

MYSQL JOB Monitoring

In this document we have monitoring the database job's and as well as cron job both we will monitor .



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📌 Step 1 — Create One Monitoring Database

```
CREATE DATABASE job_monitor;
```

```
USE job_monitor;
```

```
CREATE TABLE job_status (  
  id INT AUTO_INCREMENT PRIMARY KEY,  
  server_name VARCHAR(50),  
  job_name VARCHAR(100),  
  job_type ENUM('CRON','EVENT'),  
  start_time DATETIME,  
  end_time DATETIME,  
  status ENUM('RUNNING','SUCCESS','FAILED'),  
  message VARCHAR(255)  
);
```

```
CREATE USER 'monitor_agent'@'%' IDENTIFIED BY  
'monitor@';
```

```
GRANT INSERT, UPDATE, SELECT  
ON job_monitor.*  
TO 'monitor_agent'@'%';
```

```
FLUSH PRIVILEGES;
```

Allow network access : /etc/mysql/mysql.conf.d/mysqld.cnf
bind-address = 0.0.0.0

📌 Step 2 — Log from Cron Jobs (Shell Script)

```
#!/bin/bash
```

```
SERVER="DB01"  
JOB="DB_BACKUP"  
USER="monitor_agent"  
PASS="monitor@"  
DB="job_monitor"
```

```
START=$(date '+%F %T')
```

```
# Insert RUNNING  
mysql -u"$USER" -p"$PASS" "$DB" <<EOF  
INSERT INTO job_status  
(server_name,job_name,job_type,start_time,status)  
VALUES  
('$SERVER','$JOB','CRON','$START','RUNNING');  
EOF
```

```
# Run backup  
/usr/local/bin/database_backup_job.sh
```

```
if [ $? -eq 0 ]; then  
  STATUS="SUCCESS"  
  MSG="Backup completed"  
else  
  STATUS="FAILED"  
  MSG="Backup failed"  
fi
```

```
END=$(date '+%F %T')  
# Update status  
mysql -u"$USER" -p"$PASS" "$DB" <<EOF  
UPDATE job_status  
SET end_time='$END',  
  status='$STATUS',  
  message='$MSG'  
WHERE server_name='$SERVER'  
AND job_name='$JOB'  
AND start_time='$START';
```

On EACH Server: Modify Script

```
CENTRAL_DB="10.0.0.10"
```

```
USER="monitor_agent"  
PASS="monitor@"  
DB="job_monitor"
```

```
SERVER_NAME=$(hostname)
```

```
START=$(date '+%F %T')
```

```
# Log START  
mysql -h "$CENTRAL_DB" -u"$USER" -p"$PASS"  
"$DB" <<EOF  
INSERT INTO job_status  
(server_name,job_name,job_type,start_time,status)  
VALUES  
('$SERVER_NAME','DB_BACKUP','CRON','$START','R  
UNNING');  
EOF
```

```
END=$(date '+%F %T')
```

```
mysql -h "$CENTRAL_DB" -u"$USER" -p"$PASS"  
"$DB" <<EOF  
UPDATE job_status  
SET end_time='$END',  
  status='SUCCESS',  
  message='Backup OK'  
WHERE server_name='$SERVER_NAME'  
AND job_name='DB_BACKUP'  
AND start_time='$START';  
EOF
```

🚀 Step 3 — Log from MySQL Events

DELIMITER \$\$

```
CREATE EVENT delete_old_data
ON SCHEDULE EVERY 1 DAY
STARTS '2026-01-20 01:00:00'
DO
BEGIN
```

```
DECLARE start_t DATETIME;
SET start_t = NOW();
```

```
INSERT INTO job_monitor.job_status
(server_name,job_name,job_type,start_time,status)
VALUES
('MYSQL01','DELETE_OLD','EVENT',start_t,'RUNNING');
```

-- Your real job

```
DELETE FROM logs WHERE created_at < NOW() - INTERVAL 90 DAY;
```

```
UPDATE job_monitor.job_status
SET end_time=NOW(),
    status='SUCCESS',
    message='Cleanup done'
WHERE job_name='DELETE_OLD'
AND start_time=start_t;
```

END\$\$

DELIMITER ;

🚀 Step 4 — View All Jobs (One Query)

```
SELECT
    server_name,
    job_name,
    job_type,
    start_time,
    end_time,
    status,
    message
FROM job_monitor.job_status
ORDER BY start_time DESC
LIMIT 50;
```

This command is use on create a db on slave server :

```
SET SESSION sql_log_bin = 0;
```

```
CREATE DATABASE job_monitor;
```

```
SET SESSION sql_log_bin = 1;
```

- ✓ No GTID generated
- ✓ Not written to binlog
- ✓ Not replicated
- ✓ Safe

🚀 Step 5 — Detect Failed Jobs (Daily Check) ⚠️ Must be SUPER careful.

```
SELECT *
FROM job_monitor.job_status
WHERE status='FAILED'
AND start_time >= NOW() - INTERVAL 1 DAY;
```

```
mysql> SELECT server_name, job_name, job_type, start_time, end_time, status, message FROM job_monitor.job_status ORDER BY start_time DESC LIMIT 50;
```

server_name	job_name	job_type	start_time	end_time	status	message
172.18.163.64	DB_BACKUP	CRON	2026-01-30 15:36:07	2026-01-30 15:36:11	SUCCESS	Backup completed
172.18.163.64	DB_BACKUP	CRON	2026-01-30 15:33:33	2026-01-30 15:33:40	SUCCESS	Backup completed
172.18.163.64	DB_BACKUP	CRON	2026-01-30 15:32:43	2026-01-30 15:32:43	FAILED	Backup failed
172.18.163.64	DB_BACKUP	CRON	2026-01-30 15:28:27	2026-01-30 15:28:27	FAILED	Backup failed
172.18.163.64	DB_BACKUP	CRON	2026-01-30 15:27:46	NULL	RUNNING	NULL
172.18.163.64	DB_BACKUP	CRON	2026-01-30 15:18:01	2026-01-30 15:18:01	SUCCESS	Backup completed
172.18.163.64	DB_BACKUP	CRON	2026-01-30 15:15:59	NULL	RUNNING	NULL

7 rows in set (0.00 sec)