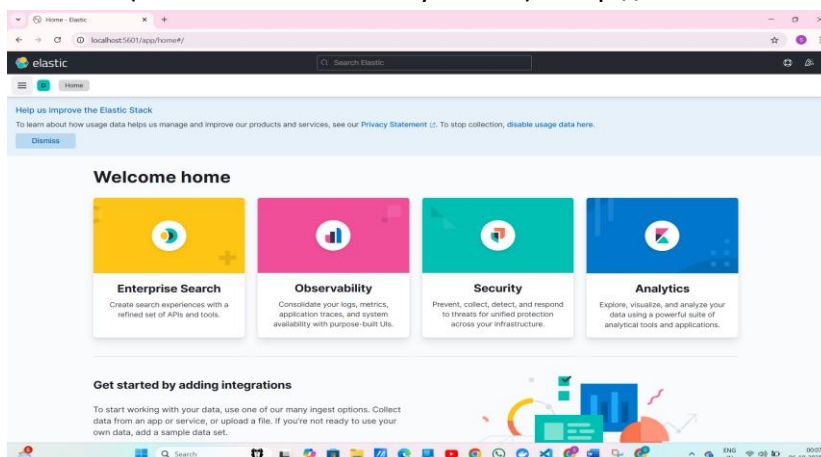


6.Elast alert test

>>>docker logs elastalert

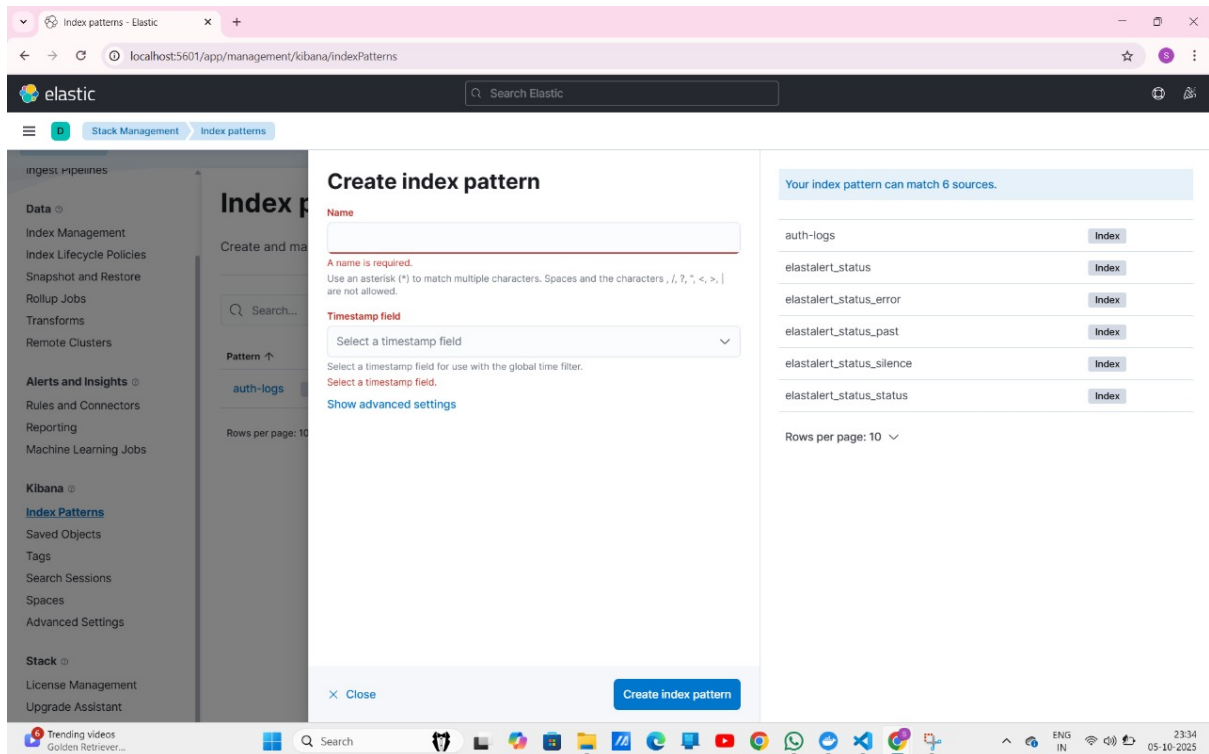


7.Kibana (Visualization and analysis tool) --http://localhost:5601/



8. Create index

Discover>>Index management



Index patterns - Elastic

localhost:5601/app/management/kibana/indexPatterns

elastic

Stack Management > Index patterns

Create index pattern

Name

A name is required.
Use an asterisk (*) to match multiple characters. Spaces and the characters , / ? * < > | are not allowed.

Timestamp field

Select a timestamp field

Select a timestamp field for use with the global time filter.
[Select a timestamp field.](#)
[Show advanced settings](#)

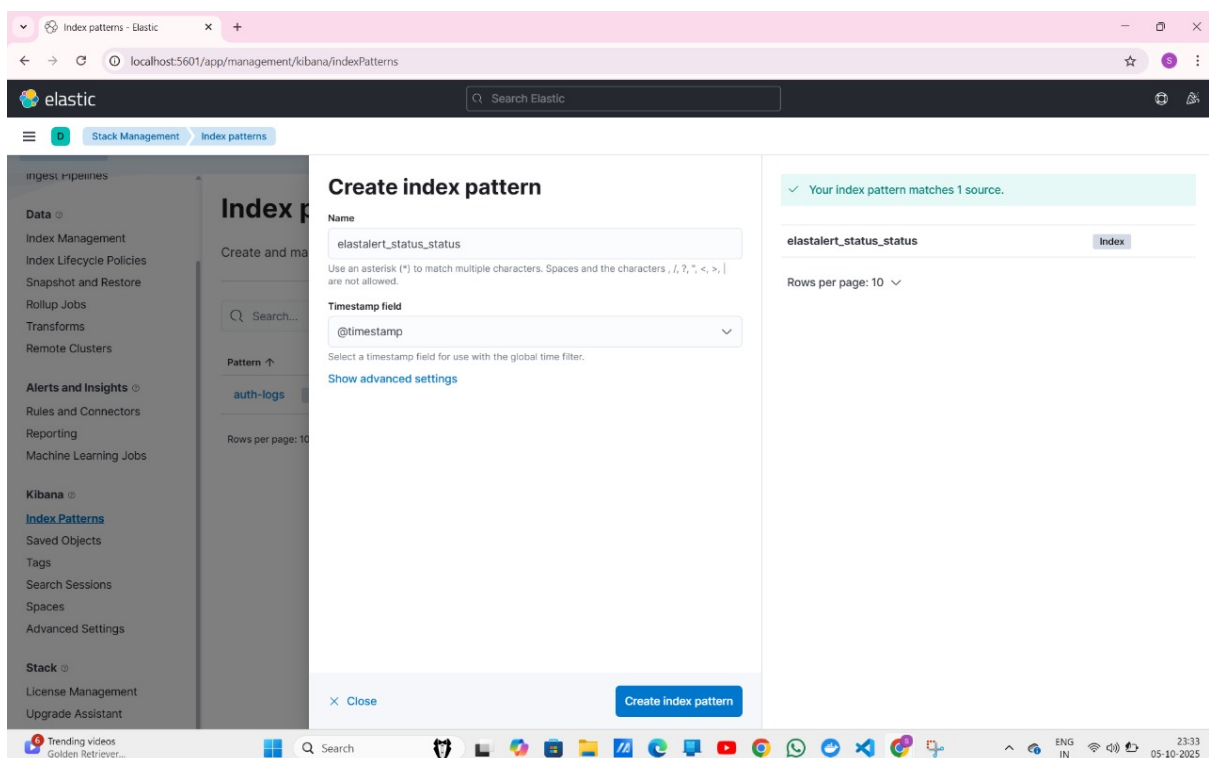
Close

Create index pattern

Your index pattern can match 6 sources.

auth-logs	Index
elastalert_status	Index
elastalert_status_error	Index
elastalert_status_past	Index
elastalert_status_silence	Index
elastalert_status_status	Index

Rows per page: 10



Index patterns - Elastic

localhost:5601/app/management/kibana/indexPatterns

elastic

Stack Management > Index patterns

Create index pattern

Name

elastalert_status_status

Use an asterisk (*) to match multiple characters. Spaces and the characters , / ? * < > | are not allowed.

Timestamp field

@timestamp

Select a timestamp field for use with the global time filter.
[Show advanced settings](#)

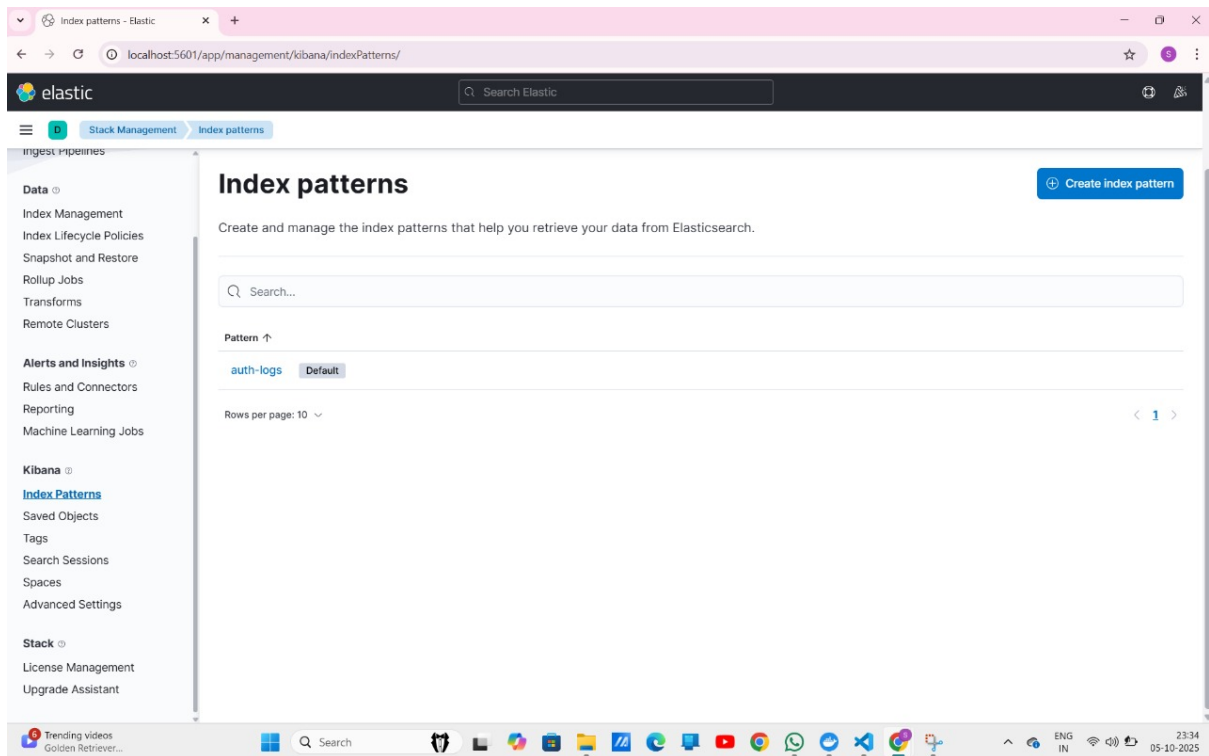
Close

Create index pattern

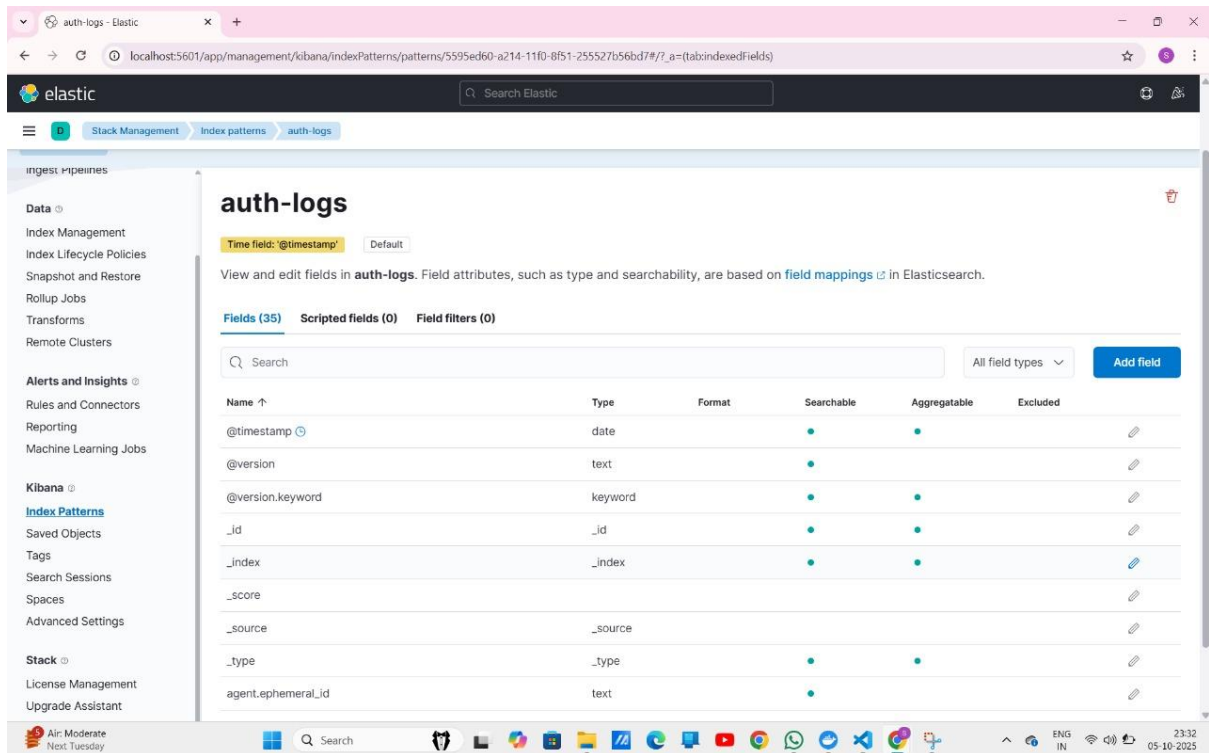
✓ Your index pattern matches 1 source.

elastalert_status_status	Index
--------------------------	-------

Rows per page: 10



Analyse



Discover - Elastic

localhost:5601/app/discover/?_a=(columns:![],filters:![],index:'5595ed60-a214-11f0-8f51-255527b56bd7',interval:auto,query:(language:kuery,query:''),sort:[('@timestamp','desc')])&_g=(filters:![],refreshin...

elastic

Search Elastic

Options New Open Share Inspect Save

Help us improve the Elastic Stack

To learn about how usage data helps us manage and improve our products and services, see our [Privacy Statement](#). To stop collection, [disable usage data](#) here.

Dismiss

Search KQL Last 15 minutes Show dates Refresh

+ Add filter

auth-logs 88 hits Chart options

Search field names

Filter by type 0

_score

f .type

f @timestamp

f @version

f agent.ephemeral_id

f agent.hostname

f agent.id

f agent.name

f agent.type

f agent.version

f ecs.version

f host.name

f input.type

Oct 5, 2025 @ 23:22:30.115 @timestamp: Oct 5, 2025 @ 23:22:30.115 @version: 1 agent.ephemeral_id: 416189a0-451b-41cd-b448-38d22587c21e agent.hostname: 33a83338527e agent.id: 61587868-79a7-4502-9591-0a4e966611fd agent.name: 33a83338527e agent.type: filebeat agent.version: 7.17.17 ecs.version: 1.12.0 host.name: 33a83338527e input.type: log log_source: ssh log.file.path: /var/log/simagents/auth_sim.log log.offset: 7,144 message: 2025-10-05T17:44:47.304268 sshd: Accepted password for carol from 10.0.0.3 port 2222 tags: beats_input_codec_plain_applied, _grokparsefailure _id: 3raBtZkBkt1NqhrKw1YB

Oct 5, 2025 @ 23:22:30.115 @timestamp: Oct 5, 2025 @ 23:22:30.115 @version: 1 agent.ephemeral_id: 416189a0-451b-41cd-b448-38d22587c21e agent.hostname: 33a83338527e agent.id: 61587868-79a7-4502-9591-0a4e966611fd agent.name: 33a83338527e agent.type: filebeat agent.version: 7.17.17 ecs.version: 1.12.0 host.name: 33a83338527e input.type: log log_source: ssh log.file.path: /var/log/simagents/auth_sim.log log.offset: 7,230 message: 2025-10-05T17:44:47.406046 sshd: Accepted password for alice from 10.0.0.22 port 2200 tags: beats_input_codec_plain_applied, _grokparsefailure _id: wLaBtZkBkt1NqhrKw1YB

Oct 5, 2025 @ 23:22:30.115 @timestamp: Oct 5, 2025 @ 23:22:30.115 @version: 1 agent.ephemeral_id: 416189a0-451b-41cd-b448-38d22587c21e agent.hostname: 33a83338527e agent.id: 61587868-79a7-4502-9591-0a4e966611fd agent.name: 33a83338527e agent.type: filebeat

Rain warning in effect

Search

ENG IN

23:32 05-10-2025