

# Configuring Doctrine for Email Queue Management in Mautic with Cron Jobs

## Configuring Doctrine for Email Queue Management in Mautic with Cron Jobs

### Overview

This guide provides a detailed process to configure Mautic to use Doctrine for managing email queues, implementing cron jobs to automate the process, and ensuring efficient and stable email delivery.

### Step 1: Setting Up Doctrine for Email Queues

#### Option 1: Configuring via local.php File

1. **Locate the local.php File**

- The local.php file is typically found in the app/config directory of your Mautic installation.

2. **Edit the Configuration File**

- Add or modify the following settings in the local.php file:

```
<?phpreturn array(// Other Mautic configuration settings...'messenger' => [    'default_bus' => 'messenger.bus.default',    'transports' => [        'doctrine' => [            'dsn' => 'doctrine://default?table_name=messenger_messages',            ],        ],    ],// Additional configuration settings...);
```

3. **Save the File**

- Save the changes. These settings will be applied during the next

queue processing.

## Option 2: Configuring via Mautic's Queue Configuration Screen

2. **Access the Queue Configuration Screen**
  - Log in to your Mautic dashboard.
  - Navigate to *Settings > Queue Settings*.
3. **Configure the Queue Settings**
  - **Queue Transport:** Doctrine
  - **Scheme:** doctrine
  - **Host:** default
  - **Table Name:** messenger\_messages
4. **Save the Configuration**
  - Click *Save & Close* to apply the changes.

## Step 2: Implementing Cron Jobs for Automated Email Sending

### Creating the Shell Script

1. **Create the Script**
  - Save the following script as  
/path/to/mautic/var/lock/consume\_mautic.sh:

```
#!/bin/bash# Path to the lock fileLOCKFILE="/path/to/mautic/var/lock/consume_mautic.lock"LOGFILE="/path/to/mautic/var/logs/mautic_consume_detailed.log"# Define the lock file timeout (9 minutes = 540 seconds)LOCKFILE_TIMEOUT=540# Function to log messageslog() {    echo "$(date +%Y-%m-%d %H:%M:%S') - $1" >> "$LOGFILE"}log "Script started."# Check if the lock file existsif [ -e $LOCKFILE ]; then    LOCKFILE_AGE=$(( $(date +%s) - $(stat -c %Y $LOCKFILE) ))    if [ $LOCKFILE_AGE -ge $LOCKFILE_TIMEOUT ]; then        log "Lock file is older than $LOCKFILE_TIMEOUT seconds. Removing stale lock file."        rm -f $LOCKFILE    else        log "Process is already running. Exiting."    fielse    log "Process is already running. Exiting."fiexit 1    fifi# Create the lock filetouch $LOCKFILElog "Lo
```

```
ck file created."# Run the messenger:consume command for email  
s with increased verbosity and log the outputlog "Starting to  
consume messages..." /usr/bin/php /path/to/mautic/bin/console m  
essenger:consume email --limit=60 --time-limit=480 --memory-li  
mit=128M -vvv >> "$LOGFILE" 2>&1log "Finished consuming messag  
es."# Remove the lock file when done  
rm -f $LOCKFILElog "Lock f  
ile removed."log "Script finished."
```

## 2. Make the Script Executable

- Grant execute permissions to the script:

```
chmod +x /path/to/mautic/var/lock/consume_mautic.sh
```

## Configuring the Cron Job

### 2. Open the Crontab

- Edit your crontab with the following command:

```
crontab -e
```

### 3. Add the Cron Job

- Add this line to your crontab:

```
*/10 * * * * /path/to/mautic/var/lock/consume_mautic.sh >> /pa  
th/to/mautic/var/logs/mautic_consume.log 2>&1
```

This schedules the script to run every 10 minutes, logging output to `mautic_consume.log`.

## Setting Up Directories and Permissions

### 2. Create Necessary Directories

- Ensure the required directories exist:

```
mkdir -p /path/to/mautic/var/lockmkdir -p /path/to/mautic/var/
```

```
logs
```

### 3. Check Permissions

- Verify that the user running the cron job has appropriate permissions for these directories.

## Testing the Setup

### 2. Run the Script Manually

- Test the script by running it manually:

```
/path/to/mautic/var/lock/consume_mautic.sh
```

### 3. Check the Logs

- Monitor the log file to ensure the script is processing emails correctly:

```
tail -f /path/to/mautic/var/logs/mautic_consume.log
```

## Step 3: Monitoring and Troubleshooting

### Disk Space and Table Management

- **Warning:** The messenger\_messages table can fill up quickly, especially under heavy load. Regularly monitor disk space and consider implementing automated cleanup routines to prevent crashes.
- **Alternative Queues:** If Doctrine struggles with high volumes, consider switching to a more scalable queue system like Redis or RabbitMQ.

### Additional Logging

- **Verbose Logs:** The -vvv flag in the script provides detailed logs that can help diagnose issues.

## Common Issues

- **Lock File Persistence:** Ensure the script removes the lock file after processing to avoid blocking future executions.
- **Message Backlog:** If the messenger\_messages table fills up, consider adjusting cron timings or migrating to a different transport.

Online URL:

<https://kb.mautic.org/article/configuring-doctrine-for-email-queue-management-in-mautic-with-cron-jobs.html>