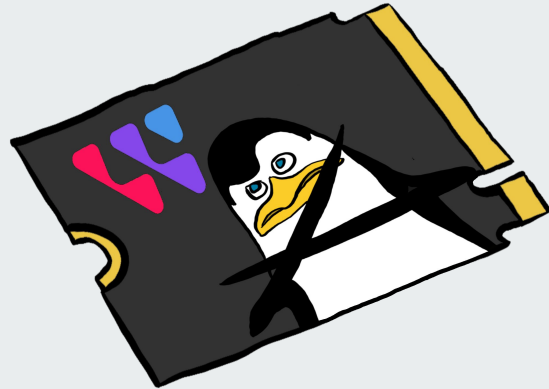


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# WDC System Observability, Analytics & Insights Platform



Team Kowalski

# Our Problem



**Western Digital**

```
# ./biolateness-kp.bt
Attaching 3 probes...
Tracing block device I/O... Hit Ctrl-C to end.
^C

@users:
[256, 512]      2 |
[512, 1K]      10 |@
[1K, 2K]       426 |@
[2K, 4K]       230 |@
[4K, 8K]        9 |@
[8K, 16K]      128 |@
[16K, 32K]     68 |@
[32K, 64K]     0 |
[64K, 128K]    0 |
[128K, 256K]  10 |@
```



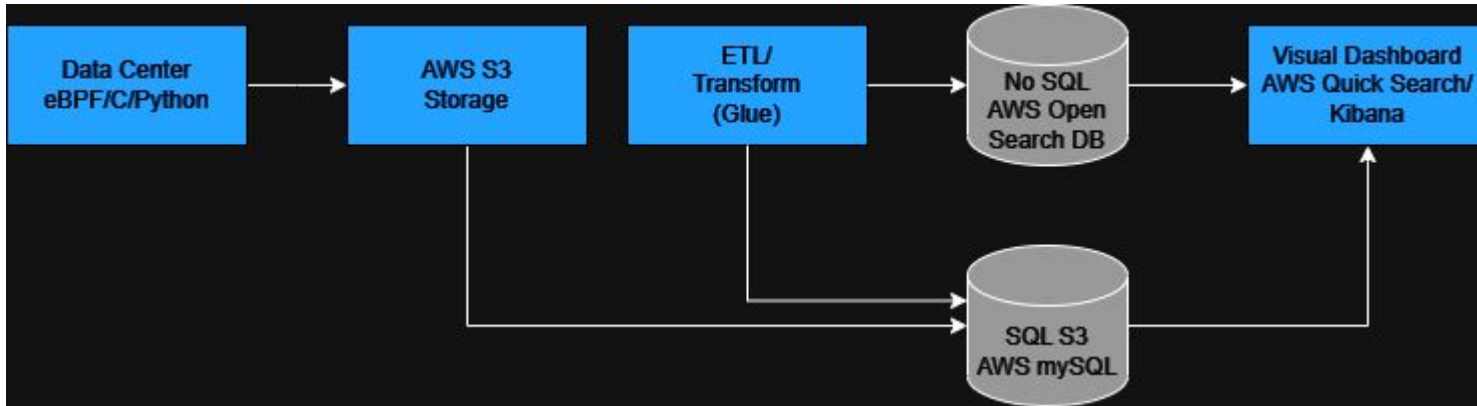
## Client - Rajpal Singh (WD)

- AWS Solutions Architect - Professional at Western Digital
- Western Digital = data storage device manufacturer
- Production Rates Analysis



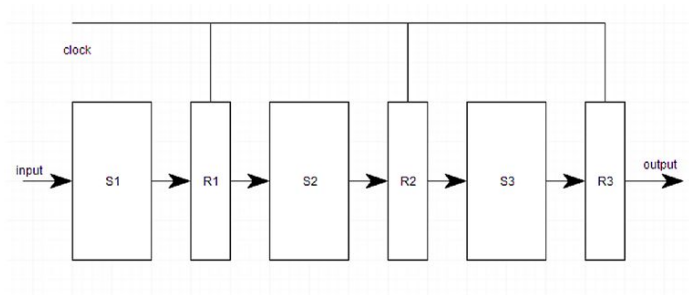
# Western Digital

# Envisioned Solution



# Plans for Development

- Get hands dirty
  - Start practicing with eBPF and Cloud Storage
  - Weekly technical meetings with client
- Responsibility division
  - Data Collection and Analyzing (Bailey and Jake)
  - Data Storage, Pipeline, and Automation (Erick, Nick and Jake)
- Silent Errors





## In Summary...

We are Team Kowalski, responsible for creating a Observability /Analytics platform program for our client Rajpal Singh. Doing this would be highly efficient for the people working at Western Digital, as it'll prevent them from having to manually recreate programs to collect necessary data from their drives. It will also show more trustworthy analysis results as problems like silent errors will be easier to eliminate.

Overall, this will lead into breakthroughs that would boost Western Digital further in the storage hardware industry competition.



**Thank you!**

