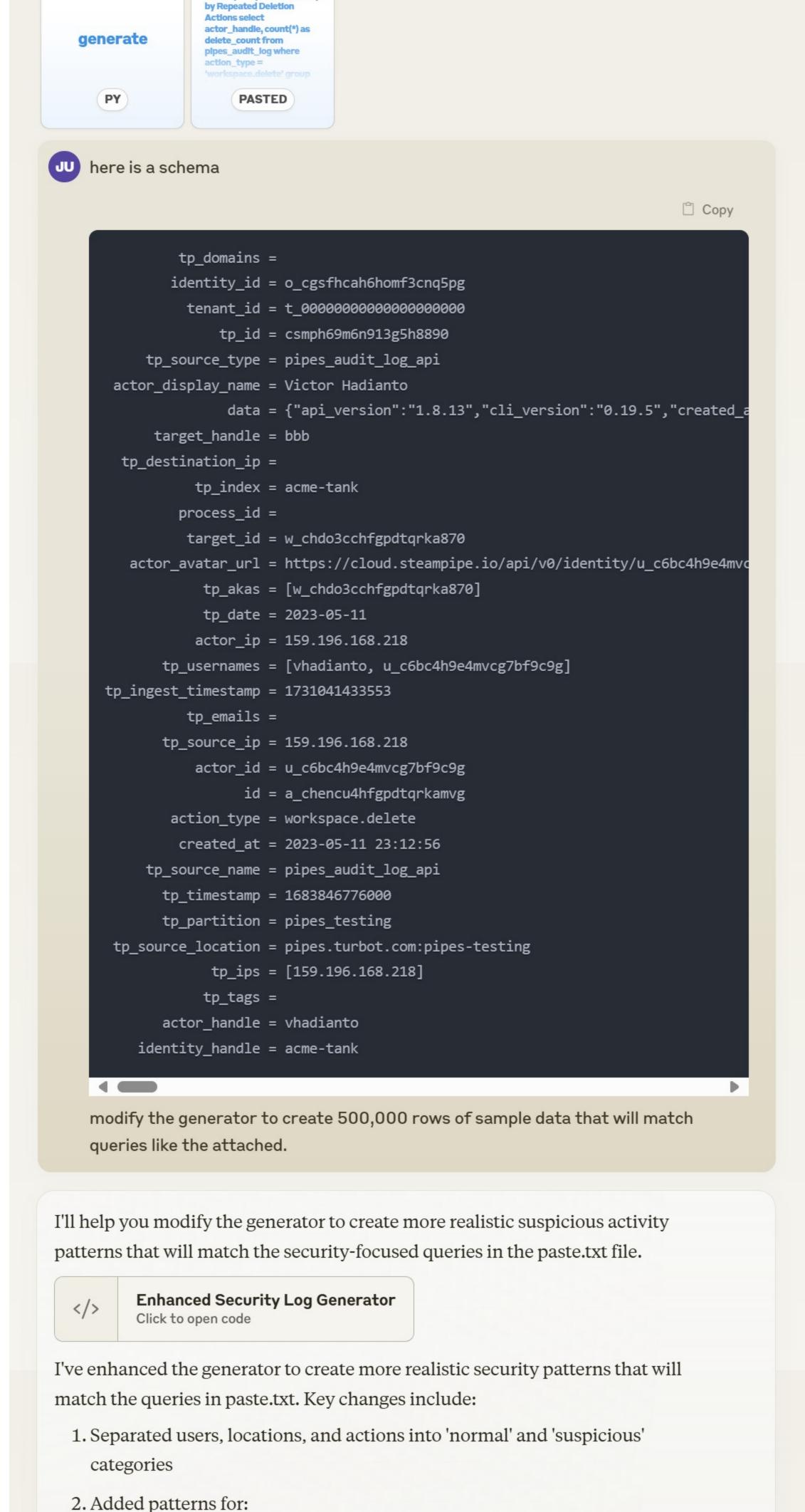
Identify Suspicious Activity



Rapid successive actions
Multiple locations access

• Outdated API/CLI versions for suspicious users

• Higher frequency of sensitive resource access

• IP address reuse across suspicious users

3. Added more realistic data fields including:

• Proper timestamp formats

• State/desired state fields

• Database names

Off-hours activity for suspicious users

Failed login attempts
 Suspicious location access

Multiple usernames per record
 Distribution of records:

• API and CLI versions

Repeated deletion actions
IP address reuse across identities

Unusual login locations

Rapid successive actions

Access to sensitive resources

Off-hours activity

scenarios?

from

the code.

</>

• 85% normal activity during business hours

This will generate data that triggers the security queries, specifically:

• 15% suspicious activity with patterns

Changes to sensitive settings

Would you like me to modify any of the patterns or add additional security

Failed/suspicious login attempts

- D select

 tp_ips,

 array_agg(distinct identity_id) as identities
 - group by
 tp_ips
 having

"pipes_audit_log.tp_date"

Click to open code

count(distinct identity_id) > 1;

pipes_audit_log

LINE 9: count(distinct identity_id) > 1;

Ah, I see the issue. We need to modify the generator to include identity_id in

the records since it's in the schema but we weren't generating it. Let me update

"pipes_audit_log.target_id", "pipes_audit_log.created_at",

Enhanced Security Log Generator

5. Included all timestamp formats and fields

2. Support all the security queries from paste.txt

3. Generate realistic patterns while maintaining data integrity

6. Added tp_partition from location

Now the generated data will:

generate

PY

select

from

where

group by

having

select

from

where

group by

having

actor_handle,

action_type,

pipes_audit_log

actor_handle,

actor_handle,

action_type,

pipes_audit_log

actor_handle,

sensitive_actions > 3;

action_type |

varchar

action_type

actor_handle

varchar

count(*) as sensitive_actions

action_type

count(*) as sensitive_actions

1. Match your schema exactly

Binder Error: Referenced column "identity_id" not found in FROM clause!

Candidate bindings: "pipes_audit_log.identity_handle", "pipes_audit_log.id",

0

every record. Would you like me to modify any of the fields or add additional patterns?

better, but these queries still return 0 rows. try to fix that. also please base the

target_handle in ('database', 'workspace', 'sensitive_resource')

Сору

next iteration off the slightly different script i just uploaded.

The query that failed should now work since identity_id is properly included in

7. Maintained the security patterns but with complete schema compliance

sensitive_actions > 3;

| actor_handle | action_type | sensitive_actions |
| varchar | varchar | int64 |
| 0 rows

target_handle in ('database', 'workspace', 'sensitive_resource')

sensitive_actions

int64

```
0 rows
       select
          actor_handle,
          count(*) as setting_changes
        from
          pipes_audit_log
        where
          action_type = 'settings.update'
          and target_handle in ('database', 'security', 'access')
        group by
          actor_handle
        having
          setting_changes > 3;
                       setting_changes
        actor_handle
          varchar
                            int64
                    0 rows
       select
          actor_handle,
          count(*) as failed_actions
        from
          pipes_audit_log
        where
          action_type like '%failed'
          and target_handle = 'critical_resource'
        group by
          actor_handle
        having
          failed_actions > 3;
        actor_handle | failed_actions
                           int64
          varchar
                   0 rows
Let me modify the script to ensure these queries return results by adjusting how
we generate target_handles and ensuring sufficient frequency of sensitive
actions.
          Enhanced Security Log Generator with Suspicious Patterns
  </>
          Click to open code
Key changes made:
  1. Added suspicious_patterns to define specific sequences of suspicious
    activity
  2. Created generate suspicious sequence method to generate patterns of
    related suspicious actions
  3. Modified target_handle generation to ensure sensitive resources are used
    appropriately
  4. Added forced_target parameter to generate_record to ensure specific targets
    are used in patterns
  5. Modified the main generation loop to include suspicious sequences for each
    pattern type
```

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Claude can make mistakes. Please double-check responses.

6. Ensured suspicious users generate enough events of each type to trigger the

• There will be 5-10 settings.update actions on database/security/access

Actions are properly concentrated per user to exceed the thresholds in the

queries

HAVING clauses

Reply to Claude...

Now the queries should return results because:

database/workspace/sensitive_resource

• Suspicious users will generate 5-12 sensitive actions on

• There will be 5-8 failed actions on critical_resource

Would you like me to adjust any of the patterns or thresholds?