

Sprint Backlog Grooming Meeting Minutes #4

Attendees: Deryn Hurst, Myckheal Hosang, Tuntufye Mwakalasya, Maksim Kharutski, Nicholas Merjech

Start time: 8:00 PM

End time: 9:00 PM

The following user stories were created/discussed/refined/prioritized.

- All user stories were created and discussed

The user stories below are in progress:

- Cross-Dialect Validation: As a developer, I want to run the integrity pipeline against all 5 supported databases (PostgreSQL, MySQL, MongoDB, Snowflake, and Cassandra) to ensure the Strategy Pattern abstraction handles each dialect's unique drivers without a crash.
- Chaos Accuracy Test: As a QA engineer, I want to verify that the `5_verify_integrity` task consistently triggers a `ValueError` when the `sabotage_backup` task is active, ensuring no false positives during a corruption event.
- Metric Precision: As a performance lead, I want to compare the dashboard's "Time-to-Restore" metrics against actual container logs to validate that our telemetry accurately reflects system latency.
- Resource Leak Check: As a platform engineer, I want to monitor the Airflow worker's memory usage during a "Deep Scan" of large datasets to ensure the Lazy-Loading and connection cleanup logic prevents Out-Of-Memory (OOM) failures.
- Schema-less Consistency: As a DBA, I want to test the MongoDB connector with documents containing randomized field orders to confirm that the Normalization Engine produces a deterministic hash regardless of BSON key sequences.

The user story below is complete:

- User Story #1: As a system engineer, I want the DAG to automatically restore a database snapshot to a sandbox environment and run a "row-count" check so I can verify data integrity.
- User Story #3: As a developer, I want to receive a Slack notification or Webhook trigger immediately if a verification step fails so I can address infrastructure drift in real-time
- User Story #2: I want a task that validates VPC peering and Security Group rules in the recovery region so I can ensure services can talk to each other after a failover
- User Story #4: I want the results of every verification drill to be logged into a persistent dashboard so we have a historical record of our Recovery Time Objectives (RTO).

- User Story #5: I want to enable multi-regional DB Support for our database replicas providing good fallback for our customers