

Test Set 3: Exception Handling

Test 3.1 Out-of-Order Startup Sequence

Test Description: The system should gracefully handle cases where components are started out of order.

Test 3.2 Test Death of Naming Service

Test Description: The naming service will live on a sacred machine, but the servers should gracefully handle the case where the naming service becomes unavailable.

Test Procedure:

1. Start up all components normally.
2. Kill the naming service.
3. Verify
 - a. The Servers catch the exception when trying to contact the naming service.
 - b. The replication manager catches the exception when trying to contact the naming service.

Test 3.3: Test Death of Database

Test Description: The database server will live on a sacred machine, but the servers should gracefully handle the case where the naming service becomes unavailable.

Test Procedure:

1. Start up all components normally.
2. Kill the database server
3. Verify
 - a. The Servers catch any exceptions when trying to contact the database

Test 3.4: Test Death of Replication Manager

Test Description: The replication manager will live on a sacred machine, but the servers should gracefully handle the case where the naming service becomes unavailable.

Test Procedure:

1. Start up all components normally.
2. Kill the replication manager.
3. Kill the primary server.
4. Verify
 - a. The client handles any exceptions when trying to contact the replication manager

Out of Scope

Things we don't handle: