Cloud Computing and Virtualization

Practical Lab 4 –High Availability

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Practical Lab 4

- Tasks for this week
  1. **PostgreSQL master / replicas configuration**
     1. Replicate the class demo by configuring two PostgreSQL servers (master/replica) using the standard pg tools and configurations
  2. **PostgreSQL + repmgr high availability cluster**
     1. Replication and failover with repmgr (3 dbs + witness node part1/part2)
        - Demo is for CentOS 7, try to replicate that in Ubuntu 22.04 or CentOS 9s (adapt the commands)
  3. High-Availability cluster with shared storage
     1. HA / Fail-over cluster with common iscsi shared storage on CentOS 7 (example)
        - In production a SAN solution (with redundancy) would hopefully be used

- Challenge
  - Explore keepalived (example) and corosync + pacemaker (example)