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Deployment topology

Deployment topology

ZephyrCart runs in four regions:

Region key	Cloud + AZ count	Latency to next region
eu-frankfurt	GCP europe-west3, 3 zones	13 ms to eu-dublin
eu-dublin	GCP europe-west1, 3 zones	13 ms to eu-frankfurt
us-east	GCP us-east4, 3 zones	79 ms to eu-dublin
ap-singapore	GCP asia-southeast1, 3 zones	168 ms to eu-frankfurt
ap-tokyo (beta)	GCP asia-northeast1, 3 zones	73 ms to ap-singapore

Within a region: full active/active across all three zones, PostgreSQL with synchronous replicas, Redis with sentinel.

Data residency

A tenant's data stays in its home region. There is no cross-region replication of customer PII or order data. Aggregated, de-identified telemetry flows to a central observability bucket in `eu-frankfurt` for the platform team — see the [Data handling policy](#) for the exact list of fields.

Region failover

There is no automated cross-region failover. If a region is unavailable, the dashboard surfaces a status page entry and storefronts in that region fail over to a degraded read-only mode (cached catalog, no new checkouts) until the region returns. This is a deliberate choice — replicating PII across regions would put us into legal regimes the company does not want to operate under.

Multi-region tenants

A small number of Enterprise customers run in two regions concurrently with their own application-layer sync. Talk to your solutions engineer; this is not a self-serve feature.