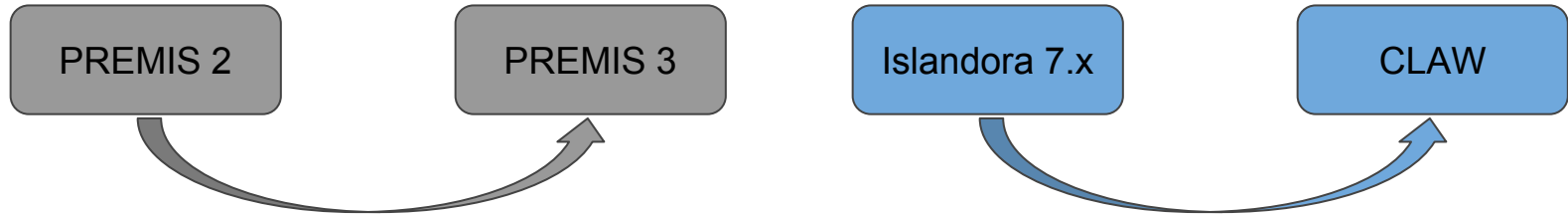


Concurrent migration from PREMIS 2 to PREMIS 3 and Islandora to CLAW

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The Problems

- Retaining PREMIS fixity event data across platform migrations is essential for integral chain of preservation
- Islandora 7.x generates PREMIS v2 fixity check data; next generation Islandora (CLAW) will provide PREMIS v3

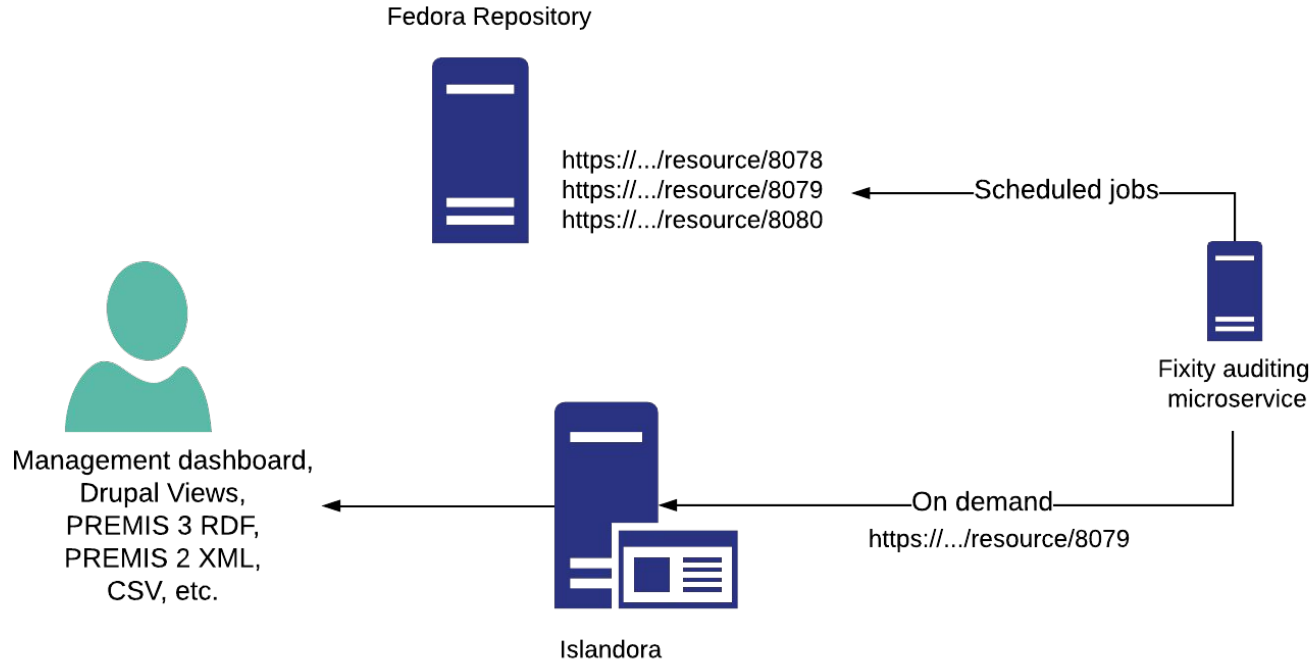


- Fedora Spec-compliant repositories do not validate fixity, they only provide a checksum

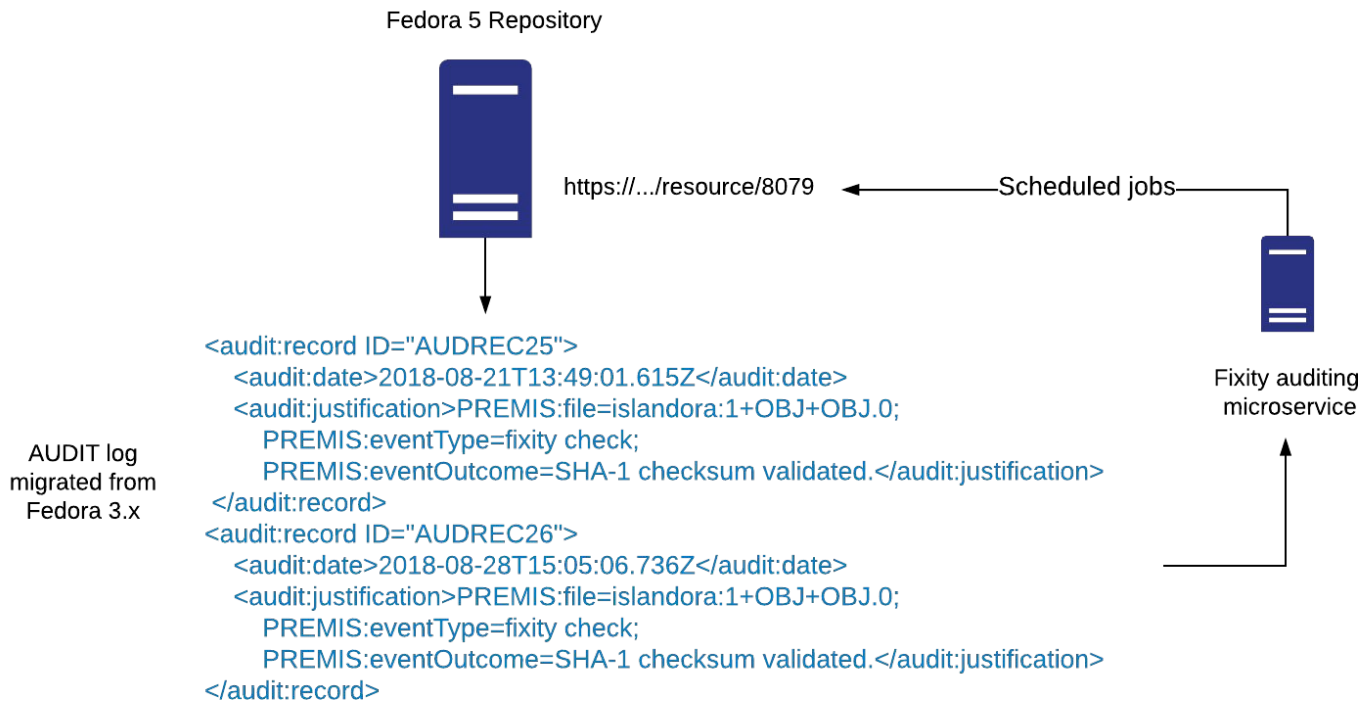
Solutions

1. Develop an external fixity auditing microservice for Fedora Spec-compliant repositories
2. Migrate Fedora 3.x AUDIT data to this service
3. Integrate migrated data with production data
4. Store fixity event data in non-serialized form
5. Serialize into PREMIS v2, PREMIS v3, etc. on demand

The fixity microservice (Riprap)



Migrating legacy fixity events



Consuming PREMIS v3 fixity check event data

- Fixity checking events in PREMIS v2 and v3 are semantically equivalent
- Storing new and migrated fixity checking events in a serialization-agnostic way (e.g., in a relational database) will allow us to serialize the events in:
 - PREMIS v2 XML
 - PREMIS v3 XML
 - PREMIS v3 RDF
 - Etc.
- We will also be able to use this data more easily in management reports, preservation workflows, etc.