Red Bar Showcase

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These anonymized examples show how we turn promises into failing acceptance tests. Use them as inspiration for your own Clause → Control → Test bundles.

Why Red Bars Matter

- A failing test captures a promise you have not met yet. It keeps the issue visible.
- Every red bar should map to a real enforcement point (ingress, compute, data, observability, edge).
- When the control is in place, rerun the test and log the transition from red → green in your ethics debt ledger.

Example 1 — OCAP® Residency Guardrail

Clause: "Indigenous health data must remain in Canada unless explicit consent is recorded."

Enforcement point: AWS DMS replication task + Lake Formation policy.

```
def test_canada_data_residency_fails_without_consent():
    response = run_dms_replication_task(
        source="ca_patient_fact",
        target_region="us-east-1",
        consent=False,
    )
    assert response.status == "FAILED", "Replication succeeded without consent flag"
    assert "OCAPViolation" in response.error_message
```

Red bar evidence:

```
================================ FAILURES ================================
_____ test_canada_data_residency_fails_without_consent _____
AssertionError: Replication succeeded without consent flag
```

Next action: add consent check to Step Functions guard + deny policy; rerun test and log ledger entry.

Example 2 — GDPR Retention Window

Clause: "Personal data must be deleted within 30 days unless an explicit 90-day exemption applies."

Enforcement point: S3 lifecycle rule + deletion auditor Lambda.

```
def test_gdpr_retention_window():
    cutoff = datetime.utcnow() - timedelta(days=31)
    seed_backdated_object(bucket="ca-ingest-raw", older_than=cutoff)
    trigger_deletion_auditor(region="ca-central-1")
    remaining = query_s3_objects(bucket="ca-ingest-raw", older_than=cutoff)
    assert not remaining, "Objects older than 30 days still present"
```

Red bar evidence:

```
E    AssertionError: Objects older than 30 days still present
```

Next action: enable lifecycle configuration, schedule auditor, capture green-bar rerun + ledger update.

Example 3 — Empty Chair Alerting

Clause: "Community operators must receive an automated alert when data sharing agreements are breached."

Enforcement point: Observability pipeline (CloudWatch metric + SNS topic).

```
def test_empty_chair_alerts_on_cross_border_copy():
    with pytest.raises(AlertMissingError) as excinfo:
        simulate_cross_border_copy(user="community_clinic", data_class="restricted")
    assert "SNS alert not published" in str(excinfo.value)
```

Red bar evidence:

```
E    AlertMissingError: SNS alert not published within 60 seconds
```

Next action: wire CloudWatch alarm to SNS topic, rerun, and capture the alert ID in the ledger.

Ledger Tie-In

- Record each red bar in your ethics debt ledger with owner, next action, and timestamp.
- When the test turns green, update the ledger (status, link to evidence, what changed).
- Keep at least one meaningful red bar in progress to show continuous improvement.

Share Your Own

If your studio team produces a compelling red bar, anonymize identifiers and post it in the Discord `#red-bars` channel. TAs will select examples for future showcases.