

# MsSQL - Restore

## Master/Model/MSDB

Steps to Restore the `master` Database:

- **Stop the SQL Server Instance:**

- Open SQL Server Configuration Manager or Windows Services.
- Locate the SQL Server service (e.g., `SQL Server (MSSQLSERVER)` for a default instance).
- Stop the service.

- **Start SQL Server in Single-User Mode:**

- Open the SQL Server service properties (e.g., by double-clicking the service in Services).
- Go to the "Startup Parameters" tab.
- Add `-m` (for single-user mode) to the existing startup parameters. If there are existing parameters, separate them with a semicolon.
- Start the SQL Server service from there

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- Connect using `sqlcmd`:

- Open a new Command Prompt window as Administrator.
- Navigate to the SQL Server Binn directory (e.g., `C:\Program Files\Microsoft SQL Server\MSSQLXX\MSSQLSERVER\MSSQL\Binn`).
- Connect to the SQL Server instance using `sqlcmd` in single-user mode. For a default instance, use:

```
sqlcmd -S . -E -d master  
sqlcmd -S . -U sa - P PASSWORD -d master
```

For a named instance, replace `.` with `.\<InstanceName>`

- Restore the `master` Database:

- In the `sqlcmd` prompt, execute the following `RESTORE DATABASE` command, replacing `<path_to_backup_file>` with the actual path to your `master` database backup file:

```
RESTORE DATABASE master FROM DISK =
```

```
'\\192.168.1.61\Backups\UNIBCESRV02\master\FULL\UNIBCESRV02_master_FULL_20250910_010011.bak' WITH  
REPLACE, RECOVERY;
```

```
RESTORE DATABASE model FROM DISK =
```

```
'\\192.168.1.61\Backups\UNIBCESRV02\model\FULL\UNIBCESRV02_model_FULL_20250910_010013.bak' WITH  
REPLACE, RECOVERY;
```

```
RESTORE DATABASE msdb FROM DISK =
```

```
'\\192.168.1.61\Backups\UNIBCESRV02\msdb\FULL\UNIBCESRV02_msdb_FULL_20250910_010014.bak' WITH  
REPLACE, RECOVERY;
```

## Check integrity

```
DBCC CHECKDB ('master') WITH ALL_ERRORMSG, EXTENDED_LOGICAL_CHECKS;
```

- The `WITH REPLACE` option is crucial as it overwrites the existing `master` database.
- The `RECOVERY` option brings the database online after the restore.
- **Restart SQL Server in Normal Mode:**
  - After the restore completes and `sqlcmd` indicates the instance is shutting down, stop the SQL Server service again.
  - Remove the `-m` startup parameter from the SQL Server service properties.
  - Start the SQL Server service normally.
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