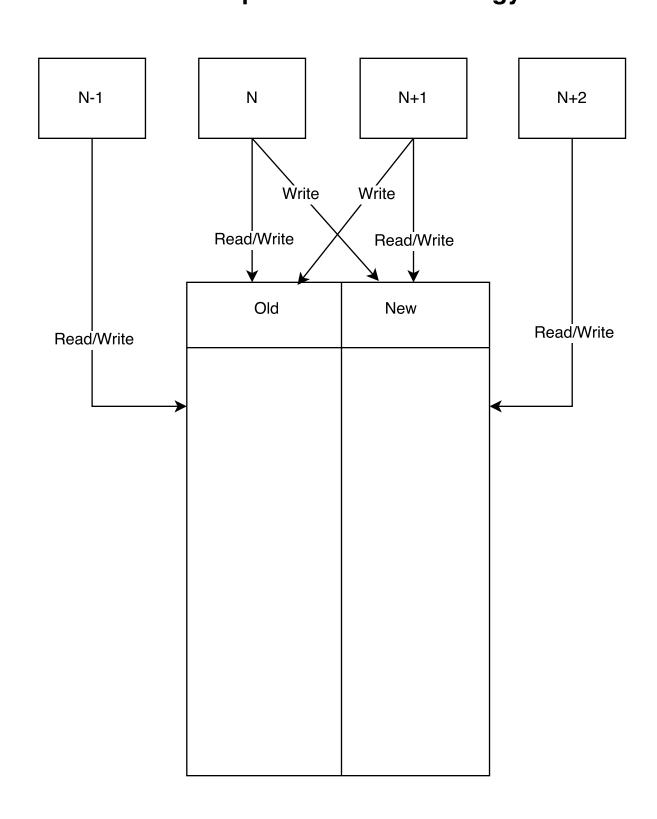
Database Strategy for Glance Rolling Upgrades

- Old and new services co-exist
- Changes that could have an impact:
 - API changes
 - Database changes (we'll focus on this primarily today)
 - RPC changes
- Two existing approaches:
 - Nova's Oslo. Versioned Objects approach
 - Very heavy for Glance
 - Cinder's expand/contract approach over multiple cycles
 - A bit cumbersome and delayed impact of changes
- Goal: Do it in one cycle
- Solution: Expand/Contract style migrations with triggers for mediation
 - Separate schema and data migrations
 - Separate additive and non-additive migrations
 - Apply additive changes while the old services are still running (expand)
 - Add triggers to keep the data in sync between old and new columns
 - Migrate data from old to new column
 - Deploy new services in a rolling fashion
 - Apply non-additive changes and remove triggers (contract)

Cinder's Expand/Contract Strategy



Glance Rolling Upgrades with Triggers

