

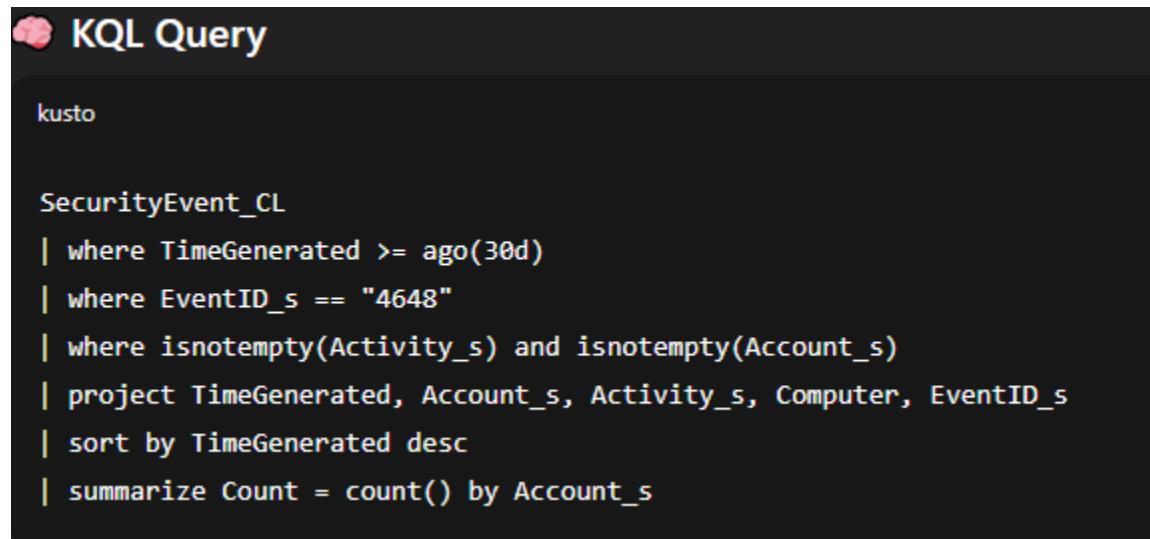
## Adding panels to your Sentinel dashboard

### KQL Threat Hunting Example: Investigating Explicit Credential Logons (Event ID 4648)

As part of my Microsoft Sentinel detective work, I use KQL to hunt for suspicious authentication activity—especially events tied to credential misuse and lateral movement.

The query below focuses on **Event ID 4648**, which indicates that a process attempted to log on using **explicit credentials** (often associated with attacker techniques such as pass-the-hash or privilege escalation).

#### KQL Query



```
kusto

SecurityEvent_CL
| where TimeGenerated >= ago(30d)
| where EventID_s == "4648"
| where isnotempty(Activity_s) and isnotempty(Account_s)
| project TimeGenerated, Account_s, Activity_s, Computer, EventID_s
| sort by TimeGenerated desc
| summarize Count = count() by Account_s
```

#### KQL Query Breakdown (Simplified Bullet Points)

- **Filters Security Logs**  
Queries the SecurityEvent\_CL table where Windows Security Events are stored.
- **Last 30 Days Only**  
| where TimeGenerated >= ago(30d)  
Focuses the investigation on recent activity.
- **Looks for Event ID 4648**  
| where EventID\_s == "4648"  
This event shows when a process uses **explicit credentials** — a common sign of lateral movement, credential theft, or privilege escalation.
- **Removes Empty/Noisy Logs**  
| where isnotempty(Activity\_s) and isnotempty(Account\_s)  
Ensures only clean, useful records are analyzed.
- **Shows Only Important Fields**  
| project TimeGenerated, Account\_s, Activity\_s, Computer, EventID\_s  
Displays the key details for investigation:

- Time
  - Account used
  - Activity performed
  - Computer
  - Event ID
- **Sorts by Newest Activity**
    - | sort by TimeGenerated desc
    - Makes it easier to spot suspicious events in order.
  - **Counts Events per Account**
    - | summarize Count = count() by Account\_s
    - Helps identify:
      - Accounts authenticating more than usual
      - Abnormal service account behavior
      - Credential testing / brute-force attempts
      - Unexpected movement across systems

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