Use Case 1: Failed Login Detection

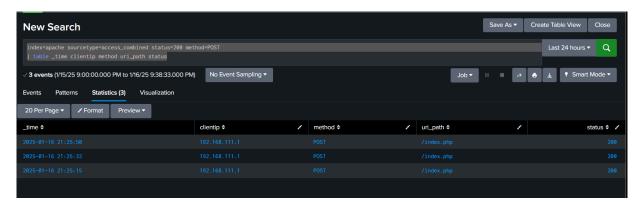
1. Monitor failed login attempts

Do:

index=apache sourcetype=access_combined status=200 method=POST

| table _time clientip method uri_path status

Result: เพื่อใช้ในการ monitor ตรวจสอบการ login ผิดพลาดที่กำลังเข้ามาสู่ระบบ



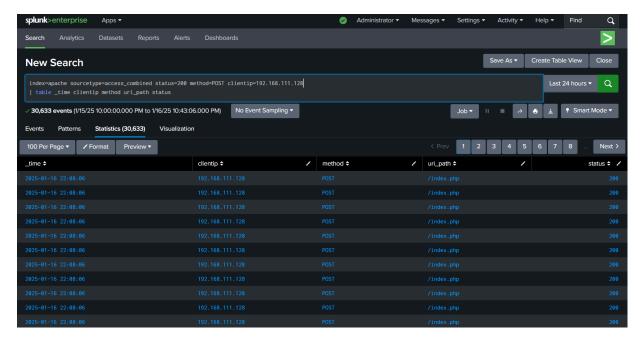
2. Track suspicious login patterns

Do:

index=apache sourcetype=access_combined status=200 method=POST clientip=192.168.111.128

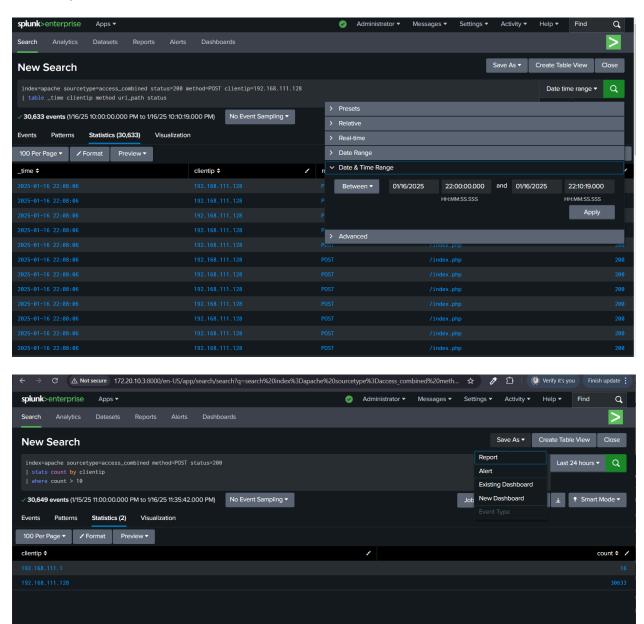
I table time clientip method uri path status

เพื่อตรวจสอบการชุด pattern ที่ดูเหมือนเป็นภัยคุกตาม

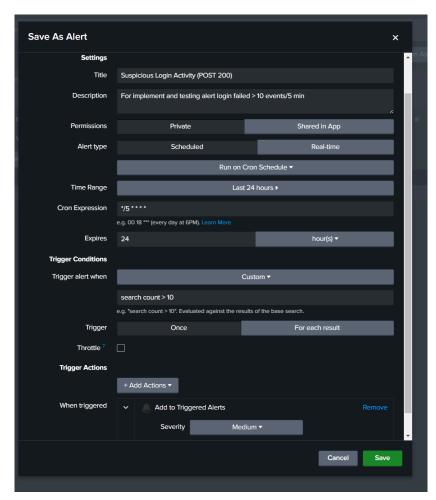


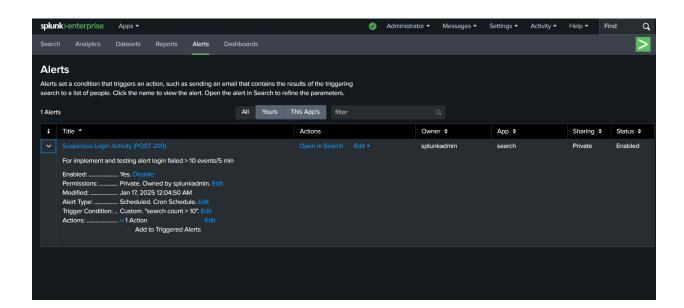
3. Set alerts for brute force attempts

Do:



- Setting alert ตาม method ที่ user ต้องการ

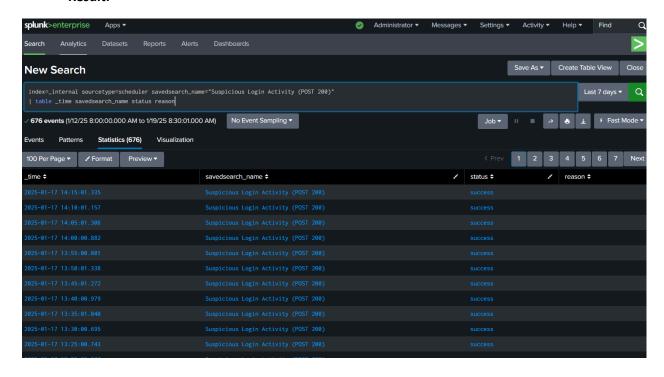




Do:

index=_internal sourcetype=scheduler savedsearch_name="Suspicious Login Activity (POST 200)"

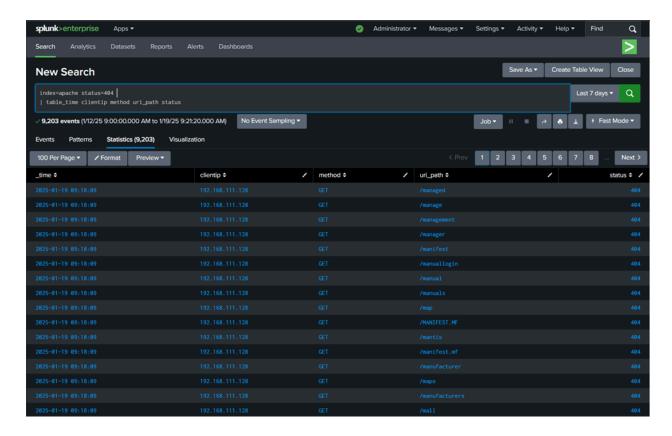
| table _time savedsearch_name status reason



Use Case 2: Unauthorized Directory/Path Access Detection

1. Detect finding paths or hidden files on server

Do: index=apache status=404



Use Case 3: Privilege Escalation Detection

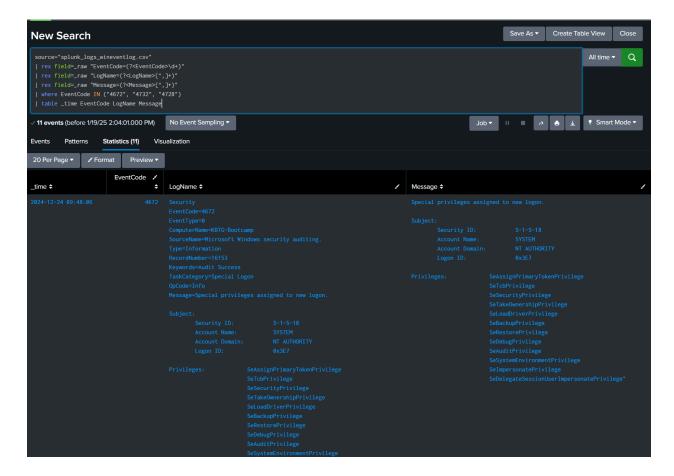
Monitor and detect unauthorized privilege elevation

ตรวจสอบ Privilege Escalation ด้วย EventCode (4672, 4732, 4728)

Do:

```
source="splunk_logs_wineventlog.csv" | rex field=_raw "EventCode=(?<EventCode>\d+)" | rex field=_raw "LogName=(?<LogName>[^,]+)" | rex field=_raw "Message=(?<Message>[^,]+)" | where EventCode IN ("4672", "4732", "4728") | table_time EventCode LogName Message
```

Result:



Alert Conditions:

- 1) Addition of users to privileged groups
- 2) Special privileges assigned to standard users
- 3) Multiple privilege changes in short timeframe

Response Actions:

- 1) Immediate notification to security team
- 2) Review of privilege changes
- 3) Rollback unauthorized changes

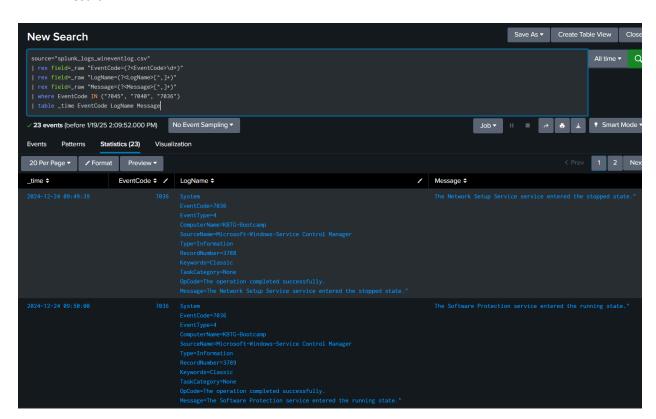
Use Case 4: Service Change Monitoring

Detect unauthorized service modifications

ตรวจสอบ Service Changes (7045, 7040, 7036):

Do:

```
source="splunk_logs_wineventlog.csv"
| rex field=_raw "EventCode=(?<EventCode>\d+)"
| rex field=_raw "LogName=(?<LogName>[^,]+)"
| rex field=_raw "Message=(?<Message>[^,]+)"
| where EventCode IN ("7045", "7040", "7036")
| table_time EventCode LogName Message
```



Alert Conditions:

- 1) Critical services stopped
- 2) Multiple service changes in short period
- 3) Service changes outside maintenance windows
- 4) New service installation

Response Actions:

- 1) Alert system administrators
- 2) Compare against change management records
- 3) Review service configurations

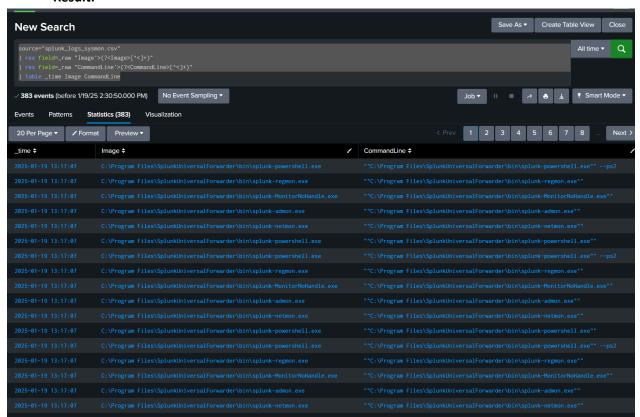
Use Case 5: Suspicious Database Access Detection

Monitor and detect unauthorized database access

ตรวจสอบ Splunk_logs_sysmon และ ตรวจสอบ Process Creation:

Do:

```
source="splunk_logs_sysmon.csv"
| rex field=_raw "Image'>(?<Image>[^<]+)"
| rex field=_raw "CommandLine'>(?<CommandLine>[^<]+)"
| table _time Image CommandLine</pre>
```

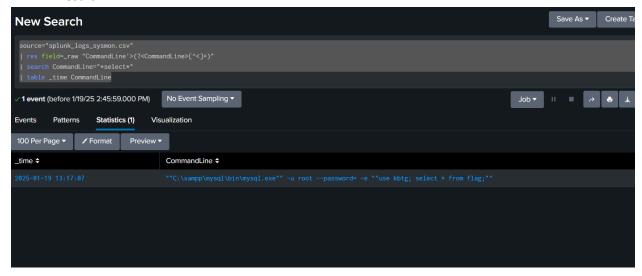


ตรวจสอบ MySQL commands

Do:

```
source="splunk_logs_sysmon.csv"
| rex field=_raw "CommandLine'>(?<CommandLine>[^<]+)"
| search CommandLine="*select*"
| table_time CommandLine</pre>
```

Result:



Alert Conditions:

- 1) Root login without password
- 2) Access to sensitive tables
- 3) Unusual query patterns
- 4) High volume of SELECT statements

Response Actions:

- 1) Log suspicious activities
- 2) Review database access logs
- 3) Implement additional access controls