

Local MariaDB repositories for Ubuntu for off-line installations

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Abstract

Due to limited CD image size the current ubuntu-server release 11.10 (oneiric) and 12.04 LTS (precise) don't include MariaDB packages on the distribution iso image. The herein described MariaDB repositories are required for off-line installations like in isolated data center environment.

MariaDB is a database server that offers drop-in replacement functionality for MySQL. MariaDB is built by some of the original authors of MySQL, with assistance from the broader community of Free and open source software developers. In addition to the core functionality of MySQL, MariaDB offers a rich set of feature enhancements including alternate storage engines, server optimizations, and patches.

MariaDB is primarily driven by developers at Monty Program, a company founded by Michael "Monty" Widenius, the original author of MySQL, but this is not the whole story about MariaDB. On the "About MariaDB" page you will find more information about all participants in the MariaDB community, including storage engines XtraDB and PBXT.

This document is designed to be readable by someone with basic Linux/UNIX command-line and ubuntu administration skills.

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Local MariaDB repositories for off-line installations

The below described MariaDB repositories are required for off-line installations like in isolated data center environment. For security reason it is always recommended to install OS in isolated environment anyway, run required hardening steps and execute security checks before connecting it to internet.

These repositories are available as .tgz archives or iso images (they exist currently only for MariaDB 5.5) at: <http://rsync.it-infrastrukturen.org/mariadb/ubuntu/>

MariaDB 5.5.23 for ubuntu-server 11.10 (oneiric)

After off-line installation of ubuntu-server a local repository of MariaDB will be used as follows:

- Unpack the .tgz archive locally or add the CD (iso) to the repository list
- Modify /etc/apt/sources.list and run "apt-get update"
- Install required MariaDB packages (like "apt-get install mariadb-server")

Listing 1: cat /etc/apt/sources.list

```
# Add a line like the one below to /etc/apt/sources.list
# and run apt-get update
deb file:///tmp/mariadb55-oneiric-repo oneiric main
```

Listing 2: ls -lR mariadb55-oneiric-repo/packages/ |grep mariadb

```
mariadb55-oneiric-repo/packages/:
libmariadbclient18_5.5.23-mariadb1~oneiric_amd64.deb
libmariadbclient-dev_5.5.23-mariadb1~oneiric_amd64.deb
libmariadbdev_5.5.23-mariadb1~oneiric_amd64.deb
libmysqlclient18_5.5.23-mariadb1~oneiric_amd64.deb
mariadb-client-5.5_5.5.23-mariadb1~oneiric_amd64.deb
mariadb-client-core-5.5_5.5.23-mariadb1~oneiric_amd64.deb
mariadb-common_5.5.23-mariadb1~oneiric_all.deb
mariadb-server_5.5.23-mariadb1~oneiric_all.deb
mariadb-server-5.5_5.5.23-mariadb1~oneiric_amd64.deb
mariadb-server-core-5.5_5.5.23-mariadb1~oneiric_amd64.deb
```

MariaDB 5.3.7 for ubuntu-server 11.10 (oneiric)

After off-line installation of ubuntu-server a local repository of MariaDB will be used as follows:

- Unpack the .tgz archive locally
- Modify /etc/apt/sources.list and run "apt-get update"
- Install required MariaDB packages (like "apt-get install mariadb-server")

Listing 3: cat /etc/apt/sources.list

```
# Add a line like the one below to /etc/apt/sources.list
# and run apt-get update
deb file:///tmp/mariadb53-oneiric-repo oneiric main
```

Listing 4: ls -lR mariadb53-oneiric-repo/packages/ |grep mariadb

```
mariadb53-oneiric-repo/packages/:
libmariadbclient16_5.3.5-mariadb113~oneiric_amd64.deb
libmysqlclient16_5.3.5-mariadb113~oneiric_amd64.deb
mariadb-client-5.3_5.3.5-mariadb113~oneiric_amd64.deb
mariadb-client-core-5.3_5.3.5-mariadb113~oneiric_amd64.deb
mariadb-server-5.3_5.3.5-mariadb113~oneiric_amd64.deb
mariadb-server_5.3.5-mariadb113~oneiric_all.deb
mariadb-server-core-5.3_5.3.5-mariadb113~oneiric_amd64.deb
mysql-common_5.3.5-mariadb113~oneiric_all.deb
```

MariaDB 5.5.23 for ubuntu-server 12.04 (precise)

After off-line installation of ubuntu-server a local repository of MariaDB will be used as follows:

- Unpack the .tgz archive locally or add the CD (iso) to the repository list
- Modify /etc/apt/sources.list and run "apt-get update"
- Install required MariaDB packages (like "apt-get install mariadb-server")

Listing 5: cat /etc/apt/sources.list

```
# Add a line like the one below to /etc/apt/sources.list
# and run apt-get update
deb file:///tmp/mariadb5.5-precise-repo precise main
```

Listing 6: ls -lR mariadb5.5-precise-repo/pool/main/m/mariadb-5.5/

```
mariadb5.5-precise-repo/pool/main/m/mariadb-5.5:
libmariadbclient18_5.5.23-mariadb1~precise_amd64.deb
libmariadbclient-dev_5.5.23-mariadb1~precise_amd64.deb
libmariadbdev_5.5.23-mariadb1~precise_amd64.deb
libmysqlclient18_5.5.23-mariadb1~precise_amd64.deb
mariadb-5.5_5.5.23-mariadb1~precise.dsc
mariadb-5.5_5.5.23-mariadb1~precise.tar.gz
mariadb-client_5.5.23-mariadb1~precise_all.deb
mariadb-client-5.5_5.5.23-mariadb1~precise_amd64.deb
mariadb-client-core-5.5_5.5.23-mariadb1~precise_amd64.deb
mariadb-common_5.5.23-mariadb1~precise_all.deb
mariadb-server_5.5.23-mariadb1~precise_all.deb
mariadb-server-5.5_5.5.23-mariadb1~precise_amd64.deb
mariadb-server-core-5.5_5.5.23-mariadb1~precise_amd64.deb
mariadb-test_5.5.23-mariadb1~precise_all.deb
mariadb-test-5.5_5.5.23-mariadb1~precise_all.deb
mysql-common_5.5.23-mariadb1~precise_all.deb
```

Additional non MariaDB specific libraries for ubuntu-server 12.04 (precise)

Depends on ubuntu-server installation profile some additional libraries (mariadb-precise-libs-repo.tgz) may be required to successfully install MariaDB 5.5.23 on ubuntu-server 12.04 in off-line mode.

After off-line installation of ubuntu-server a local repository of these libs can be used as follows:

- Unpack the .tgz archive locally
- Modify /etc/apt/sources.list and run "apt-get update"
- Install required MariaDB packages (like "apt-get install mariadb-server")

Listing 7: cat /etc/apt/sources.list

```
# Add an additional line like the one below to /etc/apt/sources.list
# and run apt-get update
deb file:///tmp/mariadb-precise-libs-repo precise main
```

Listing 8: /tmp/mariadb-precise-libs-repo/pool/main

```
./libd/libdbd-mysql-perl/libdbd-mysql-perl_4.020-1build2_amd64.deb
./libd/libdbi-perl/libdbi-perl_1.616-1build2_amd64.deb
./libh/libhtml-template-perl/libhtml-template-perl_2.10-1_all.deb
./libn/libnet-daemon-perl/libnet-daemon-perl_0.48-1_all.deb
./libp/libplrpc-perl/libplrpc-perl_0.2020-2_all.deb
```