



# 15. 2PC

- 前面的回顾：Tools to achieve before-or-after (P4)

**WAL + 2PL + OCC is insufficient for all the TXs ( P28-)**

- Nested transactions (P30-31)
- Multi-site transaction (P39-40)

## **Two-phase Commit (P41)**

- Two-phase commit in nested transaction (P42-43)
- **Logging rule of WAL under 2PC (P47)**
- Recovery rules under 2PC (P48)
- Lock releases in nested transaction (P50-51)
- Short summary: 2PC for nested transaction (P52)

## **2PC for multi-site TX**

- Deal with the Network (P56-58)
- Multiple-site Atomicity (P59)
- 可能发生的各种情况的反应 (P60-66, P68-70)
- Worker Failure During Commit (P67)
- Summary of 2-phase Commit (P71)

**2PC only guarantees consistency (next lec P6)**