

# Recovery State

DEFINITION

The complete set of state — beyond data — that must exist for a recovered workload to function; the true recovery target.

FRAMEWORK FLOW

|                                                                                                                                                    |                                                                                                                                                                                            |                                                                                                                                                                                                                                                                    |                                                                                                                                                                                 |
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| <div>01</div> <div>The Condition</div> <div>Replication produces data state — a current copy, continuously proven, automatically maintained.</div> | <div>02</div> <div>The Boundary</div> <div>Recovery state is a different and larger target — data, dependencies, orchestration, and operational authority, simultaneously available.</div> | <div>03</div> <div>Failure State</div> <div>Every failure in the cluster is a specific way data state and recovery state diverge — currency without a clean point, components current but collectively invalid, data recovered without its dependency graph.</div> | <div>04</div> <div>Consequence</div> <div>Programs that measure replication success and infer recovery success discover the gap only when recovery is attempted for real.</div> |
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Failure State: Data State Mistaken for Recovery State



THE DIAGNOSTIC SIGNAL

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| <div>DATA STATE VS. RECOVERY STATE</div> <div>A current copy is data state; a running, authenticated, consistent service is recovery state — the second requires far more than the first.</div> | <div>SIMULTANEITY TEST</div> <div>Recovery state requires data, dependencies, orchestration, and authority to be available at the same time, not eventually.</div>                                                                   |
| <div>TRIGGER CONDITION</div> <div>The gap is exposed the moment recovery is attempted — the only moment recovery state is actually tested.</div>                                                | <div>REMEDIATION SHAPE</div> <div>Design and rehearse for recovery state directly — point-in-time integrity, consistency groups, dependency orchestration, a measured RTO — rather than inferring it from replication metrics.</div> |

ARCHITECTURAL RELATIONSHIPS

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| <div>#99</div> <div>The Replication–Recovery Gap</div> <div>RELATEDMODERATE</div> <div>Recovery State is the target the Replication-Recovery Gap fails to close.</div>            | <div>#100</div> <div>Corruption Propagation Window</div> <div>RELATEDMODERATE</div> <div>Corruption propagation is a threat to reaching Recovery State.</div> |
| <div>#101</div> <div>Dependency Recovery Blindness</div> <div>RELATEDMODERATE</div> <div>Dependency Recovery Blindness is precisely what keeps Recovery State out of reach.</div> |                                                                                                                                                               |

ANCHOR /cross-region-replication-resilience/

FRAMEWORK HOME

The condition in which data, dependencies, orchestration, and operational authority are simultaneously available to restore service — what replication creates data state instead of.

"Replication creates data state. Recovery requires recovery state. Every failure is a specific way the two diverge."