Role DATA - Simple Master / Slave (CentOS8/Win2019)

Master Server

The following steps are required to configure a DATA server as master.

The first step is to create an appropriate configuration module. This is done with the following command:

```
cat <<EOFF > /etc/my.cnf.d/jtel-master.cnf
# Custom MySQL settings for a specific SQL master server
# WARNING: This file is specific to the master server
[mysqld]
# Replication Options
# Specific options for MASTER role
                             = 1
server_id
binlog_format
                             = ROW
                             = 3
expire_logs_days
max_binlog_size
                             = 100M
log_bin
                            = binlog
                          = mysqld-relay-bin
= mysqld-relay-bin.index
= relay-log.info
relay_log_index
relay_log
relay_log_info_file
```

The value server_id appears both in the configuration modules for master servers and in the configuration modules for slave servers. It is **important to ensure that this value is unique.** No DATA servers in a group may have the same server_id.

Next, a user is created with which the slave servers can connect to the master server - replace <password> with the corresponding password:

CAUTION PASSWORD

```
mysql -u root -p<password> -v -e"CREATE USER 'repl'@'%' IDENTIFIED WITH mysql_native_password BY '<password>'"
mysql -u root -p<password> -v -e"GRANT REPLICATION SLAVE ON *.* TO 'repl'@'%'"
mysql -u root -p<password> -v -e"FLUSH PRIVILEGES"
```

Afterwards the MySQL server must be restarted so that all settings are applied:

```
systemctl restart mysqld
```

Slave Server

The following steps are required to configure a DATA server as a slave. This is an unencrypted replication setup.

The first step is to create an appropriate configuration file. This is done with the following command:

```
cat <<EOFF > /etc/my.cnf.d/jtel-slave.cnf
# Custom MySQL settings for a specific SQL slave server
# WARNING: This file is specific to the slave server
[mysqld]
# Specific options for SLAVE role
server_id
                               = 101
log_slave_updates
                             = mysqld-relay-bin
relay_log
relay_log_index
                            = mysqld-relay-bin.index
relay_log_info_file
                             = relay-log.info
skip-log-bin
EOFF
```

The value server_id appears both in the configuration modules for master servers and in the configuration modules for slave servers. It is **important to ensure that this value is unique**. No DATA servers in a group may have the same server_id.

Afterwards the MySQL server must be restarted so that all settings are applied:

```
systemctl restart mysqld
```