**Task:** Disk I/O Latency & Fault    
**Description:** Simulate slow disk I/O performance for the database.   
**Type:** IOChaos (latency & Fault)

**Description**

Simulating slow disk, I/O performance using **IOChaos (latency & fault)** involves introducing artificial delays or faults in disk read/write operations. This helps assess how a database and application handle **performance degradation** and potential **disk failures** in real-world scenarios.

For this test, we inject **disk faults** into the PostgreSQL database pod (ledger-db), forcing it to experience disk I/O errors

**Execution**

cd /root/hymavathi/ iofaults/ latestfault.yaml

./script.sh

**key Parameters Explained:**

* action: fault → Simulates an I/O failure.
* mode: one → Affects one pod randomly.
* errno: 5 → Injects **I/O error (EIO)**, making the database behave as if the disk is faulty.
* percent: 100 → Applies the fault to **all disk operations**

**Error number**

* ERRNO 2: No such file or directory
* ERRNO 5: I/O Error
* ERRNO 28: No space on device
* ERRNO 13: Permission Denied

**Expected outcome**

When you perform a transaction in your application, and it experiences latency

ERROR: could not read block 123 in file "base/16384/2605": Input/output erro**r**

**Conclusion**

* This test **validates database resilience** under disk I/O failures