Multigres



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February 7, 2026

Build in a weekend. Scale to millions.

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Founding Engineer - Multigres

@GuptaManan100

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What are we building

- It’s sharding. But it’s more. HA, connection pooling, migrations, etc.
- For too long, we’ve had to mix and match different solutions
- Build a single ecosystem.

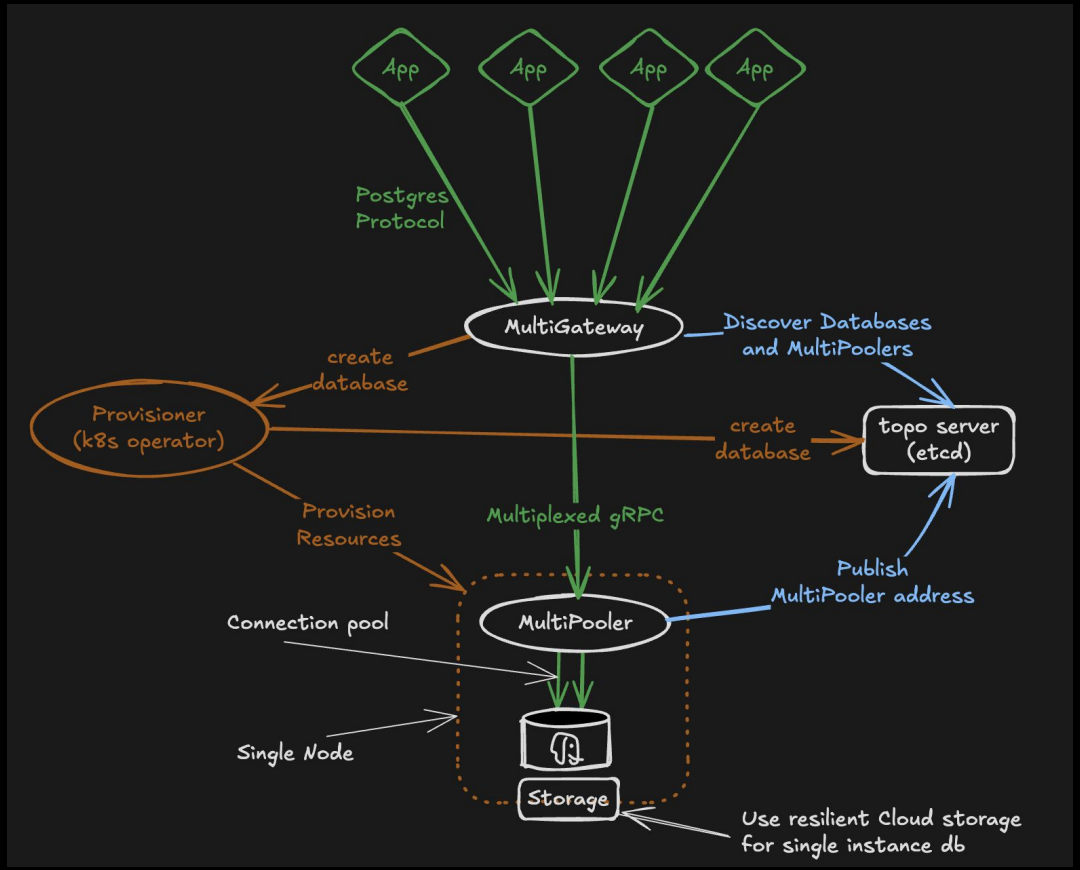
How we think

- Don’t accept accepted problems
- Everything is connected: Connect them well
- Once you use Multigres, you shouldn’t want to go back

How we design

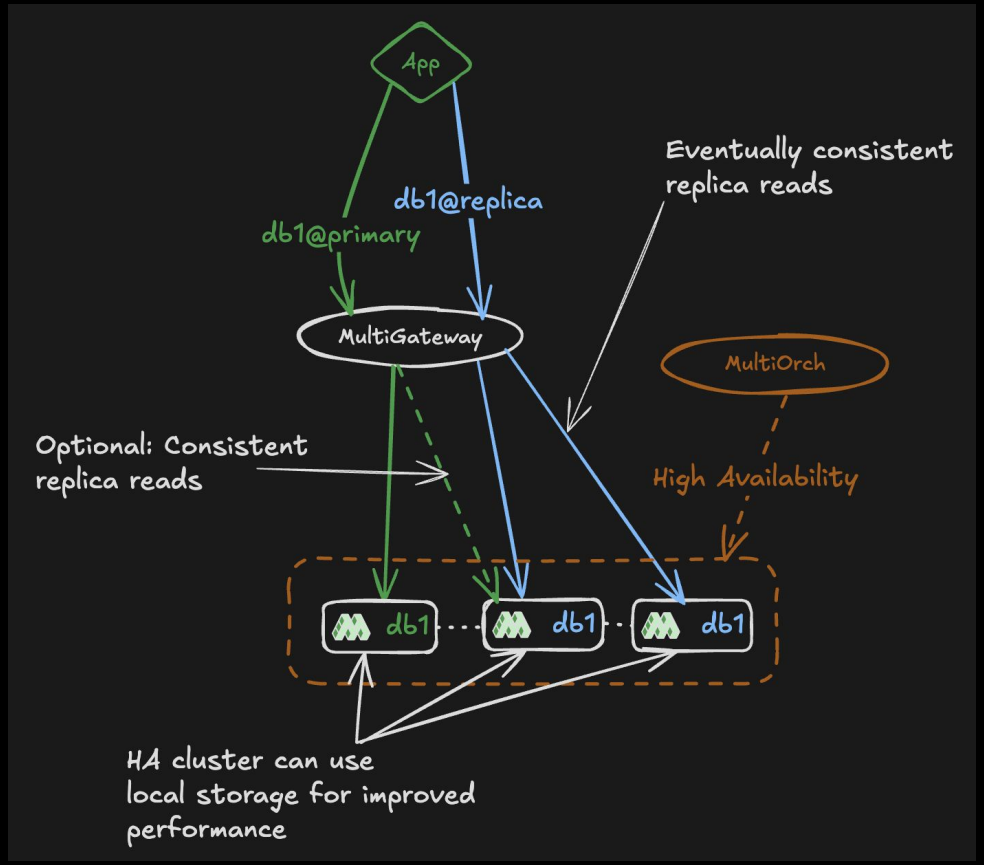
- Simplicity: Limit moving parts, limit surface area
- Survivability: No single point of failure
- Automation: No humans

Architecture



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Architecture (contd)



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Query Serving

Parser



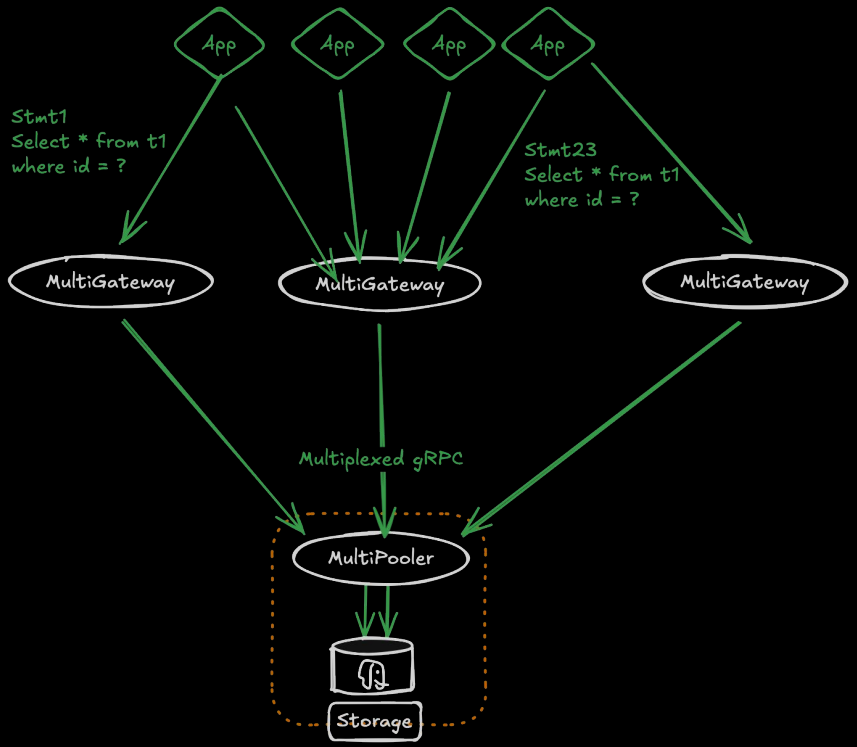
- Why do we need the parser?
- Helps us understand the queries

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Prepared Statement Consolidation

- Many connections to Multigateway
- Each creating a prepared statement!

Prepared Statement Consolidation



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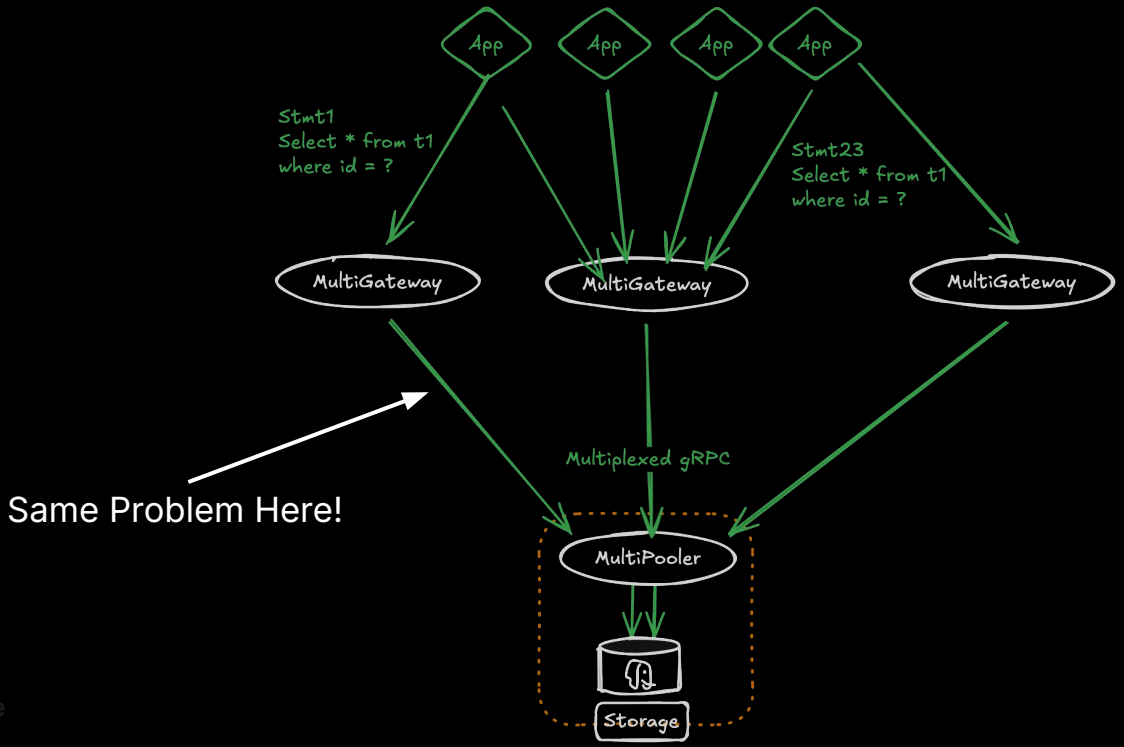
Prepared Statement Consolidation

Prepared Statements

Name	Query	Usage Count
stmt0	`SELECT id, username, email, created_at FROM users WHERE id = $1`	8082
stmt1	`INSERT INTO users (username, email) VALUES ($1, $2) RETURNING id`	1296

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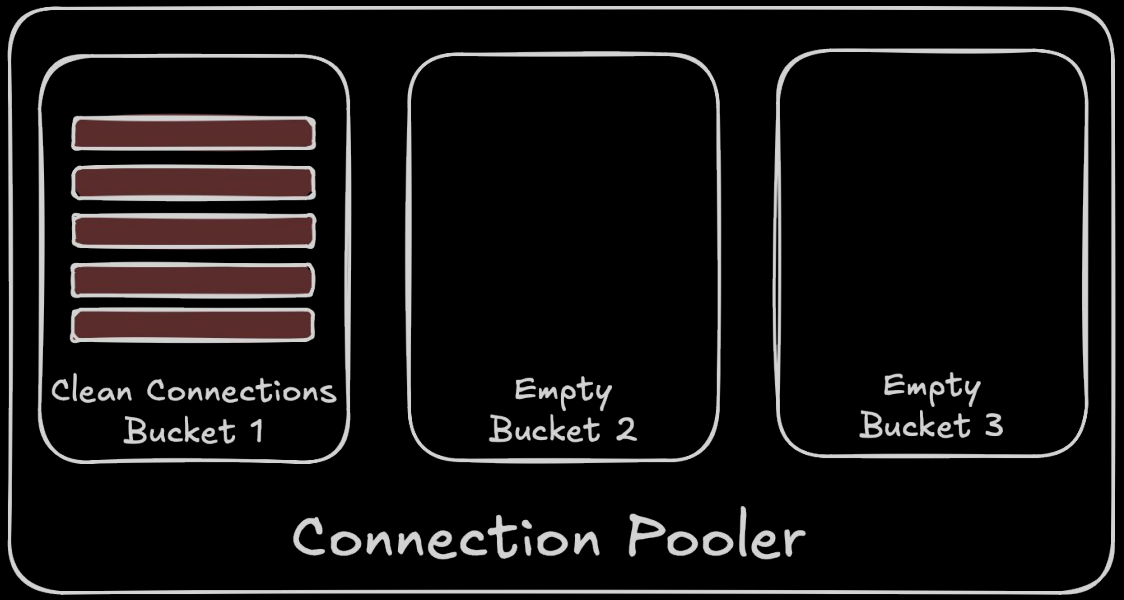
Prepared Statement Consolidation



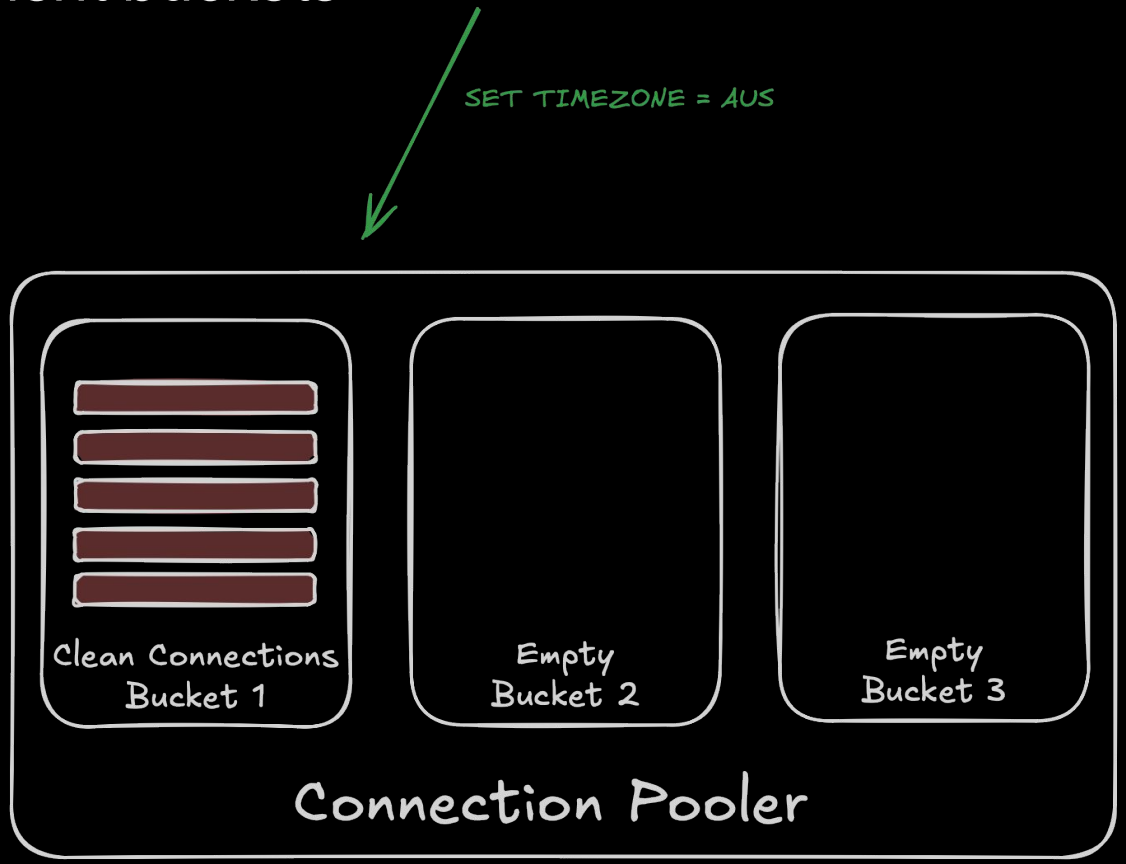
Other Cool Features

- Do not require choosing between statement, transaction, and session mode
- Prepared statements in the simple protocol also work
- SET Statements are tracked and work through the pooler

SET Statement buckets

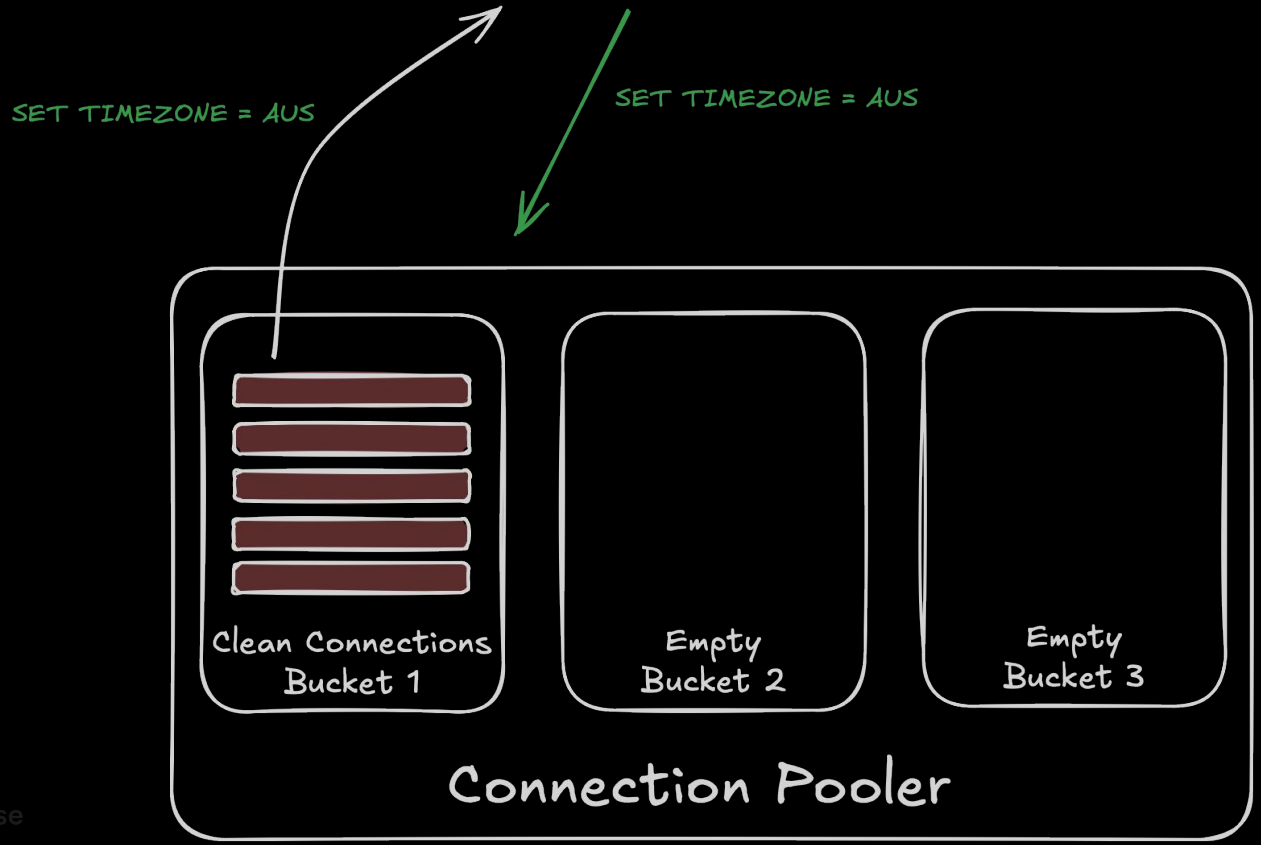


SET Statement buckets



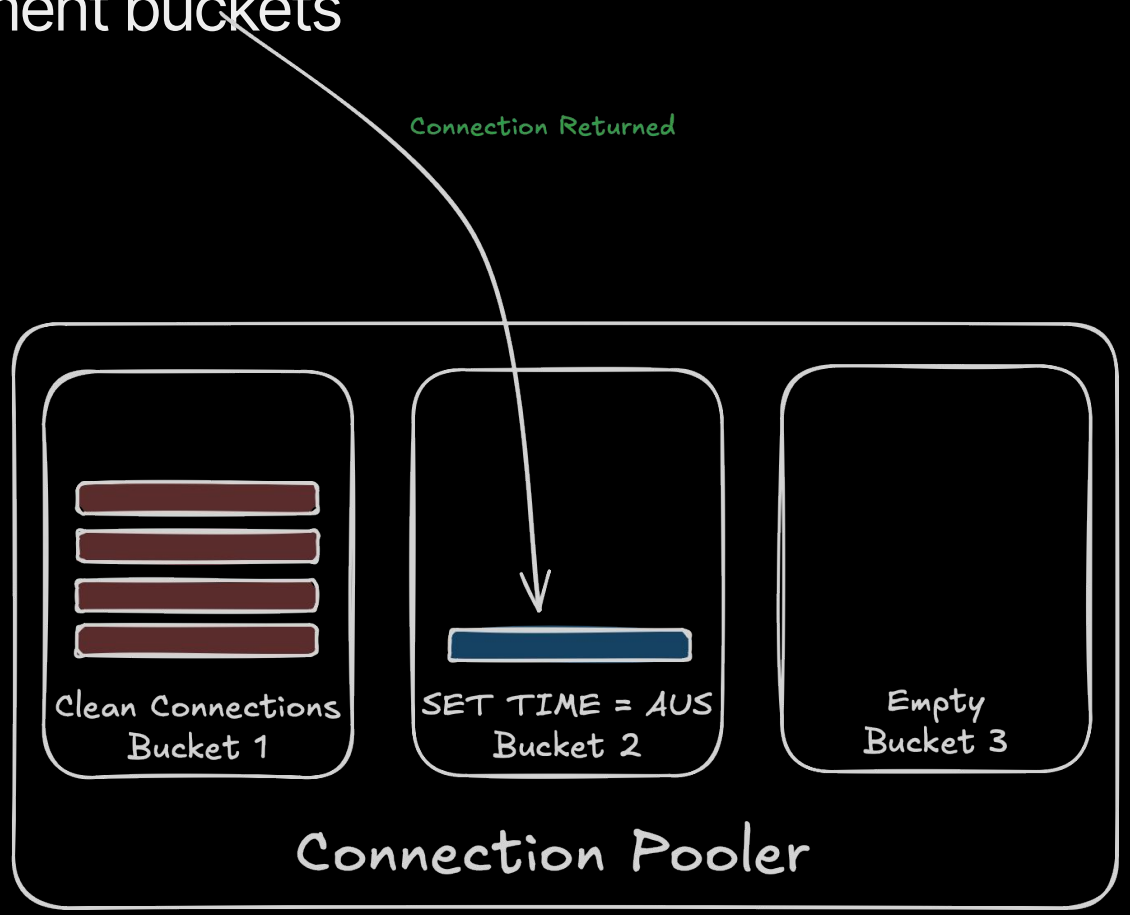
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SET Statement buckets



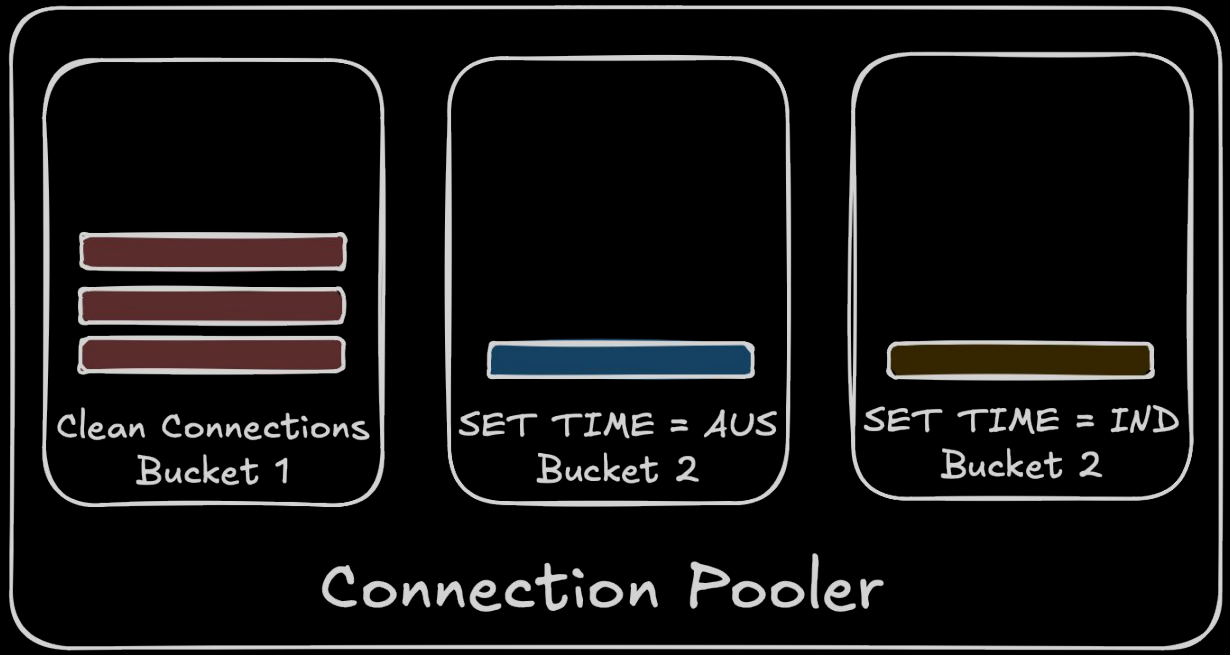
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SET Statement buckets

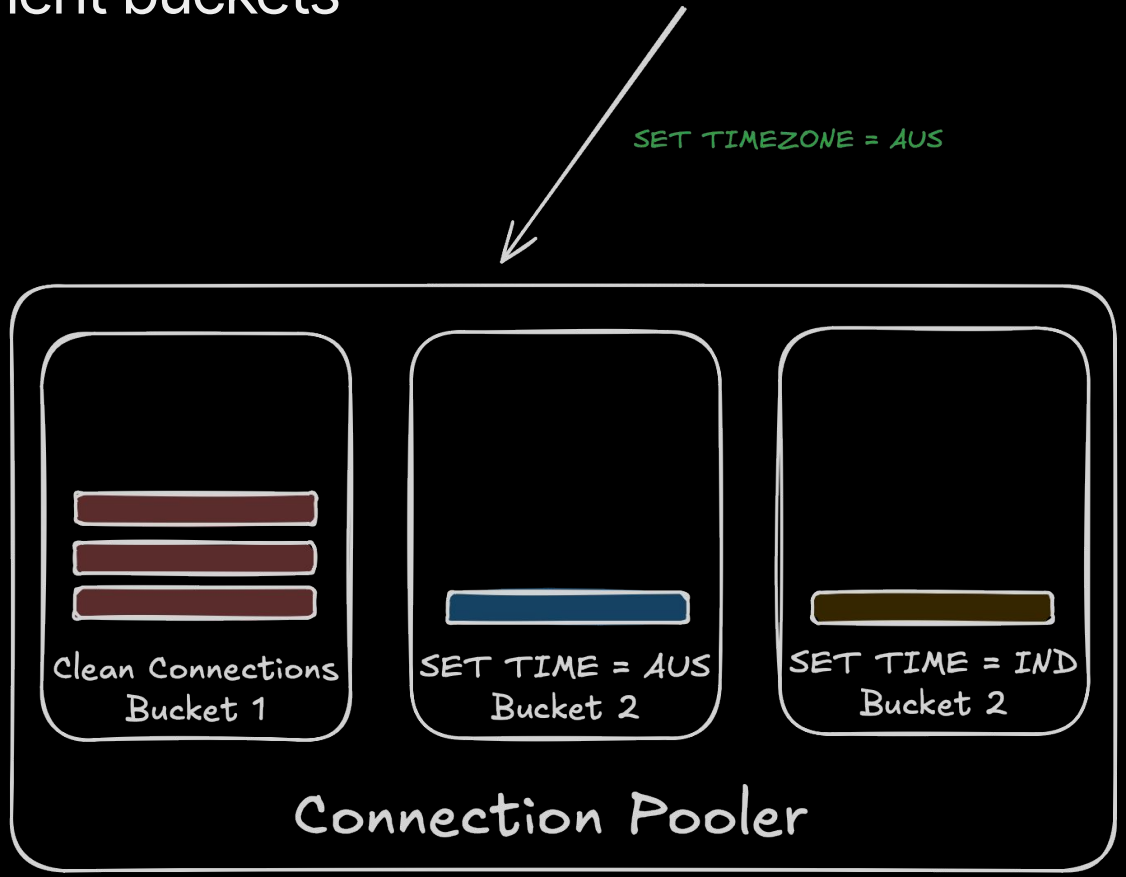


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SET Statement buckets

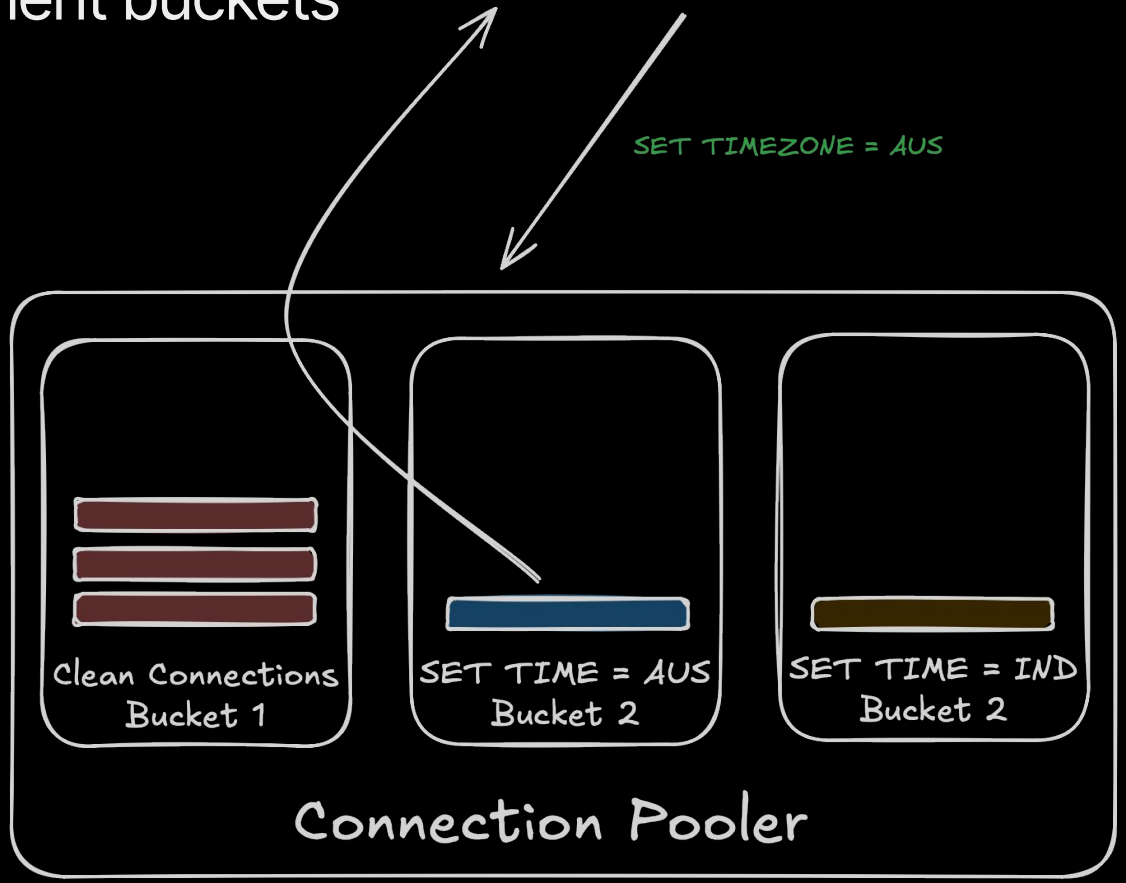


SET Statement buckets



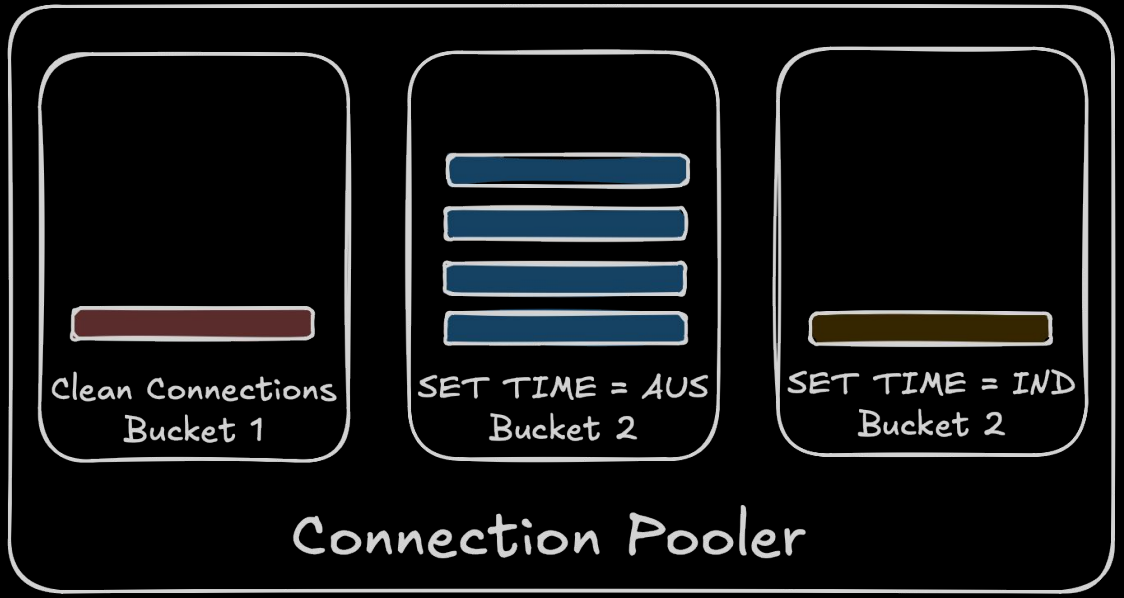
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SET Statement buckets

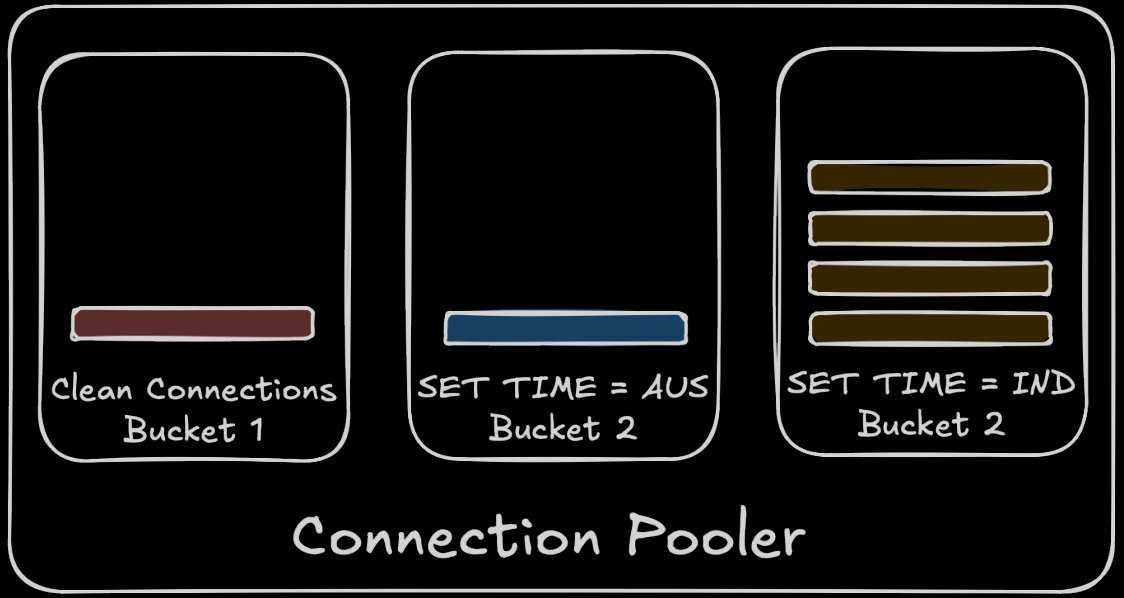


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SET Statement buckets



SET Statement buckets



Q&A