27.2. Log-Shipping Standby Servers

Continuous archiving can be used to create a high availability (HA) cluster configuration with one or more standby servers ready to take over operations if the primary server fails. This capability is widely referred to as warm standby or log shipping.

The primary and standby server work together to provide this capability, though the servers are only loosely coupled. The primary server operates in continuous archiving mode, while each standby server operates in continuous recovery mode, reading the WAL files from the primary. No changes to the database tables are required to enable this capability, so it offers low administration overhead compared to some other replication solutions. This configuration also has relatively low performance impact on the primary server.

27.2.1. Planning

27.2.2. Standby Server Operation

27.2.3. Preparing the Primary for Standby Servers

27.2.4. Setting Up a Standby Server

Note

27.2.5. Streaming Replication

27.2.5.1. Authentication

27.2.5.2. Monitoring

27.2.6. Replication Slots

27.2.6.1. Querying and Manipulating Replication Slots

27.2.6.2. Configuration Example

```
postgres=# SELECT * FROM pg_create_physical_replication_slot('node_a_slot');
  slot_name  | lsn
-------------+-----
 node_a_slot |

postgres=# SELECT slot_name, slot_type, active FROM pg_replication_slots;
  slot_name  | slot_type | active
-------------+-----------+--------
 node_a_slot | physical  | f
(1 row)
```

```
primary_conninfo = 'host=192.168.1.50 port=5432 user=foo password=foopass'
primary_slot_name = 'node_a_slot'
```

27.2.7. Cascading Replication

27.2.8. Synchronous Replication

27.2.8.1. Basic Configuration

27.2.8.2. Multiple Synchronous Standbys

```
synchronous_standby_names = 'FIRST 2 (s1, s2, s3)'
```

```
synchronous_standby_names = 'ANY 2 (s1, s2, s3)'
```

27.2.8.3. Planning For Performance

27.2.8.4. Planning For High Availability

27.2.9. Continuous Archiving in Standby

Submit correction

If you see anything in the documentation that is not correct, does not match your experience with the particular feature or requires further clarification, please use this form to report a documentation issue.