

MySQL in openSUSE



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Distribution overview



Flavors

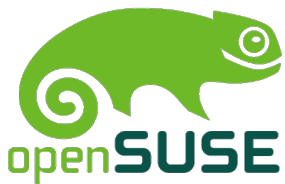
- openSUSE
 - open, free, community driven distribution
 - current version 11.2
 - officially supports i586, x86_64
 - unofficial attempts to supports arm, mips, sparc
 - older supported versions: 11.1 and 11.0
 - officially supports i586, x86_64, PPC, PPC64
- SLE
 - our enterprise distribution
 - Many flavors
 - SLES, SLED, SLEPOS, ...
 - supports i586, x86_64, PPC, PPC64, ia64, s390
 - current version 11
 - older supported versions: 10 and 9

Package versions

- SLE
 - SLE 9 - MySQL 4.0.18
 - SLE 10 - MySQL 5.0.26
 - SLE 11 - MySQL 5.0.67

- openSUSE
 - openSUSE 11.0 - MySQL 5.0.51a
 - openSUSE 11.1 - MySQL 5.0.67
 - openSUSE 11.2 - MySQL 5.1.36

How do we package



openSUSE Build Service

- Used to build all our distributions (except SLE9)
 - Enterprise products are developed in the internal one
- Easy for users to find software there
- Easy for packagers to maintain packages there
- Builds package for multiple distributions (not only SUSE ones)
 - SLE 9 - 11, openSUSE 11.0 - Factory, Fedora 10 - 12, Debian 4 - 5, RHEL 4 - 5, CentOS 5, Mandriva 2009 - 2010, xUbuntu 6.06 8.05 - 9.10
- Built-in version control system
- Supports branches
 - Changes on one place gets easily propagated to another
 - Anybody can do his fork, create his own repository and send patches

MySQL Projects in OBS



server:database:STABLE

- Contains links to the versions in last released product
- Gets build for older SuSE releases
 - SLE 10, SLE 11, openSUSE 11.0, openSUSE 11.1, openSUSE 11.2
- Maintenance fixes should appear here first
- Currently:
 - MySQL 5.1.36
 - MySQL GUI Tools 5.0r14
 - MySQL Workbench 5.1.16
 - MySQL Connector C++ 1.0.5

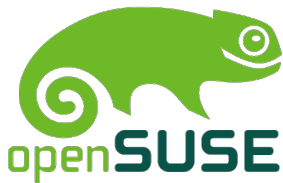
server:database

- Contains either versions intended for next release or not intended to be released as a part of official openSUSE
- Gets build for various SuSE releases
- MySQL gets build also for Fedora and CentOS
- Currently:
 - MySQL 5.1.42
 - MySQL GUI Tools 5.0r14
 - MySQL Workbench 5.1.16
 - MySQL Connector C++ 1.0.5

server:database:UNSTABLE

- Contains bleeding edge and testing version
- Gets build for various SuSE releases
- Gets build also for Fedora
- Some packages also gets build for CentOS and RHEL
- Currently:
 - MySQL 5.5.1
 - MariaDB 5.1.42
 - MySQL Workbench 5.2.15
 - MySQL Connector C++ (2009-01-21)

How do we differ?



Current differences

- Our own init script
- Patch to reload in `mysqld_multi`
- Patch to support `--group` option in `mysqld_safe.sh` and `mysql_install_db`
- Plugins are enabled by default (patched `mysql_install_db`)
- Socket file is in `/var/run/mysql`
- Log file is in `/var/log/mysql`
- `mysql-test` is in `/usr/share/mysql-test`
 - `SafeProcess` is in `/usr/bin` as it is binary
- utf-8 as a default charset

Possible differences

- Shared library `libmysqld`
- `mysql`, `mysql-client`, ... will be just a provided symbols
 - Multiple packages can provide that symbol
 - MySQL package will have different name
 - It will be possible for end user to choose flavor
 - MySQL Community Server
 - MySQL Cluster
 - MariaDB
 - ...
- Things I'll learn here ;-)