# PostgreSQL DR Server Configuration Recommendations

#### **Scenario Summary**

Primary Server: 64 GB RAM DR Server: 15 GB RAM

Issue: Using the same PostgreSQL configuration on both servers leads to performance and

stability issues on the DR server due to limited memory.

### What Happens If You Don't Tune PostgreSQL on DR?

- 1. 1. PostgreSQL May Fail to Start
- Memory-heavy parameters like shared\_buffers may prevent PostgreSQL from starting.
- 2. 2. OOM (Out of Memory) Kills
  - Linux OOM Killer may terminate PostgreSQL when system memory is exhausted.
- 3. 3. Swap Usage & Performance Degradation
  - Excessive swapping slows down the system significantly.

## Recommended PostgreSQL Memory Parameters for DR Server (15 GB RAM)

Parameter	Primary (64 GB RAM)	Recommended for DR (15 GB RAM)
shared_buffers	16 GB	3-4 GB
work_mem	16 MB	4-8 MB
maintenance_work_mem	2 GB	256-512 MB
effective_cache_size	48 GB	8-10 GB
wal_buffers	-1 (default)	Leave default
max_connections	100+	Lower if not needed

### **Additional Tips**

- Create a DR-specific postgresql.conf file with tuned values.
- Disable unneeded background workers/extensions on the DR server.
- Test configuration using: postgres -D /path/to/data\_directory