

dash1 (cmdb lambda use case).mp4_96 | Summarize Videos, Audio, PDF & Websites

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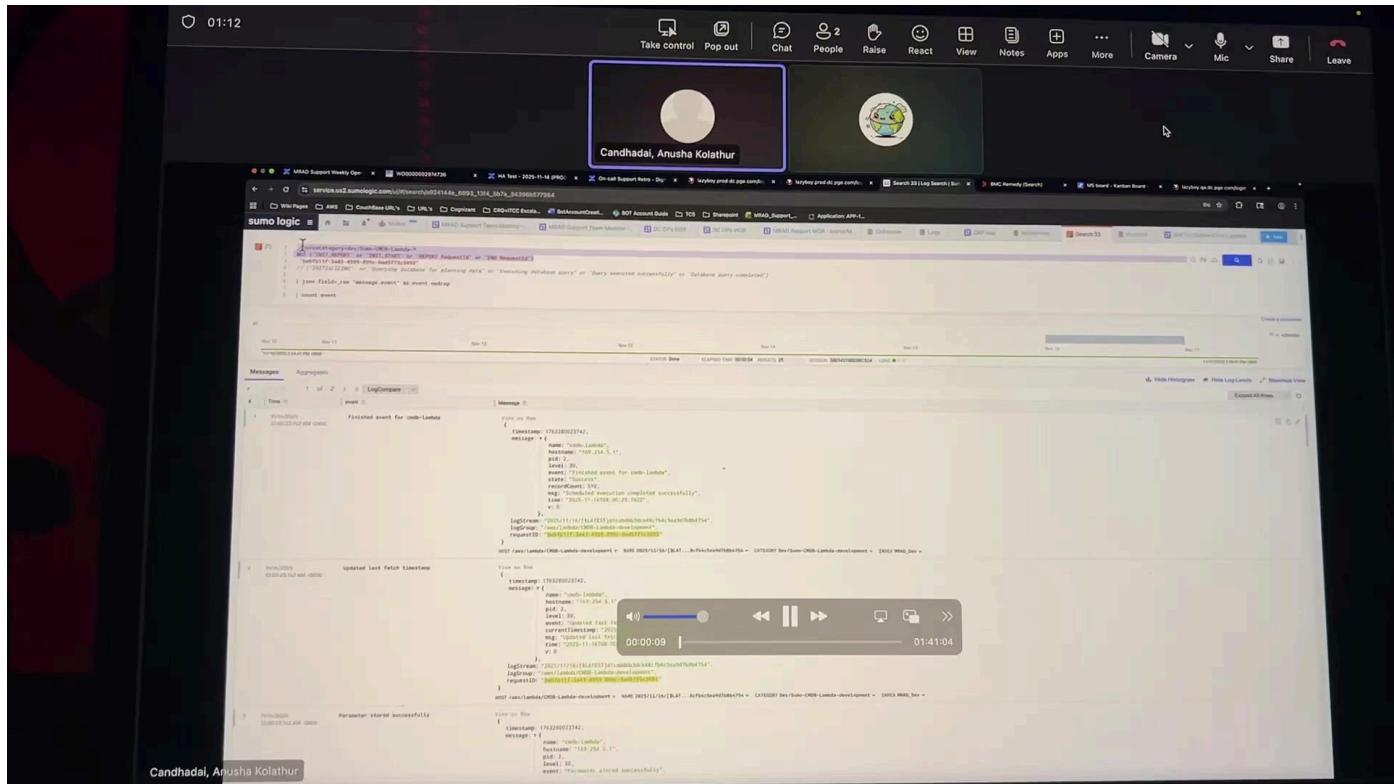


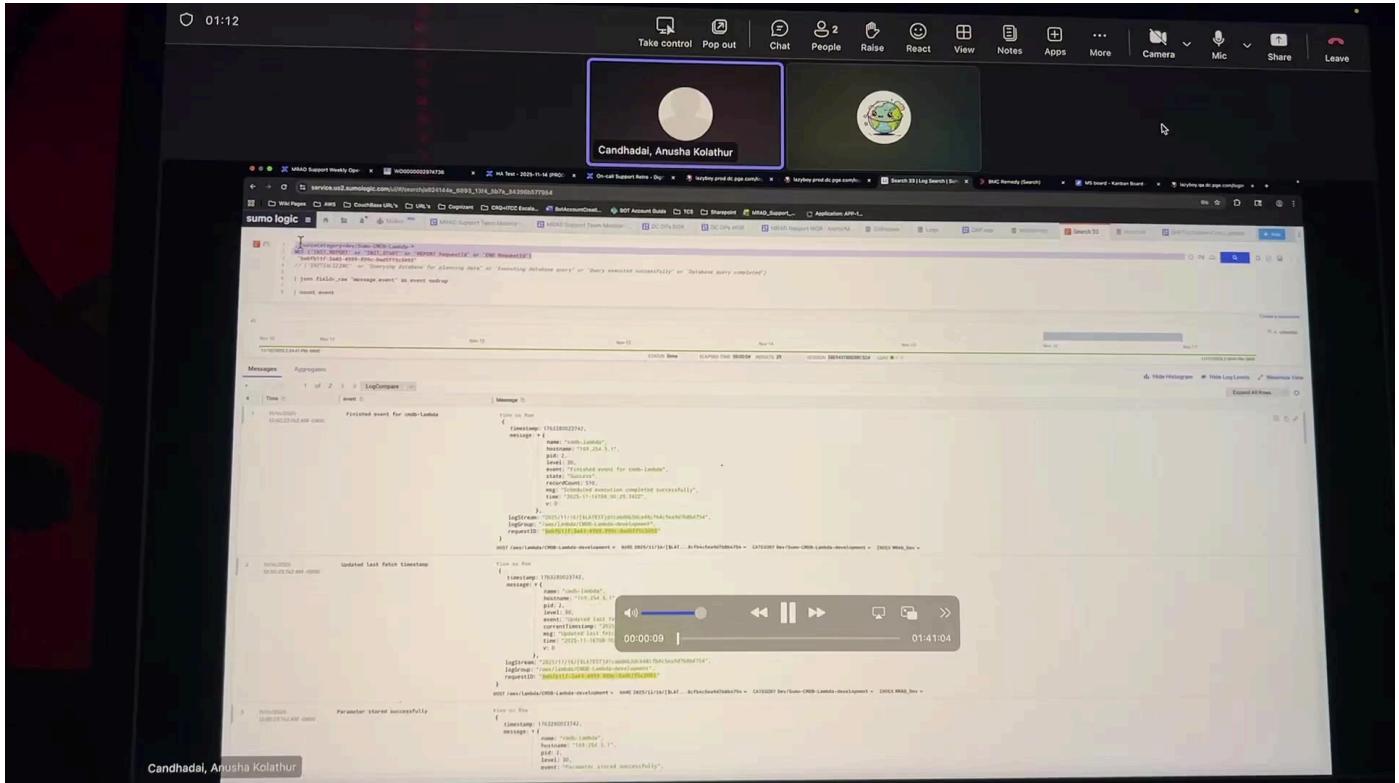
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Unlock the secrets to effective **monitoring** by dissecting raw **CMDB Lambda logs**. Learn the precise steps to filter noise and isolate critical events like **database query execution** and **Couchbase upload** success. This guide shows you how to transform overwhelming logs into actionable dashboard panels focusing only on essential flow and record counts.

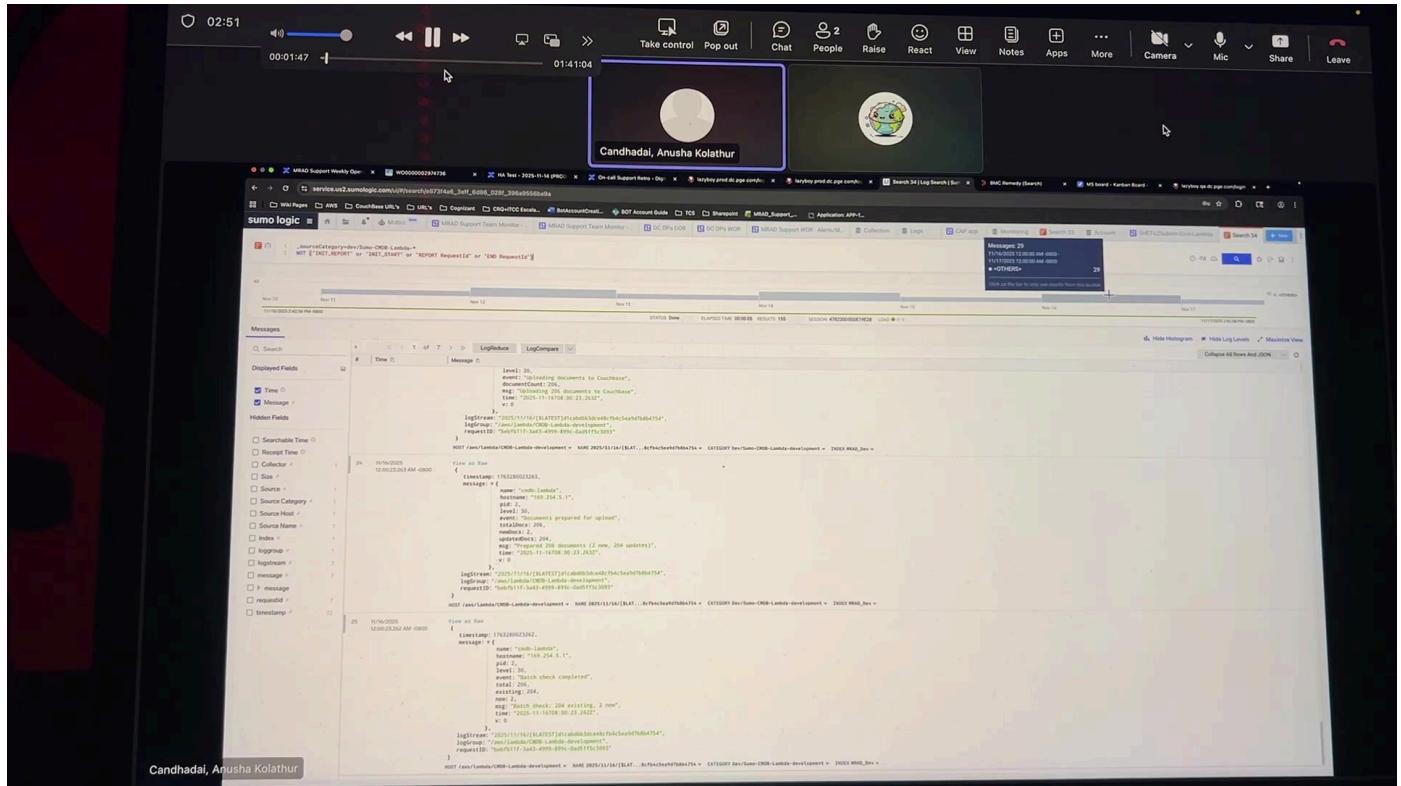
1. Determining Monitoring Scope from Raw CMDB Lambda Logs [1]

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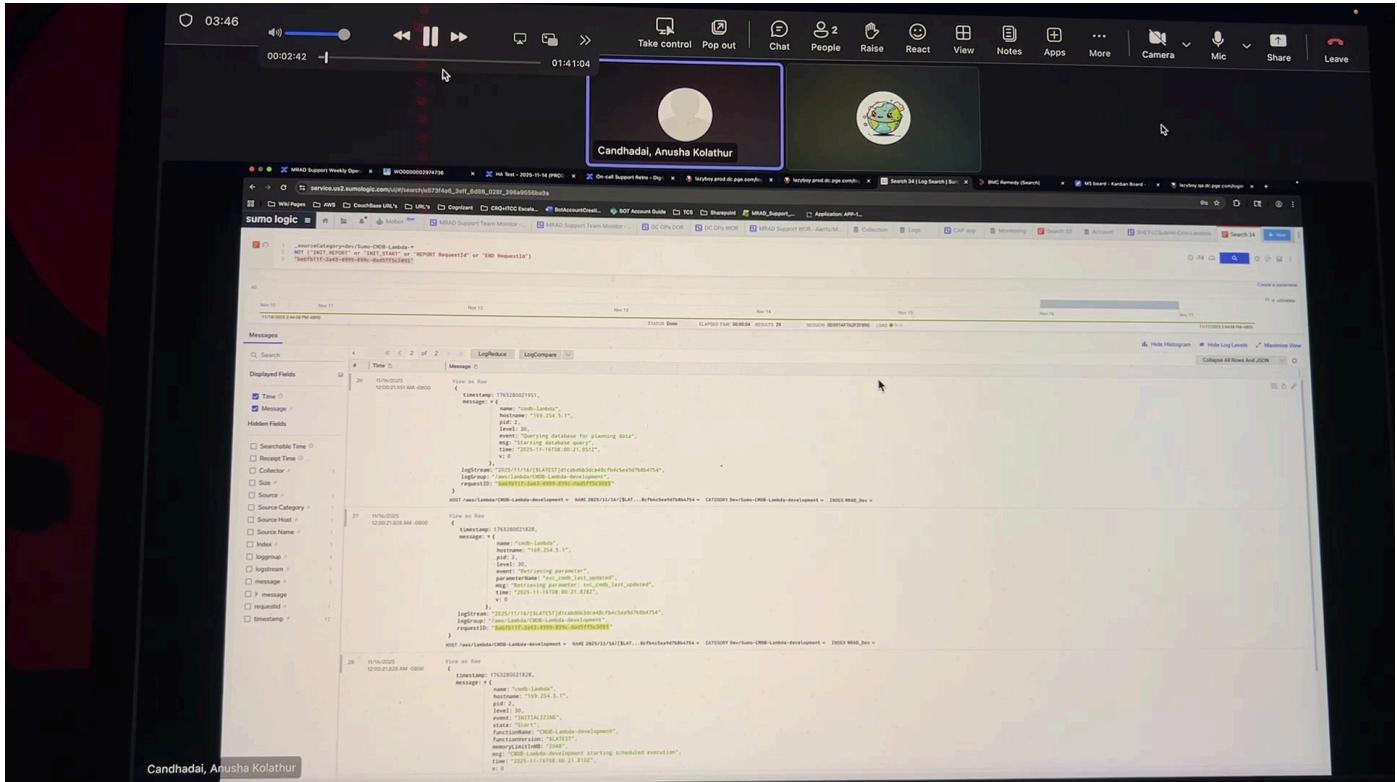


- 1. Determine Monitoring Needs:** Define what to monitor, alert on, and ignore from service logs. [1]
- 2. Start with Raw Log Search:** Begin by searching raw logs for the specific service in depth. [1]
- 3. Observe Initial Log Volume:** A raw search over seven days shows many usual events associated with the lambda. [2]
- 4. First Filtering Step:** The immediate action is to start filtering the logs to see only desired events. [3]
- 5. Ignore Unnecessary Events:** Exclude events not needed for reports or monitoring visualization. [4]
- 6. Ignore Specific Log Patterns:** Use a "not" filter to ignore known unnecessary log patterns for this lambda. [6]
- 7. Verify Full Log Visibility:** Confirm that all logs for the service of concern are now visible. [8]

8. Determine Service Run Frequency: Check how often the service runs, such as once per day as stated. [14]

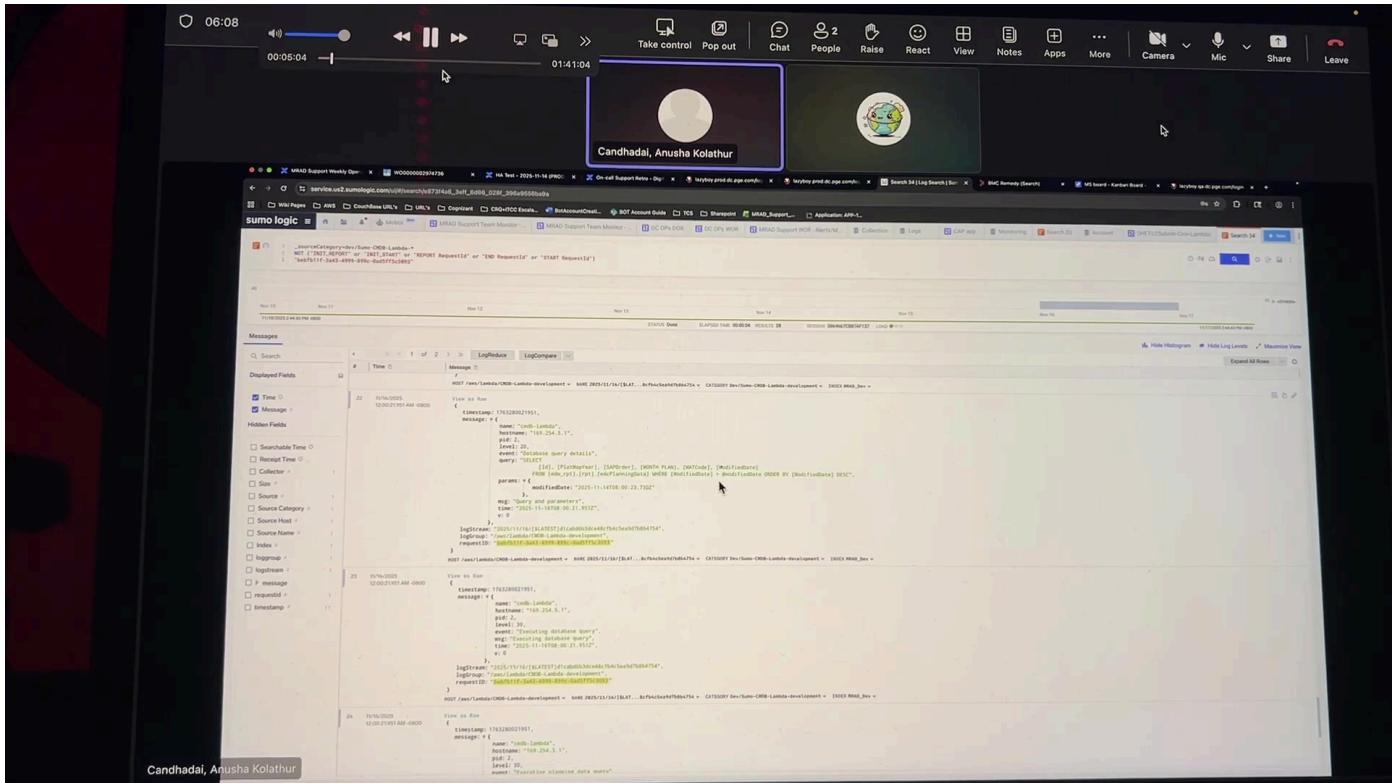


- 1. Pull Logs by Single Thread:** For real-time running services, start pulling logs based on a unique identifier. [16]
- 2. Identify Unique Transaction Value:** Look for a unique value like a Transaction ID, Document ID, or Request ID. [17]
- 3. Identify Available Identifier:** In this log set, there is no Transaction ID visible at a higher level. [18]
- 4. Use Request ID:** The available unique identifier is the **Request ID** field. [21]
- 5. Request ID Function:** This ID uniquely identifies every transaction the lambda processes. [23]
- 6. Filter by Specific Request ID:** Filter the logs for one specific Request ID to isolate its flow. [25]
- 7. Count Specific Logs:** For the isolated transaction, there are around 29 specific logs. [26]

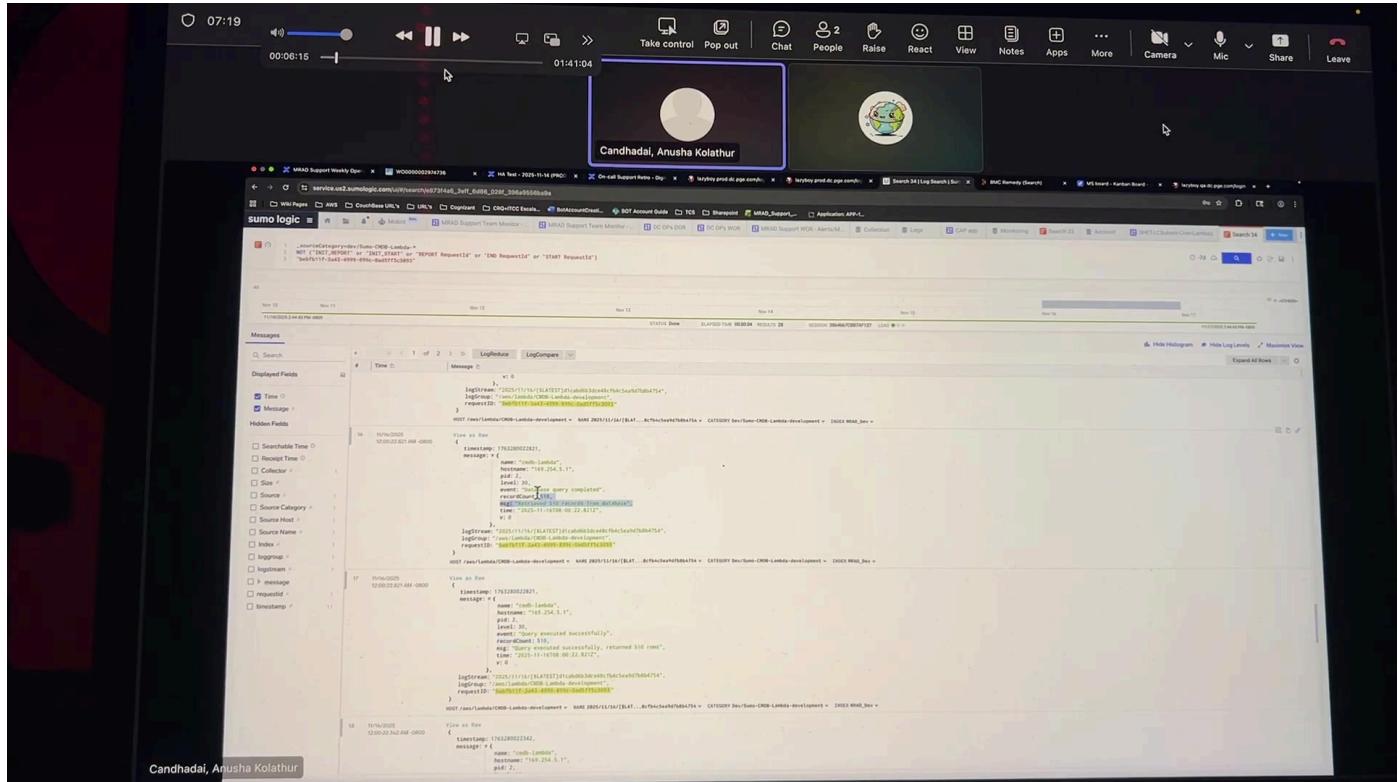


- 1. Start Reading Log Messages:** Begin reading through the log messages to understand the service actions. [28]
- 2. Filter Start Message:** Filter out the "start request ID" log as it is not needed. [29]
- 3. Understand Each Log:** The job is to understand what each log tells you about the service. [31]
- 4. Read Logs Backwards:** Always start reading from the end (bottom) of the logs, not the beginning. [34]
- 5. Lambda Initialization:** The flow starts at the bottom with the lambda being initialized. [37]
- 6. Parameter Retrieval:** The next log shows retrieving a parameter from the parameter store. [39]
- 7. Database Query Start:** The service begins querying the database for planning data. [44]
- 8. Using Last Updated Timestamp:** Data fetching uses the **last updated timestamp** stored in the database. [47]
- 9. Data Fetching Scope:** All data since this last updated timestamp is being fetched. [48]
- 10. Unnecessary Query Logs:** Logs showing the query execution details are unnecessary for monitoring. [49]

11. Summary of Initial Steps: The service retrieves a parameter (date) and queries the database for records newer than that date. [57]

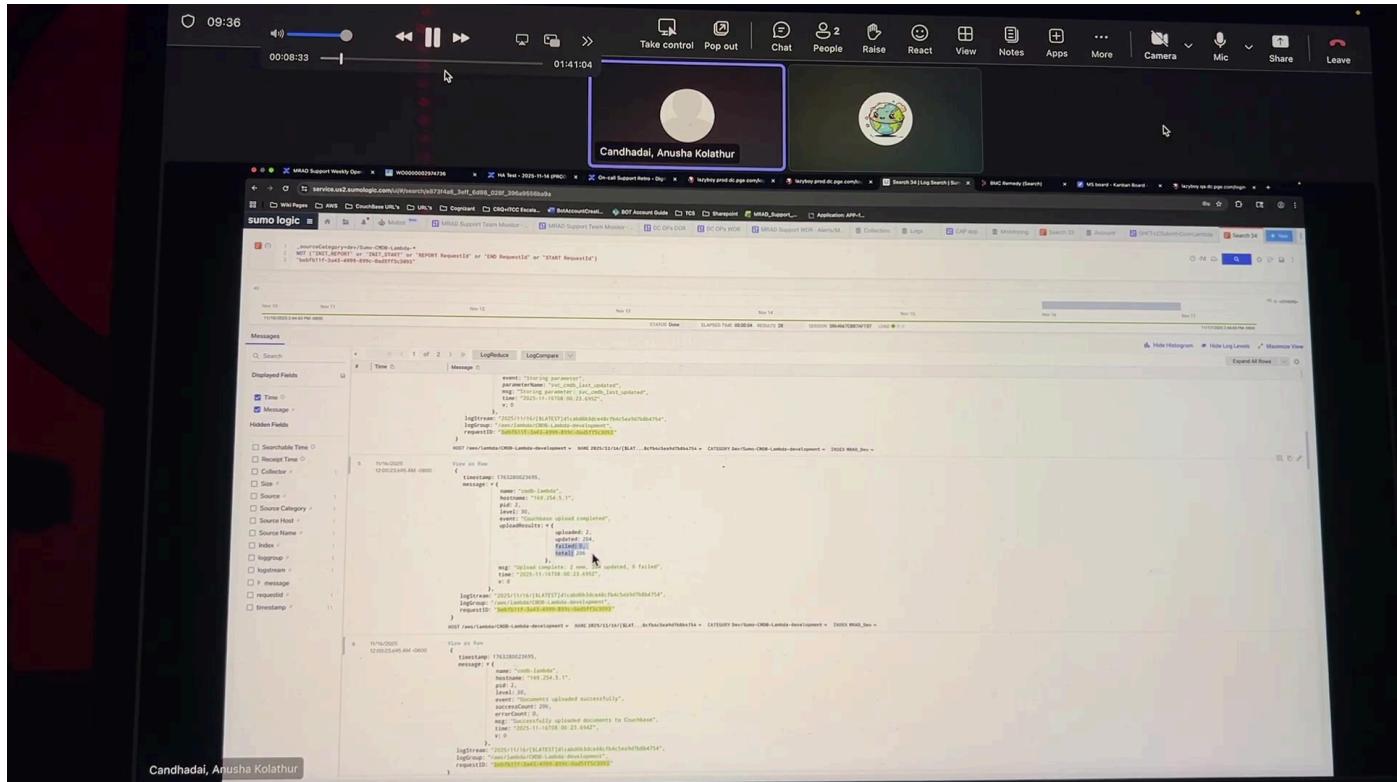


1. **Database Connection Pool Creation:** The next important log shows the creation of the database connection pool. [58]
 2. **Fetching Credentials:** Another parameter retrieval occurs for the database **username** and **password** from the parameter store. [59]
 3. **Connection Success:** "Database pool creation successful" confirms the database connection is established. [62]
 4. **Executing the Query:** The service executes the query using the fetched date range. [63]
 5. **Record Count Retrieved:** The query execution successfully returns a **record count** (510 records this time). [66]
 6. **Query Completion Logs:** Logs confirm query execution completion, though some are duplicates. [68]



- 1. Starting Couchbase Upload:** The next phase involves starting the upload to Couchbase. [72]
- 2. Lambda's Two Aspects:** The lambda fetches data from SQL Server and updates/uploads documents in Couchbase. [73]
- 3. Update or Create Logic:** If data exists, documents are updated; if not, they are created. [76]
- 4. Records Uploaded:** The log confirms uploading 510 records to Couchbase. [79]
- 5. Data Formatting:** Logs show *processing planning data* before upload, indicating data formatting. [80]
- 6. Duplicate Removal:** Duplicate removal occurs, showing original count, unique count, and duplicate count. [81]
- 7. Batch Processing:** The service processes records in batches, with a maximum size of 500. [84]
- 8. Ignoring HTTP Client Log:** The "HTTP client" log is unnecessary and should be ignored. [89]
- 9. Batch Check Results:** The batch check shows 204 existing records and 2 new records to be created. [92]

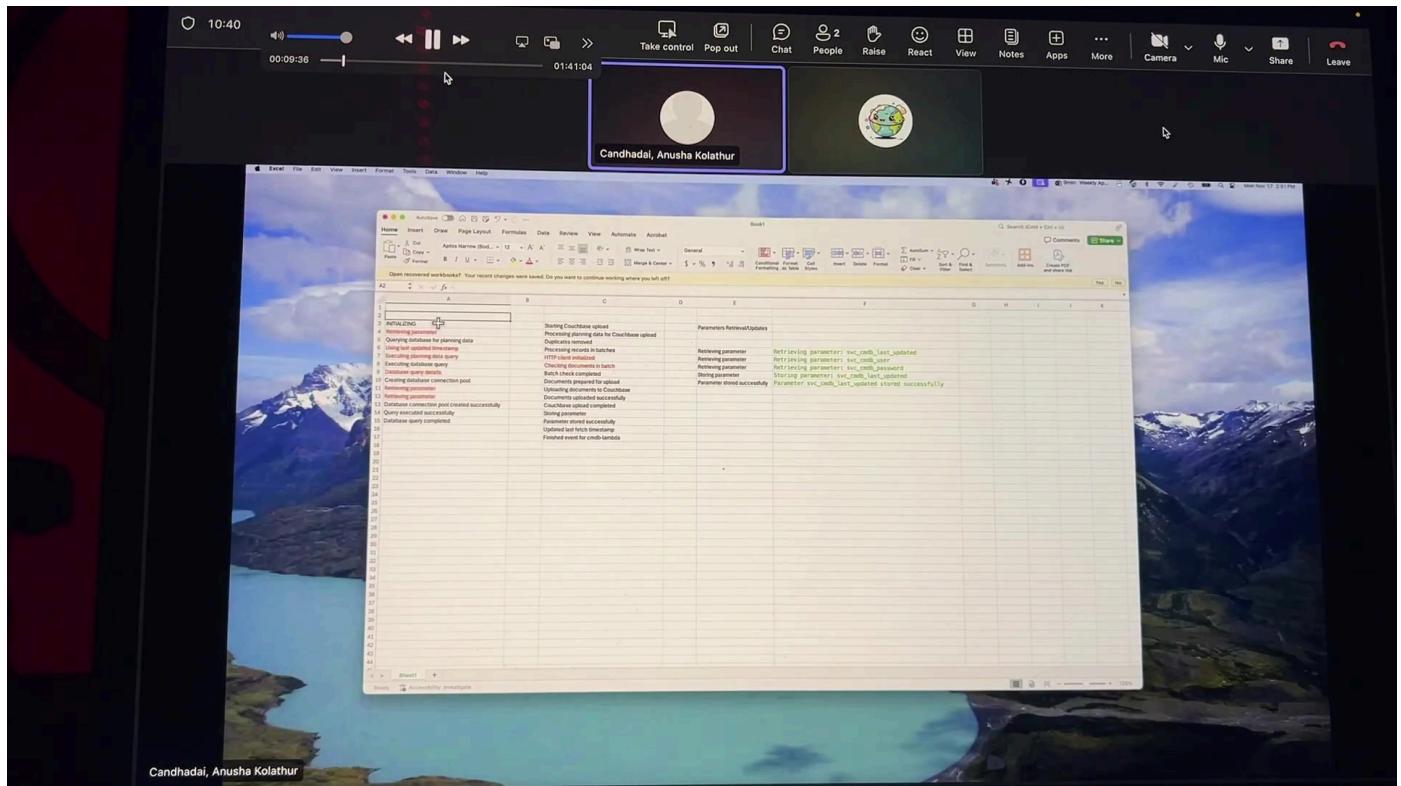
10. **Document Preparation:** Logs confirm documents are prepared for upload, showing total, new, and updated docs counts. [95]
11. **Successful Upload:** Logs confirm documents uploaded successfully, and **Couchbase upload completed.** [99]



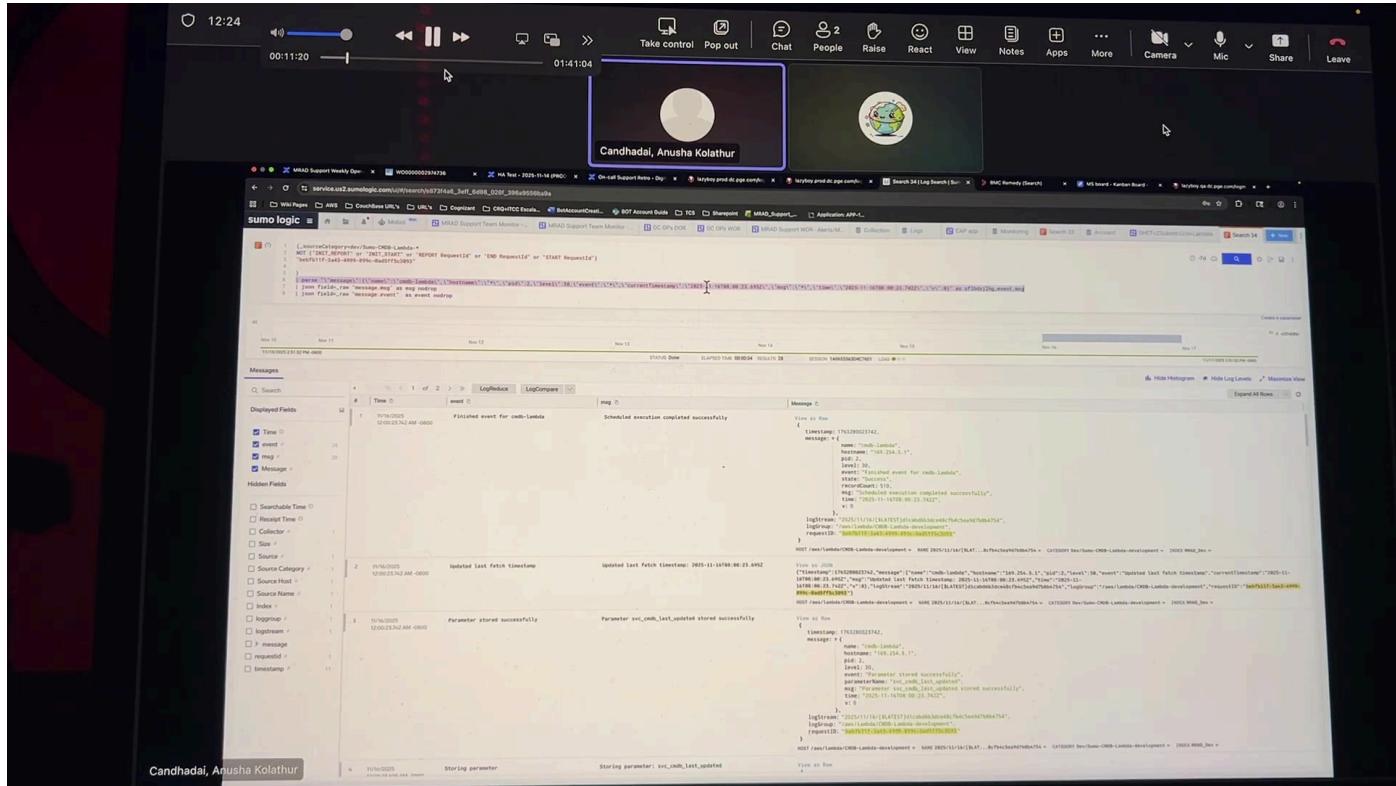
1. **Updating Parameter Store:** Upon successful upload, the last fetch timestamp must be updated in the parameter store. [100]
2. **Next Run Preparation:** Updating the timestamp ensures the next lambda run picks up records from this specific time. [101]
3. **Lambda Finished:** The final event confirms the lambda finished its execution. [101]
4. **Overall Lambda Job:** The lambda fetches data from the database based on a date and uploads it to Couchbase. [102]
5. **Focus on Key Aspects:** The job involves two main aspects: the **database side** and the **Couchbase side.** [104]

2. Parsing Fields for Monitoring Visualization [106]

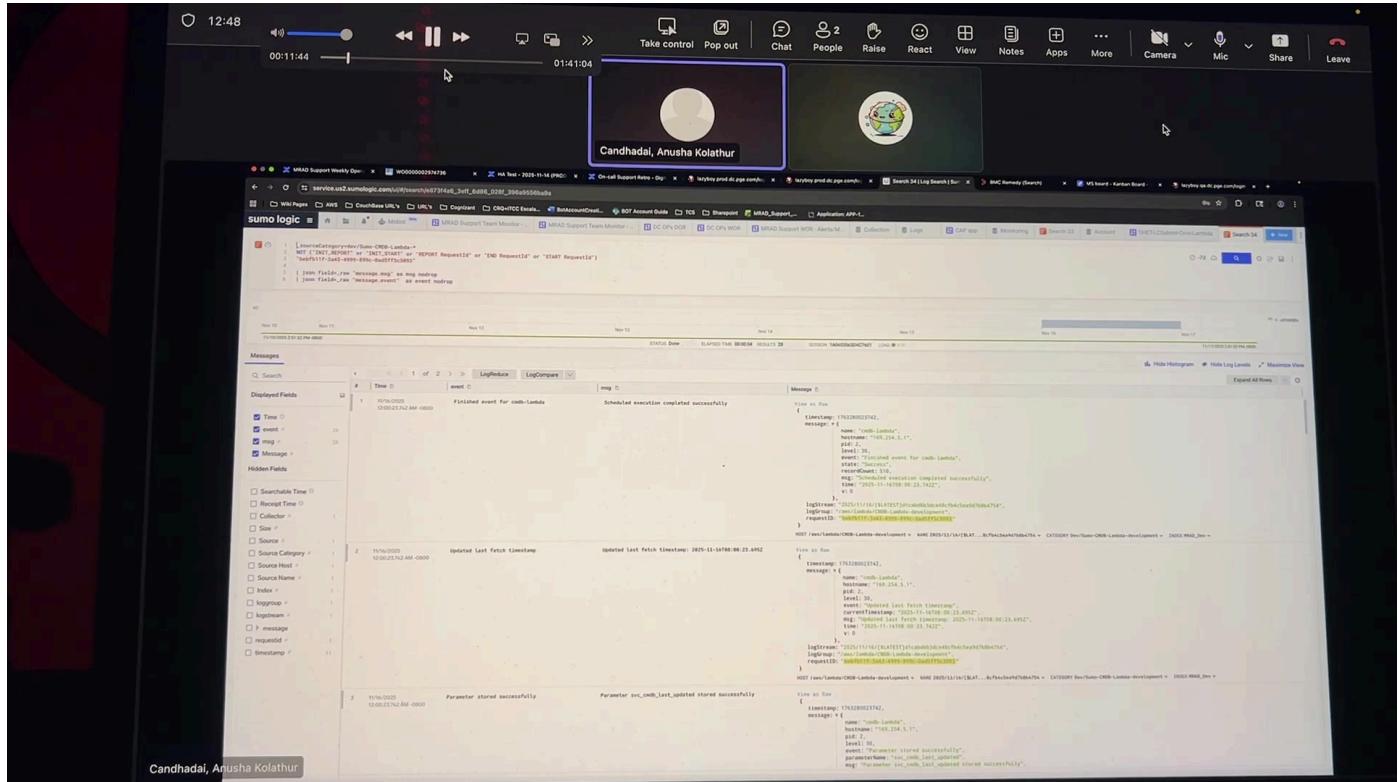
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- 1. Identify Important Fields:** The most necessary fields for monitoring flow are **event** and **message**. [106]
- 2. Information Provided:** These two fields provide all necessary information about the lambda's flow steps. [107]
- 3. Parsing Selected Key:** Use the "click and parse selected key" function on a field like **event**. [108]
- 4. Raw Parsing Method:** Raw parsing involves clicking "view as raw" and then using "extract value" for specific patterns. [109]
- 5. Parsing Event and Message:** Parse both the **event** field and the **message** field separately. [114]
- 6. Raw Log Parsing Output:** Clicking submit performs raw log parsing based on the specific pattern. [116]
- 7. Raw Parsing Applicability:** This raw parsing method is generally used for sync gateway logs, not this JSON-configured log. [118]



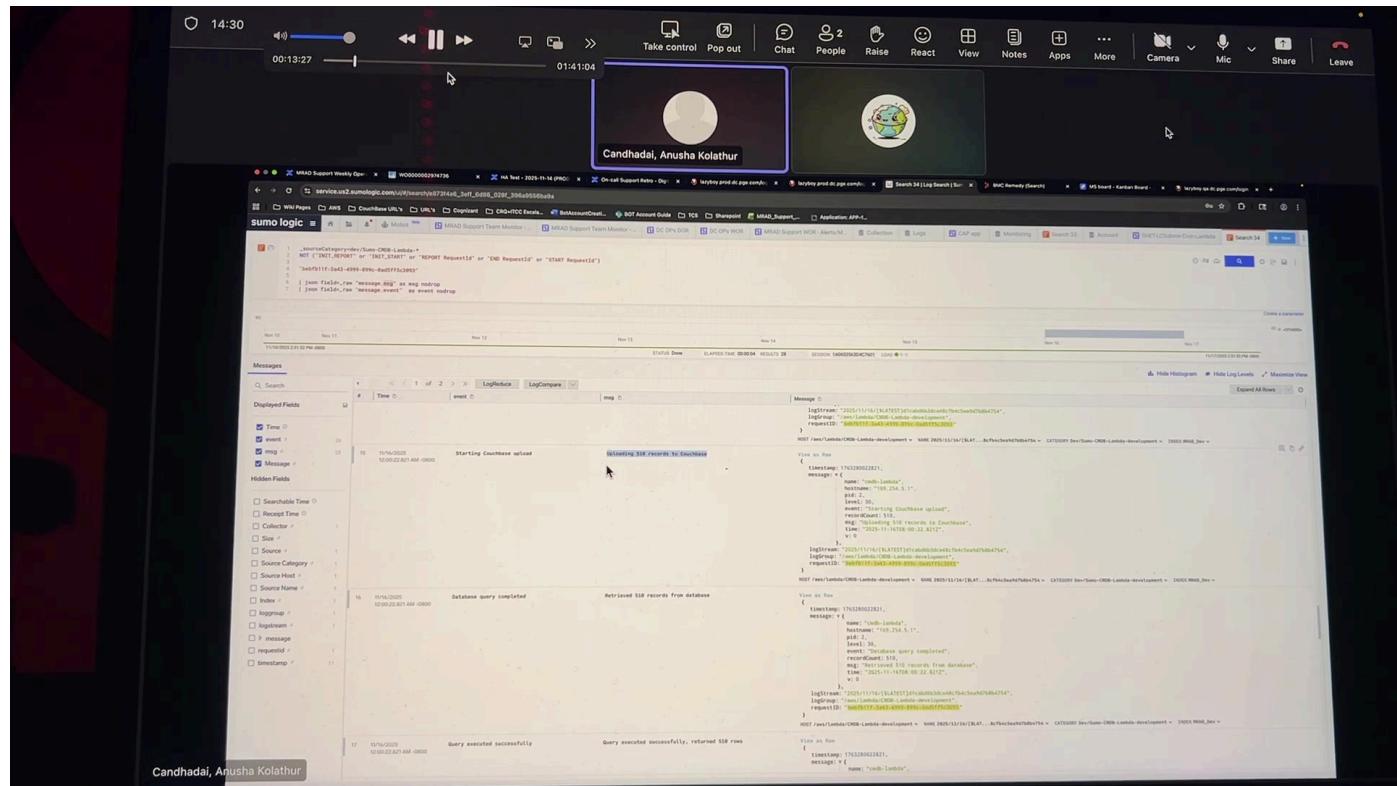
- 1. Raw Log Format Definition:** Raw log parsing means making logs available in a raw format (`_raw`) for parsing. [122]
- 2. Current Log Format:** This specific service's logs are *beautifully configured as JSON*. [123]
- 3. JSON Parsing Preferred:** Therefore, JSON parsing will be used instead of the raw parsing method shown. [123]



- 1. Reiterate Filtering:** Filter out logs that are not necessary to see. [126]
- 2. Use "Not" Filter:** Place "not" in front of patterns to exclude them from the consumer view. [128]
- 3. Query by Document ID:** If available, query based on Document ID or Doc ID. [129]
- 4. Doc Type Context:** There is no mention of a new doc type for querying in this log set. [131]
- 5. Focus on Available Info:** The current focus is figuring out what to do with the logs available for this Lambda. [136]
- 6. Main Informative Fields:** The two main events providing initial information are **event** and **message**. [137]
- 7. Message Field Purpose:** The message field explains the event if the event name alone is unclear. [140]
- 8. Contextual Understanding:** The message provides context, like explaining that "starting Couchbase upload" means uploading specific records. [144]
- 9. Initial Level Analysis:** At an initial level, both event and message fields are parsed for full context. [148]

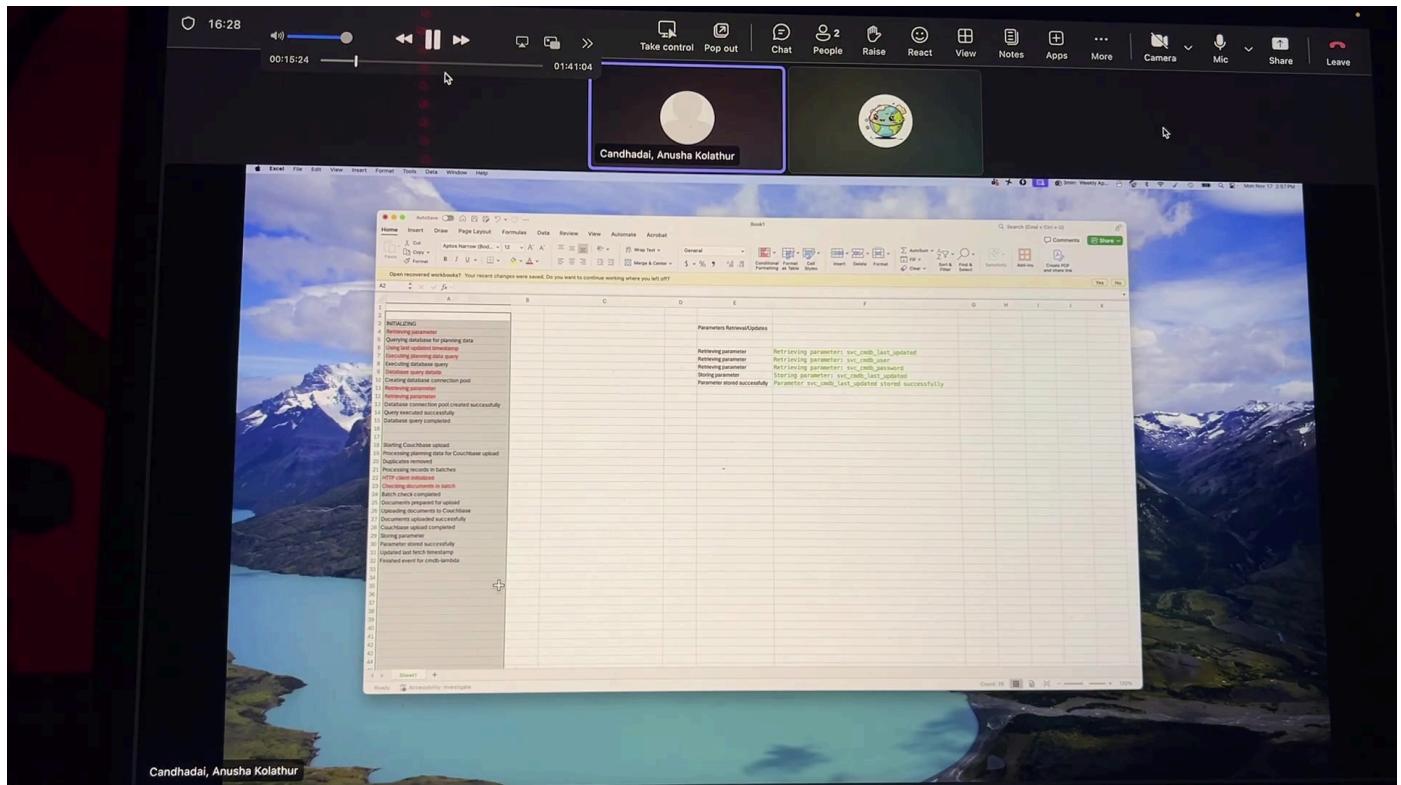
3. Categorizing and Selecting Events for Dashboard Panels [149]

00:13:18 (8 min)



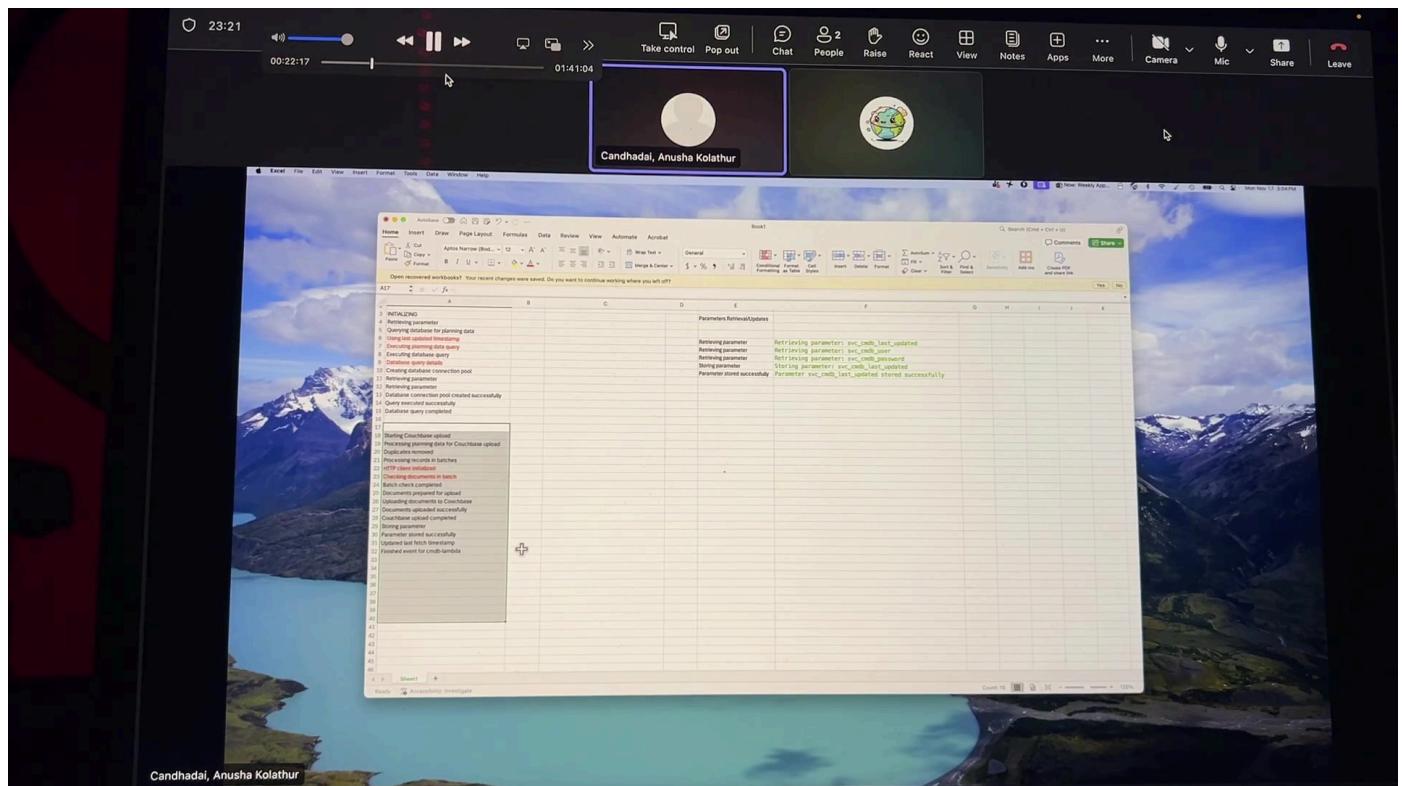
- 1. Personal Approach:** The speaker's practice is to put all events into a sheet for easier review. [150]
- 2. Two Categories:** Events are split into two categories: **database side** and **Couchbase side**. [152]
- 3. Visualization Comfort:** This method is preferred over scrolling up and down in Sumo for a whole picture. [154]
- 4. Event Source:** All listed items (initializing, retrieving parameters) are derived from the **event** field in Sumo. [158]
- 5. Separation Rationale:** The lambda handles two tasks concurrently: fetching from the database and uploading to Couchbase. [174]
- 6. Sorting Purpose:** The separation allows for potentially creating separate panels for the database and Couchbase work. [179]
- 7. Event Importance for Monitoring:** The **event** field is crucial because panels are framed around it. [181]

- 8. Initial Visualization:** The first step is visualizing *all* events without exclusions to decide what to keep. [277]



- 1. Dashboard Goal:** A dashboard must allow quick assessment (in one minute) of whether the service is good or not. [183]
- 2. Exclusion Necessity:** Logging all 29 events would make the panel look clumsy, requiring filtering. [185]
- 3. Initializing:** **Keep** this event; it confirms the lambda has started. [186]
- 4. Retrieving Parameter (Date):** **Keep** this; main values are stored in parameters. [188]
- 5. Querying Database for Planning Data:** **Keep** this; it shows the query building process has started. [190]
- 6. Using Last Updated Timestamp:** **Remove** this; intricate details are not needed on the panel. [193]
- 7. Executing Planning Data Query:** **Remove** this; it shows the query and modified date, which is not panel-worthy. [196]
- 8. Executing Database Query:** **Keep** this; it makes sense when matched with the successful execution log. [209]

9. **Database Query Details:** Ignore this; the query details are not needed on the panel. [212]
10. **Creating Database Connection Pool:** Keep this; establishing the connection is a very important event to show. [215]
11. **Retrieving Parameter (Username/Password):** Keep this; these are credentials fetched from the parameter store. [219]
12. **Database Pool Creation Successful:** Keep this; it confirms the connection was successful. [220]
13. **Query Executed Successfully:** Keep this; it confirms database query execution success. [222]
14. **Database Query Completed:** Keep this, although it is similar to the previous success log. [225]
15. **Database Section Conclusion:** The database part concludes after "database query completed." [229]

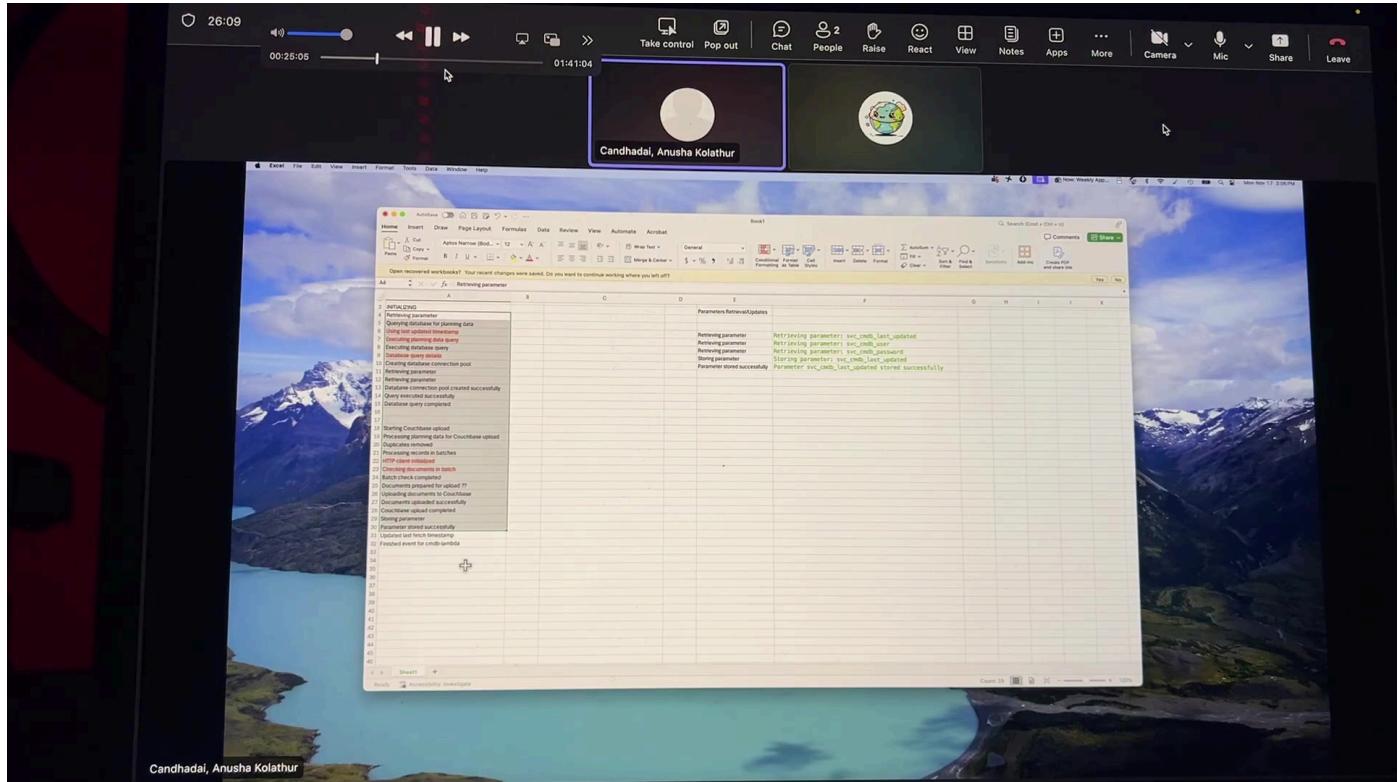


1. **Starting Couchbase Upload:** Keep this event as it marks the start of the upload phase. [279]

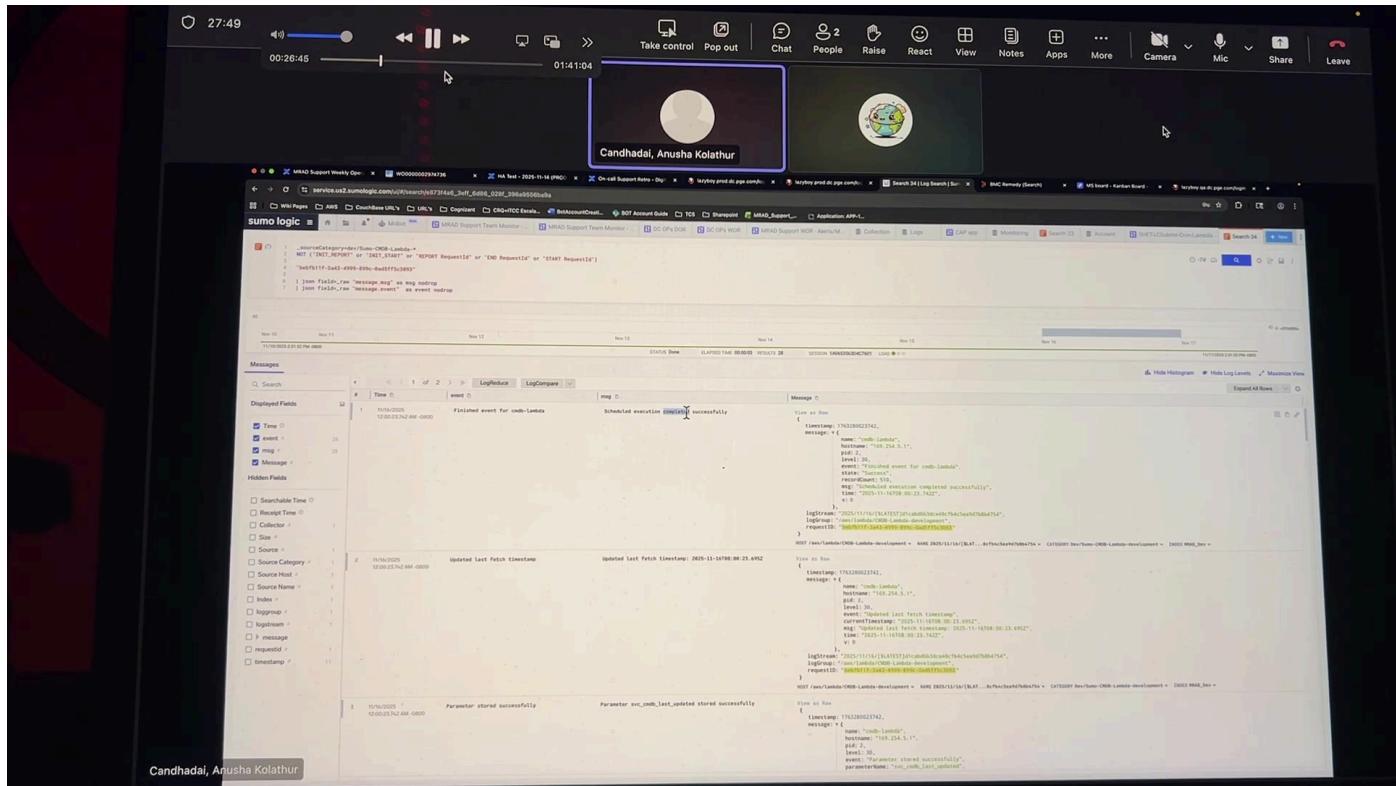
2. **Processing Planning Data:** **Keep** this; it shows checking how many records have come in. [281]
3. **Duplicates Removed:** **Keep** this; duplicate removal is a necessary step. [284]
4. **Processing Records in Batches:** **Keep** this; it reminds that processing uses 500 records per batch. [287]
5. **HTTP Client Initialized:** **Ignore** this; it relates to the backend call and is unnecessary. [290]
6. **Checking Documents in Batch:** **Ignore** this; it is an extra log showing the count (206 documents) already known. [295]
7. **Batch Check Completed:** **Keep** this; it confirms 204 existing and 2 new records were found. [300]
8. **Documents Prepared/Uploading:** **Keep** these events as they are very important. [302]
9. **New/Updated Doc Counts:** Logs show 2 new docs and 204 updated docs. [305]
10. **Uploading/Documents Uploaded Successfully:** **Keep** these logs confirming the upload action. [310]
11. **Couchbase Upload Successful:** **Keep** this final wrapper log for the upload phase. [314]
12. **Storing Parameter Successful:** **Keep** this; it confirms the last fetch timestamp was updated successfully. [318]
13. **Finished Event for CMDB Lambda:** This is the final wrapper event. [325]
14. **Most Important Event:** Ideally, **scheduled execution completed successfully with record count state success** is the only event that matters. [329]
15. **Exclusion Summary:** Events marked in red during analysis are excluded from the primary monitoring panel. [334]

4. Designing the Final Monitoring Dashboard Panel [338]

00:24:57 (5 min)



- 1. Visualization Goal:** Decide how the dashboard should present the information. [338]
- 2. Two Dashboard Approaches:** Dashboards can show every detail (success/fail) or summarize the core function. [339]
- 3. Lambda Core Function:** This lambda fetches data from the database and updates Couchbase. [341]
- 4. Minimalist Success View:** The job is done if we show only the **event finished** log as successful, including the record count. [344]
- 5. Run Frequency Consideration:** Since it runs only once a day for now, a simple success indicator is sufficient. [346]
- 6. Internal Retries:** Internal retries for failures (like 404s) are handled by the lambda itself and are not the focus here. [349]
- 7. Sufficient Monitoring:** Showing only whether the Couchbase update was successful is enough. [354]



1. **Start Querying:** Begin writing queries to form the panel for the dashboard. [356]
2. **Focus Event:** Start by querying only for the **finished event for CMDB Lambda**. [358]
3. **Handling Failure Message:** The "finished" part cannot be used yet, as failure logging format is unknown. [363]
4. **Selected Fields for Panel:** Use the **event** field, the **message** field, and the **record count**. [364]
5. **Formatting the Count:** The count field will be renamed for better display (e.g., **_count** becomes a descriptive name). [366]
6. **Display Format:** Display the results on a daily basis using a specific date format. [368]
7. **Date Formatting:** The required date format is **MMDD** (Month/Day). [377]
8. **Example Successful Run:** On 11/16, the event was successful, processing around **510 records**. [380]
9. **Daily Status Check:** This view allows quick confirmation if the CMDB Lambda ran successfully today. [381]
10. **Viewing Multiple Runs:** Filtering for seven days shows multiple runs, including successful runs with **zero records to process**. [384]

11. Final Presentation: The final step is formatting this data to look clean on the dashboard.
[389]