

# Corosync und Pacemaker

Hier werden Schnipsel gesammelt für eine Corosync + Pacemaker Anleitung.

## Corosync Konfiguration

/etc/corosync/corosync.conf

```
# Please read the openais.conf.5 manual page

totem {
    version: 2

    # How long before declaring a token lost (ms)
    token: 3000

    # How many token retransmits before forming a new configuration
    token_retransmits_before_loss_const: 10

    # How long to wait for join messages in the membership protocol (ms)
    join: 60

    # How long to wait for consensus to be achieved before starting a new round of membership
    consensus: 1200

    # Turn off the virtual synchrony filter
    vsftype: none

    # Number of messages that may be sent by one processor on receipt of the token
    max_messages: 20

    # Limit generated nodeids to 31-bits (positive signed integers)
    clear_node_high_bit: yes

    # Disable encryption
    secauth: off

    # How many threads to use for encryption/decryption
    threads: 0

    # Optionally assign a fixed node id (integer)
    nodeid: 1234

    # This specifies the mode of redundant ring, which may be none, active, or passive.
    rrp_mode: passive

    interface {

        ringnumber: 0

        member {
            memberaddr: 10.10.222.1
        }

        member {
            memberaddr: 10.10.222.2
        }

        bindnetaddr: 10.10.222.0
        mcastport: 5405
    }

    interface {

        ringnumber: 1

        member {
            memberaddr: 10.10.108.127
        }
    }
}
```

```

    }

    member {
        memberaddr: 10.10.108.128
    }

    bindnetaddr: 10.10.108.0
    mcastport: 5406
}

# Use UDP unicast
transport: udpu
}

amf {
    mode: disabled
}

service {
    # Load the Pacemaker Cluster Resource Manager
    ver: 0
    name: pacemaker
}

aisexec {
    user: root
    group: root
}

logging {
    fileline: off
    to_stderr: yes
    to_logfile: yes
    logfile: /var/log/corosync/corosync.log
    to_syslog: no
    syslog_facility: daemon
    debug: off
    timestamp: on
    logger_subsys {
        subsys: AMF
        debug: off
        tags: enter|leave|trace1|trace2|trace3|trace4|trace6
    }
}
}

```

## MySQL-HA mit DRBD

```

node dbserver1-ha1.meinserver.de
node dbserver1-ha2.meinserver.de
primitive drbd_mysql ocf:linbit:drbd \
    params drbd_resource="mysql" \
    op monitor interval="15s" role="Master" \
    op monitor interval="17s" role="Slave"
primitive fs_mysql ocf:heartbeat:Filesystem \
    params device="/dev/drbd/by-res/mysql" directory="/var/lib/mysql" fstype="xfs"
primitive ip_memcached ocf:heartbeat:IPaddr2 \
    params ip="10.10.108.136" nic="eth1" \
    op monitor interval="10s" \
    meta is-managed="true"
primitive ip_mysql ocf:heartbeat:IPaddr2 \
    params ip="10.10.108.129" nic="eth1" \
    op monitor interval="10s"
primitive memcached lsb:memcached \
    meta is-managed="true" \
    op monitor on-fail="restart" interval="20s" \
    op start interval="0" timeout="5s" \
    op stop interval="0" timeout="5s" \
    meta target-role="Started"
primitive mysqld ocf:heartbeat:mysql \
    params binary="/usr/bin/mysqld_safe" client_binary="/usr/bin/mysql" config="/etc/mysql/my.cnf" \
    op monitor interval="20s" timeout="10s" \
    op start interval="0" timeout="240" \
    op stop interval="0" timeout="240" \

```

```

meta migration-threshold="10"
primitive ping_intgw ocf:pacemaker:ping \
  params host_list="10.10.110.248 10.10.110.249" multiplier="1000" dampen="30" \
  op monitor interval="10s"
group memcachedgroup ip_memcached memcached \
  meta target-role="Started"
group mysqlgroup fs_mysql ip_mysql mysqld \
  meta target-role="Started" is-managed="true"
ms ms_drbd_mysql drbd_mysql \
  meta master-max="1" master-node-max="1" clone-max="2" clone-node-max="1" notify="true" target-r
clone ping_intgw_clone ping_intgw \
  meta globally-unique="false"
location memcachedgroup_on_connected_node memcachedgroup \
  rule $id="memcachedgroup_on_connected_node-rule" -inf: not_defined pingd or pingd lte 0
location mysqlgroup_on_connected_node mysqlgroup \
  rule $id="mysqlgroup_on_connected_node-rule" -inf: not_defined pingd or pingd lte 0
colocation mysqlgroup_on_drbd inf: mysqlgroup ms_drbd_mysql:Master
order memcached_after_ip_memcached inf: ip_memcached memcached
order mysqlgroup_after_drbd inf: ms_drbd_mysql:promote mysqlgroup:start
property $id="cib-bootstrap-options" \
  dc-version="1.1.7-ee0730e13d124c3d58f00016c3376a1de5323cff" \
  cluster-infrastructure="openais" \
  expected-quorum-votes="2" \
  stonith-enabled="false" \
  last-lrm-refresh="1355412261" \
  no-quorum-policy="ignore"
rsc_defaults $id="rsc-options" \
  resource-stickiness="100"

```

## MySQL-HA + MongoDB-HA + Memcached-HA mit DRBD

```

primitive drbd_mongodb ocf:linbit:drbd \
  params drbd_resource="mongodb0" \
  op monitor interval="29s" role="Master" \
  op monitor interval="31s" role="Slave"

primitive drbd_mysql ocf:linbit:drbd \
  params drbd_resource="mysql0" \
  op monitor interval="29s" role="Master" \
  op monitor interval="31s" role="Slave"

primitive fs_mongodb ocf:heartbeat:Filesystem \
  params device="/dev/drbd1" directory="/var/lib/mongodb" fstype="xfs"

primitive fs_mysql ocf:heartbeat:Filesystem \
  params device="/dev/drbd0" directory="/var/lib/mysql" fstype="xfs"

primitive ip_memcached ocf:heartbeat:IPaddr2 \
  params ip="10.10.149.11" cidr_netmask="32" nic="eth0" \
  op monitor interval="10s" \
  meta is-managed="true"

primitive ip_mongodb ocf:heartbeat:IPaddr2 \
  params ip="10.10.149.16" cidr_netmask="32" nic="eth0" \
  op monitor interval="10s" \
  meta is-managed="true"

primitive ip_mysql ocf:heartbeat:IPaddr2 \
  params ip="10.10.149.8" cidr_netmask="32" nic="eth0" \
  op monitor interval="10s" \
  meta is-managed="true"

primitive memcached lsb:memcached \
  meta is-managed="true" \
  op monitor on-fail="restart" interval="20s" \
  op start interval="0" timeout="15s" \
  op stop interval="0" timeout="15s"

primitive mongodb lsb:mongod \
  meta target-role="Started"

primitive mysql lsb:mysql \
  meta target-role="Started"

primitive ping_services1 ocf:pacemaker:ping \
  params host_list="10.10.148.26 10.10.148.49" multiplier="1000" dampen="30" \

```

```

op monitor interval="10s"

group memcachedgroup ip_memcached memcached \
  meta target-role="Started"

group mongodbgroupp fs_mongodb ip_mongodb mongodb \
  meta target-role="Started"

group mysqlgroup fs_mysql ip_mysql mysql \
  meta target-role="Started"

ms ms_drbd_mongodb drbd_mongodb \
  meta master-max="1" master-node-max="1" clone-max="2" clone-node-max="1" notify="true"

ms ms_drbd_mysql drbd_mysql \
  meta master-max="1" master-node-max="1" clone-max="2" clone-node-max="1" notify="true"

clone ping_services1_clone ping_services1 \
  meta globally-unique="false"

location memcachedgroup_on_connected_node memcachedgroup \
  rule $id="memcachedgroup_on_connected_node-rule" -inf: not_defined pingd or pingd lte 0

location mongodbgroupp_on_connected_node mongodbgroupp \
  rule $id="mongodbgroupp_on_connected_node-rule" -inf: not_defined pingd or pingd lte 0

location mysqlgroup_on_connected_node mysqlgroup \
  rule $id="mysqlgroup_on_connected_node-rule" -inf: not_defined pingd or pingd lte 0

colocation mongodb_on_drbd inf: mongodbgroupp ms_drbd_mongodb:Master
colocation mysql_on_drbd inf: mysqlgroup ms_drbd_mysql:Master

order memcached_after_ip_memcached inf: ip_memcached memcached
order mongodb_after_drbd inf: ms_drbd_mongodb:promote mongodbgroupp:start
order mysql_after_drbd inf: ms_drbd_mysql:promote mysqlgroup:start

property $id="cib-bootstrap-options" \
  dc-version="1.1.7-ee0730e13d124c3d58f00016c3376alde5323cff" \
  cluster-infrastructure="openais" \
  expected-quorum-votes="2" \
  stonith-enabled="false" \
  no-quorum-policy="ignore" \
  last-lrm-refresh="1434463669"

rsc_defaults $id="rsc-options" \
  resource-stickiness="100"

```

Revision #1

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