

# MySQL Sandbox 3.0

Installing and testing MySQL servers  
effortlessly

<http://launchpad.net/mysql-sandbox>



GIUSEPPE MAXIA  
MYSQL COMMUNITY

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# Overview

- Not an official Sun/MySQL product
- GPL
- installs from a tarball in a few seconds
- to install **side servers**, not the main instance
- creates a separated environment
  - data directory
  - port
  - socket
  - groups of related or unrelated servers

<http://launchpad.net/mysql-sandbox/>



# System requirements

- Unix like operating system
  - Linux
  - Mac OS X
  - Solaris
  - Free BSD
- MySQL binary tarball
- MySQL Sandbox (current version 2.0.99a)
- Perl
- Bash shell



explaining the sandbox is like  
boxing

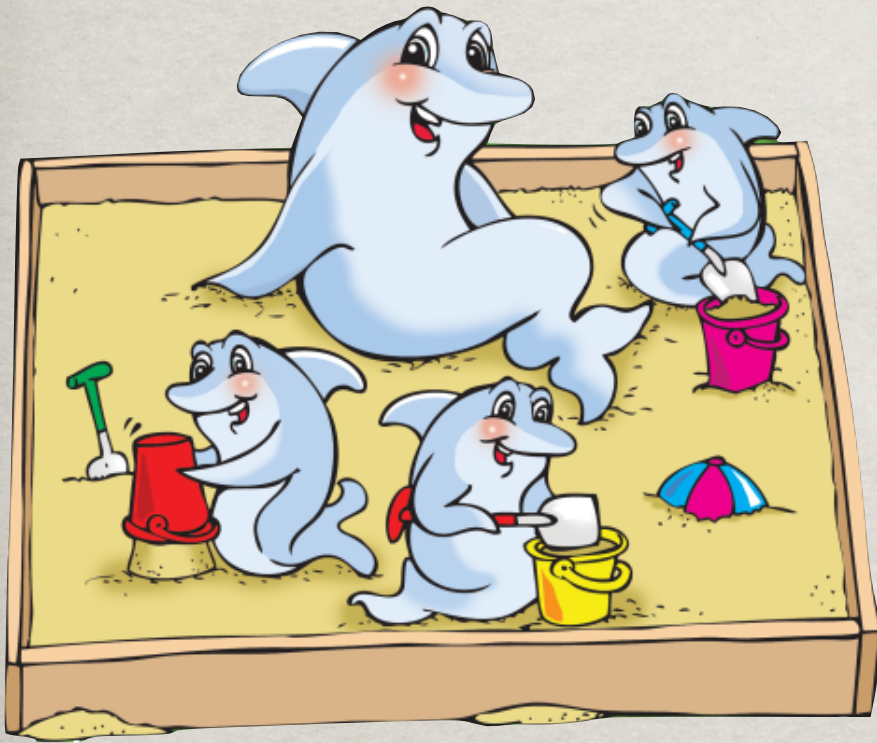


explaining the sandbox is like  
boxing



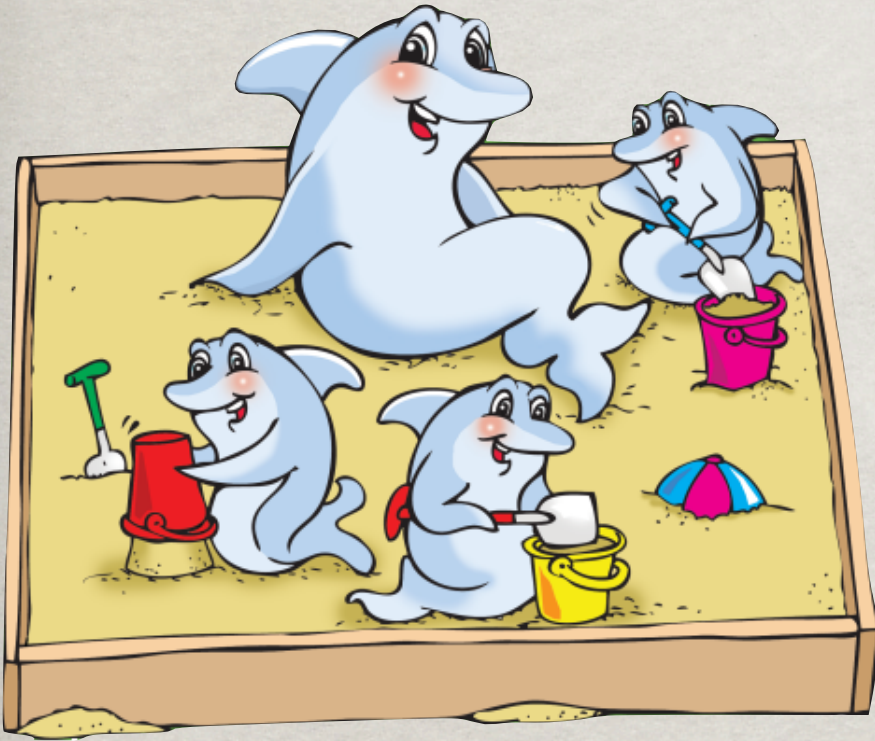


# explaining the sandbox is like boxing





explaining the sandbox is like  
boxing



**explaining takes longer than delivering**



# Overview



MySQL Server

data directory

port

socket



MySQL Server

data directory

port

socket



# Overview



MySQL Server

same data  
directory?



MySQL Server

`/usr/local/mysql/data`

`/usr/local/mysql/data`

**data corruption**



# Overview



MySQL Server

same  
data port or  
socket?



MySQL Server

3306

/tmp/mysql.sock

3306

/tmp/mysql.sock

does not start



# the hard way

- 1.unpack the tarball
- 2.ensure that it goes to a separate directory
- 3.create the database tables
- 4.create a .cnf file with separate
  - port
  - data directory
  - socket
- 5.launch mysqld\_safe manually
- 6.launch mysql with options



**error prone**



# Why tar.gz? Why not .rpm/.deb/.pkg?

- it would work
- but only in their specific environments

**The sandbox aims at being standard across operating systems.**

**It works the same way on Linux, Mac OSX, OpenSolaris, FreeBSD, and probably many more**



# MySQL Sandbox



MySQL Server

VERSION



`$SANDBOX_HOME/msb_VERSION/data`

VERSION

`/tmp/mysql_VERSION.sock`





# MySQL Sandbox



MySQL Server

5.1.32



`$SANDBOX_HOME/msb_5_1_32/data`

`5132`

`/tmp/mysql_5132.sock`





# MySQL Sandbox



MySQL Server

6.0.6



`$SANDBOX_HOME/msb_6.0.6/data`

`6006`

`/tmp/mysql_6006.sock`





# MySQL Sandbox



MySQL Server

**single sandbox  
commands**

**start  
stop  
clear  
send\_kill**

**use**



# MySQL Sandbox



MySQL Server

multiple sandbox  
commands

One sandbox to  
rule them all

```
start_all  
stop_all  
clear_all  
send_kill_all  
use_all
```

m

s1

s2

n1

n2

n3





# The easy way - installation

```
# as root
```

```
$ cpan
```

```
cpan> install MySQL::Sandbox
```





# Installing the sandbox as unprivileged user

```
# download the sandbox
# http://launchpad.net/mysql-sandbox/
$ tar -xzf MySQL-Sandbox-x.x.x.tar.gz
$ cd MySQL-Sandbox-x.x.x/
$ perl Makefile.PL \
    PREFIX=$HOME/usr/local
$ make
$ make test
$ make install

# change $PERL5LIB and $PATH
```





# The easy way - single sandbox

```
$ make_sandbox \  
/path/mysql-OS-5.1.26.tar.gz
```

```
# that's it!
```





# The easy way - replication

```
$ make_replication_sandbox \  
  /path/mysql-OS-5.1.26.tar.gz
```

```
# that's it!
```





# The easy way - circular replication

```
$ make_replication_sandbox \  
  --circular=5 \  
  /path/mysql-OS-5.1.26.tar.gz  
  
# that's it!
```





# The easy way - multiple servers

```
$ make_multiple_sandbox \  
    /path/mysql-OS-5.1.26.tar.gz
```

```
# that's it!
```





# The even easier way - \$SANDBOX\_BINARY

```
# default SANDBOX_BINARY=$HOME/opt/mysql
```

```
$ export SANDBOX_BINARY=$HOME/mybin
```

```
$ ls $SANDBOX_BINARY
```

```
5.0.64 5.0.66 5.0.67 5.1.20
```

```
5.1.23 5.1.24 5.1.25 5.1.26
```

```
5.1.28 5.1.29 6.0.5 6.0.6
```

```
$ make_sandbox 5.1.29
```

```
# that's it!
```





# multiple servers - different versions

```
$ make_multiple_custom_sandbox \  
    5.0.67 5.1.26 6.0.6
```

```
# that's it!
```





# fine tuning

```
$ make_sandbox \  
  /path/mysql-OS-5.1.26.tar.gz \  
  [option] [option] [option]
```





# pick your size

```
$ make_sandbox \  
  /path/mysql-OS-5.1.26.tar.gz \  
  --my_file={small|medium|large|huge}
```





# fine tuning easily

```
$ make_sandbox \  
  /path/mysql-OS-5.1.26.tar.gz \  
  --interactive
```





# fine tuning easily

Enter the values for each option

- \* To leave the interactive choice and accept default values for the remaining options, enter '**default**'
  - \* To go to the previous item, enter '**back**'
  - \* To quit the installation without any action, enter '**quit**'
- 

home\_directory

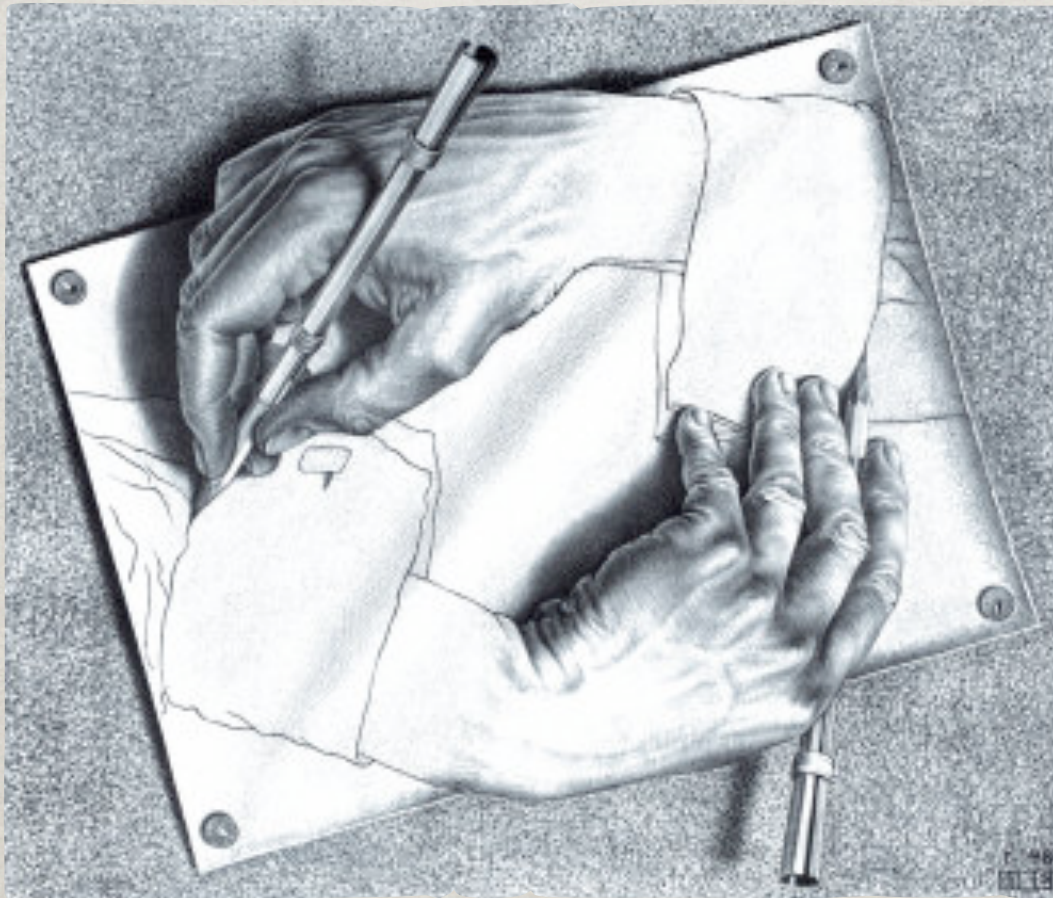
The home directory. (default: **\$HOME/sandboxes**  
(/Users/gmax/sandboxes))

Your choice: (current value [/Users/gmax/sandboxes]) \_





hands on





# Using the sandbox

## ./start

- ☼ starts the server
- ☼ creates a .pid file in the data directory
- ☼ creates a socket file in /tmp
- ☼ if a .pid file exists, it exits immediately





# Using the sandbox

## **./stop**

- ✿ stops the server
- ✿ if no .pid file exists, it exits immediately





# Using the sandbox

## `./send_kill`

- ☼ stops the server, using  
`kill -TERM pid#`
- ☼ if the server is unresponsive, uses  
`kill -KILL pid#`





# Using the sandbox

## **./clear**

- ✻ stops the server (by calling the stop script)
- ✻ removes all files in the data directory
- ✻ empties the test database





# Using the sandbox

## **./use**

- ☼ starts the mysql client
- ☼ uses the credentials in the my\_sandbox.cnf
- ☼ default username and password:
  - msandbox/msandbox
- ☼ root password:
  - msandbox





# Using the sandbox

`./my {sqldump|sqlbinlog|sqladmin}`

- ✻ starts a mysql command line tool
- ✻ uses the credentials in the my\_sandbox.cnf
- it's a shortcut to call the tool from the right version with the proper options





# using mysql clients

```
$ ./my sqlbinlog \  
    ./data/mysql-bin.000001 |less
```

```
$ ./my sqldump dbname > dumpname
```

```
$ ./my sqladmin extended-status  
# no username or password needed!
```





# Using the replication sandbox

**./start\_all**

- starts the master and all the slaves

**./stop\_all**

- stops all the slaves and then the master

**./send\_kill\_all**

- kills all the slaves and then the master

**./clear\_all**

- clears all the slaves and then the master

**./use\_all "command"**

- executes "command" for all nodes





# Using the replication sandbox

`./m`

- uses the master

`./s1`

- uses the first slave

`./s2 [s3, s4 ... ]`

- uses the Nth slave





# Using the multi-nodes sandbox

***./start\_all***

- starts all the nodes

***./stop\_all***

- stops all the nodes

***./send\_kill\_all***

- kills all the nodes

***./clear\_all***

- clears all the nodes

***./use\_all "command"***

- executes "command" for all nodes





# Using the multi-node sandbox

`./n1`

- uses the first node

`./n2 [n3, n4 ... ]`

- uses the Nth node





Using the `$SANDBOX_HOME` directory  
the master sandbox that rules them all

`./start_all`

- starts all the sandboxes

`./stop_all`

- stops all the sandboxes

`./clear_all`

- clear all the sandboxes

`./use_all "SQL statement"`

- passes a SQL statement to all servers in all sandboxes





# a crowded host



The diagram illustrates a 'crowded host' architecture. On the left, there are three stacks of cyan rounded rectangles. The top stack contains one rectangle labeled 'sandbox 5.0.67'. The middle stack contains three overlapping rectangles, with the top one labeled 'replication 5.0.67'. The bottom stack contains three overlapping rectangles, with the top one labeled 'independent 5.0.67'. To the right of these stacks is a large orange oval labeled '7 servers'.

sandbox  
5.0.67

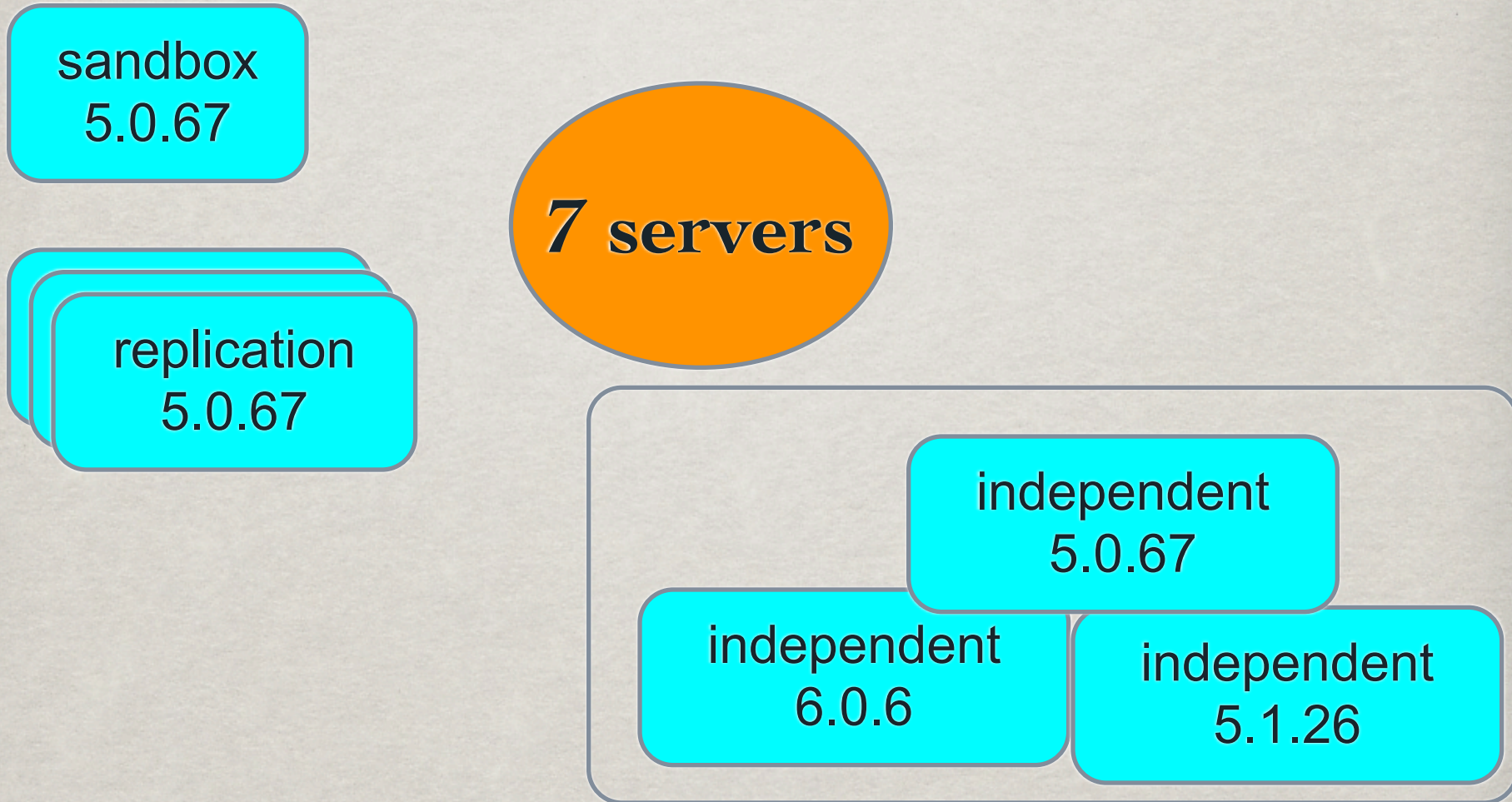
replication  
5.0.67

independent  
5.0.67

**7 servers**

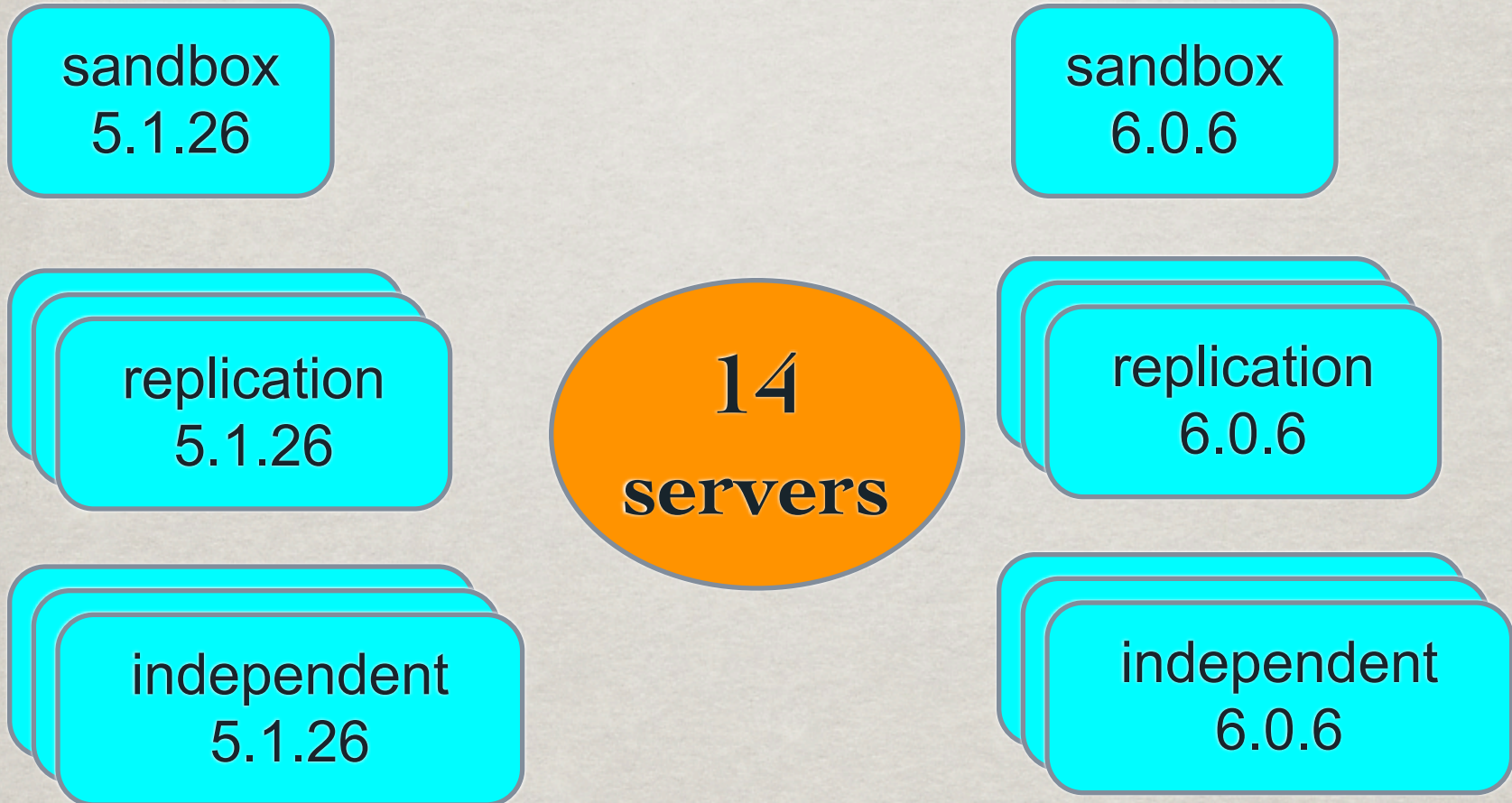


# a differently crowded host





# a more crowded host





# an even more crowded host

sandbox  
5.0.67

sandbox  
5.1.26

sandbox  
6.0.6

replication  
5.0.67

replication  
5.1.26

replication  
6.0.6

independent  
5.0.67

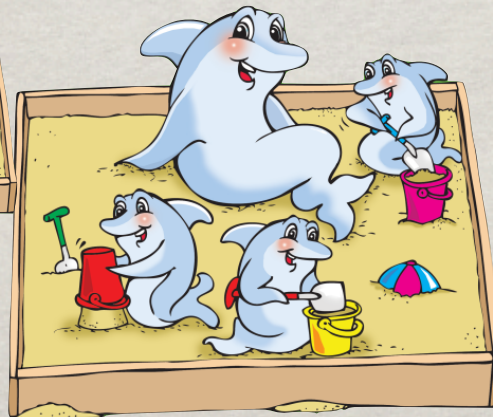
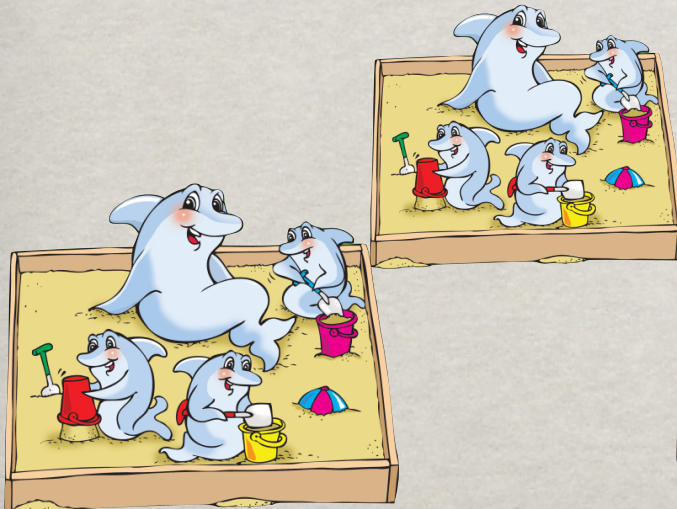
independent  
5.1.26

independent  
6.0.6

21



# DEMO TIME





# Installing a single one

## \$ make\_sandbox 5.1.29

```
Executing ./low_level_make_sandbox --basedir=/Users/gmax/opt/mysql/5.1.29 \  
--sandbox_directory=msb_5_1_29 \  
--install_version=5.1 \  
--sandbox_port=5129 \  
--no_ver_after_name \  
--my_clause=log-error=msandbox.err
```

The MySQL Sandbox, version 2.0.12 16-Oct-2008

(C) 2006,2007,2008 Giuseppe Maxia, Sun Microsystems, Database Group

installing with the following parameters:

```
upper_directory           = /Users/gmax/sandboxes  
sandbox_directory         = msb_5_1_29  
sandbox_port              = 5129  
datadir_from              = script  
install_version           = 5.1  
basedir                   = /Users/gmax/opt/mysql/5.1.29  
operating_system_user     = gmax  
db_user                   = msandbox  
db_password               = msandbox  
my_clause                 = log-error=msandbox.err  
prompt_prefix             = mysql  
prompt_body               = [\h] {\u} (\d) > '  
do you agree? ([Y],n)  
loading grants  
.. sandbox server started
```

-----  
Your sandbox server was installed in /Users/gmax/sandboxes/msb\_5\_1\_29





# Using a single one

```
$ cd $HOME/sandboxes/msb_5_1_29  
$ ./use
```

```
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 3  
Server version: 5.1.29-rc MySQL Community Server (GPL)  
  
Type 'help;' or '\h' for help. Type '\c' to clear the  
buffer.
```

```
mysql [localhost] {msandbox} ((none)) >
```





# Installing a replication sandbox

```
$ make_replication_sandbox 5.1.29
```

```
installing and starting master
```

```
installing slave 1
```

```
installing slave 2
```

```
starting slave 1
```

```
.. sandbox server started
```

```
starting slave 2
```

```
.. sandbox server started
```

```
initializing slave 1
```

```
initializing slave 2
```

```
replication directory installed on
```

```
/Users/gmax/sandboxes/rsandbox_5_1_29
```





# using a replication sandbox

```
$ cd $HOME/sandboxes/rsandbox_5_1_29
```

```
# m = master
```

```
$ ./m test
```

```
Welcome to the MySQL monitor.  Commands end with ; or \g.
```

```
Your MySQL connection id is 4
```

```
Server version: 5.1.29-rc-log MySQL Community Server (GPL)
```

```
Type 'help;' or '\h' for help. Type '\c' to clear the buffer.
```

```
master [localhost] {msandbox} (test) > create table t1 (i  
int);
```

```
Query OK, 0 rows affected (0.08 sec)
```





# using a replication sandbox

```
# s1 is slave1
```

```
$ ./s1 test
```

```
slave1 [localhost] {msandbox} (test) > show tables;
```

```
+-----+  
| Tables_in_test |  
+-----+  
| t1              |  
+-----+
```





# using a replication sandbox

# checking the slaves

\$ ./check\_slaves

slave # 1

Slave\_IO\_Running: Yes

Slave\_SQL\_Running: Yes

slave # 2

Slave\_IO\_Running: Yes

Slave\_SQL\_Running: Yes





# using a replication sandbox

# sending commands to all nodes

```
$ ./use all "SELECT @@server_id"
```

```
# master
```

```
@@server_id
```

```
1
```

```
# server: 1:
```

```
@@server_id
```

```
101
```

```
# server: 2:
```

```
@@server_id
```

```
102
```





# Example: breaking replication

## # leveraging command line scripts

```
$ ./m -e 'create table test.t2 (i int primary key) '
```

```
$ ./s1 -e 'insert into test.t2 values (1) '
```

```
$ ./m -e 'insert into test.t2 values (1) '
```

```
$ ./check_slaves
```

```
slave # 1
```

```
Slave_IO_Running: Yes
```

```
Slave_SQL_Running: No
```

```
slave # 2
```

```
Slave_IO_Running: Yes
```

```
Slave_SQL_Running: Yes
```

```
$ ./s1 -e 'show slave status\G' |grep Last_Error
```

```
Last_Error: Error 'Duplicate entry '1' for key 'PRIMARY''  
on query. Default database: ''. Query: '
```





# Installing circular replication

```
$ make_replication_sandbox --circular=4 5.1.34
installing node 1
installing node 2
installing node 3
installing node 4
# server: 1:
# server: 2:
# server: 3:
# server: 4:
Circular replication activated
group directory installed on
/Users/gmax/sandboxes/rcsandbox_5_1_34
```





# using circular replication

```
$ cd $HOME/sandboxes/rcsandbox_5_1_34
```

```
$ ./n1 -e 'create table test.t1 (i int)'
```

```
$ ./n3 -e 'insert into test.t1 values (3)'
```

```
$ ./use_all 'select * from test.t1'
```

```
# server: 1:
```

```
i
```

```
3
```

```
# server: 2:
```

```
i
```

```
3
```

```
# server: 3:
```

```
i
```

```
3
```

```
# server: 4:
```

```
i
```

```
3
```





# Easy testing conditions (1)

```
$ cd $HOME/sandboxes/msb_5_1_35
```

```
$ ./use -e 'show variables like  
"key_buffer_size"'
```

+	-----	+	-----	+
	Variable_name		Value	
+	-----	+	-----	+
	key_buffer_size		8384512	
+	-----	+	-----	+

```
# we need to increase this one
```





# Easy testing conditions (2)

```
$ ./restart --key_buffer=20M
```

```
$ ./use -e 'show variables like  
"key_buffer_size"'
```

+-----+-----+	
Variable_name	Value
+-----+-----+	
key_buffer_size	209715200
+-----+-----+	

```
# as easy as saying it!
```





# Testing same version in different conditions

```
$ make_multiple_sandbox 5.1.34 \  
  --group_directory=unpartitioned \  
  --base_port=5500 --check_base_port
```

```
$ make_multiple_sandbox 5.1.34 \  
  --group_directory=partitioned \  
  --how_many_nodes=4 \  
  --base_port=6500 --check_base_port
```





# Testing same version in different conditions

`$SANDBOX_HOME/unpartitioned`

|

`+-- node1 MyISAM`

|

`+-- node2 InnoDB`

|

`+-- node3 Archive`





# Testing same version in different conditions

`$SANDBOX_HOME/partitioned`

|

`+-- node1 MyISAM by month`

|

`+-- node2 InnoDB by month`

|

`+-- node3 InnoDB file per table by month`

|

`+-- node4 Archive by month`





# Running tests

```
cd $SANDBOX_HOME/unpartitioned
```

```
./stop_all
```

```
RESULTS=unpartitioned_results.txt
```

```
date > $RESULTS
```

```
for SB in 1 2 3
```

```
do
```

```
    ./node$SB/start
```

```
    time ./n$SB < test.sql >> $RESULTS
```

```
    ./node$DB/stop
```

```
done
```

```
# more on tests later on. Stay tuned
```





# Latest news

3.0





# MySQL Sandbox 3.0

- Released as Perl package - now on CPAN
- Added the sbtool
- Port detection
- Install from a source directory
- Allow the test suite to load and execute a customized test
- Improved documentation





# Port detection

```
$ make_sandbox 5.1.33 --check_port  
# port 5133 under msb_5_1_33
```

```
$ make_sandbox 5.1.33 --check_port  
# port 5134 under msb_5_1_33_a
```

```
$ make_sandbox 5.1.33 --check_port  
# port 5135 under msb_5_1_33_b  
# ... and so on
```





# Install from source directory

```
# compile mysql
```

```
$ ./configure && make
```

```
# install a sandbox
```

```
$ make_sandbox_from_source $PWD single
```





# sbtool - the sandbox helper

- Server clone
- Server move
- Change port
- Sandbox deletion
- List ports
- Find a port range
- Multi-level replication
- Convert a sandbox from temporary to permanent





# Cloning a sandbox

```
# install two sandboxes
```

```
$ make_sandbox 5.1.33
```

```
$ make_sandbox 5.1.34
```

```
# Load and process data into msb_5_1_33
```

```
# ...
```

```
# ...
```

```
# Clone data into the second sandbox
```

```
sbtool -o copy \
```

```
  -s $HOME/sandboxes/msb_5_1_33 \
```

```
  -d $HOME/sandboxes/msb_5_1_34
```





# Moving a sandbox

```
# install a sandbox
```

```
$ make_sandbox 5.1.33
```

```
# move it
```

```
sbtool -o move \
```

```
  -s $HOME/sandboxes/msb_5_1_33 \
```

```
  -d /some/path/a_fancy_name
```





# Powerful new testing (1)

```
# write a test script 'check_single_server.sb'
```

shell:

```
command = make_sandbox 5.1.30 --no_confirm
```

```
expected = sandbox server started
```

```
msg      = sandbox creation
```

sql:

```
path      = $SANDBOX_HOME/msb_5_1_30
```

```
query     = select version()
```

```
expected  = 5.1.30
```

```
msg       = checking version
```





# Powerful new testing (2)

```
# write a test script 'check_single_server.sb'  
# (continues)
```

shell:

command = \$SANDBOX\_HOME/msb\_5\_1\_30/stop

expected = OK

msg = stopped





# Powerful new testing (3)

# Run the test

```
$ test_sandbox --tests=user \  
  --user_test=t/check_single_server.sb  
** currently there are (0) mysqld processes  
and (0) mysqld_safe processes  
ok 1 - sandbox creation  
ok 2 - checking version  
ok 3 - stopped  
*** Executed 3 tests. Passed 3 (100.00%).  
Failed 0 ( 0.00%)
```





# Powerful new testing (4)

# Run the test is simple TAP mode

```
$ export TAP_MODE=1
```

```
$ test_sandbox --tests=user \  
  --user_test=t/check_single_server.sb
```

```
ok 1 - sandbox creation
```

```
ok 2 - checking version
```

```
ok 3 - stopped
```

# for more info on the TAP format:

```
$ perldoc Test::Harness::TAP
```





# Powerful new testing (5)

# Run the test inside a test suite

```
prove -v t/06_test_user_defined.t  
t/06_test_user_defined....
```

1..3

ok 1 - sandbox creation

ok 2 - checking version

ok 3 - stopped

ok

All tests successful.

Files=1, Tests=3, 8 wallclock secs ( 0.50  
cusr + 0.56 csys = 1.06 CPU)





# Create a replication tree

```
# 1 create a multiple sandbox
```

```
$ make_multiple_sandbox \  
  --how_many_nodes=12 5.0.77
```

```
# set the roles
```

```
$ sbtool -o tree \  
  --tree_dir=~/.sandboxes/multi_msb_5_0_77 \  
  --master_node=1 \  
  --mid_nodes='2 3 4' \  
  --leaf_nodes='5 6|7 8 9|10 11 12'
```





# Using a replication tree (1)

```
$ cd ~/sandboxes/multi_msb_5_0_77
```

```
$ ./n1 -e 'show slave hosts'
```

Server_id	Host	Port	Rpl_recovery_rank	Master_id
102	node2	19778	0	101
104	node4	19778	0	101
103	node3	19778	0	101





# Using a replication tree (2)

```
$ ./n2 -e 'show slave hosts'
```

Server_id	Host	Port	Rpl_recovery_rank	Master_id
105	node5	19779	0	102
106	node6	19779	0	102





# Using a replication tree (3)

```
$ ./n1 -e 'create table test.t1 (i int) '  
$ ./n1 -e 'insert into test.t1  
      values (@@server_id) '
```





# Using a replication tree (4)

```
$ ./use_all "select * from test.t1"
```

```
# server: 1:
```

```
i
```

```
101
```

```
# server: 2:
```

```
i
```

```
102
```

```
# server: 3:
```

```
i
```

```
103
```

```
# server: 4:
```

```
i
```

```
104
```

```
# server: 5:
```

```
i
```

```
105
```





# checking ports

```
$ sbttool -o ports
```

```
5078 0
```

```
5130 0
```

```
5131 0
```

```
5132 0
```

```
5133 1
```

```
5135 0
```

```
5333 0
```

```
5400 0
```

```
$ sbttool -o ports --only_used
```

```
5133 1
```





# checking ranges

```
$ sbttool -o range --min_range=5130  
5136 - 5146
```





# Preserving a sandbox

```
$ sbtool -o preserve \  
-s $HOME/sandboxes/msb_5_1_33/  
sandbox at <$HOME/sandboxes/msb_5_1_33/> is  
now permanent
```

```
$ $HOME/sandboxes/msb_5_1_33/clear
```

This sandbox is permanent.

The 'clear' command has been disabled.

The contents of the old 'clear' command are in  
the 'no\_clear' file





# un-preserving a sandbox

```
$ sbtool -o unpreserve \  
-s $HOME/sandboxes/msb_5_1_33/  
sandbox at <$HOME/sandboxes/msb_5_1_33/> is  
now NOT PERMANENT
```

```
$ $HOME/sandboxes/msb_5_1_33/clear
```

```
# no error
```





# deleting a sandbox

```
$ sbtool -o delete \  
-s $HOME/sandboxes/msb_5_1_35  
sandbox at <$HOME/sandboxes/msb_5_1_35> has  
been removed
```





# Roadmap

- Install on remote servers (in design)
- create a failover script in replication to promote a slave to master (in design)
- GUI
- flexible topology read-and-install





# Participate!

MySQL Sandbox in Launchpad

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launchpad MySQL Sandbox

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2.0!



## MySQL Sandbox

Quick painless install of side MySQL server in isolation. MySQL Sandbox is a tool for installing one or more MySQL servers in isolation, without affecting other servers

Quick start:

- `./sandbox` for an overview
- `make_sandbox` : the easiest way of creating a sandbox
- `low_level_make_sandbox` : Create a single sandbox, with fine tuning options (don't use directly)
- `make_replication_sandbox` : creates a sandbox with replicated master and slaves (or circular replication)
- `make_multiple_sandbox` : creates a group of sandboxes with the same version
- `make_multiple_custom_sandbox` : create a group of sandboxes with different versions

- [Home page](#)
- [Freshmeat record](#)
- [Wiki](#)
- [Screenshots](#)

Part of: [MySQL](#)

Uses Launchpad for: [Answers](#), [Blueprints](#), [Bug Tracking](#), and [Code](#).

Languages: Perl, bash

Maintainer: [Sandbox-developers](#)



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Loading "Bazaar branches of MySQL Sandbox"

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MySQL Sandbox  Log in / Register

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## Bazaar branches of MySQL Sandbox [Register a branch](#)

3 branches owned by 1 person, 1 commit by 1 person in the last month

0 active reviews, 0 approved merges

You can [browse the source code](#) for the development focus branch or get a copy of the branch using the command:

```
bzr branch lp:mysql-sandbox
```

There are [download files](#) available for MySQL Sandbox.

Branches with status:

Name	Status	Last Modified	Last Commit
lp:mysql-sandbox Series: mysql-sandbox-2.0	Mature	4 weeks ago	46. - Fixed small bug in 'clear' script. ...

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Loading "https://code.launchpad.net/mysql-sandbox", completed 4 of 12 items



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Bugs in MySQL Sandbox

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launchpad MySQL Sandbox

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## Bugs in MySQL Sandbox

by importance  [Advanced search](#)

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	Summary	Importance	Status
240121	option "my_file" breaks replication	Critical	Fix Released
244236	low_level_make_sandbox accepts unnecessary arguments	Critical	Fix Released
240589	sandbox_home is not created with set_replication/set_many	High	Fix Released
258523	Sandbox looks for tar.gz in wrong location	High	Fix Released
260265	installation fails with log-error option and version < 5	High	Fix Released
239630	Sandbox may behave incorrectly using non GNU tar	Medium	Fix Released
239632	sandbox may fail on slow host	Medium	Fix Released
243272	the 'clear' command does not remove non test databases, routines/events	Medium	Fix Released
244313	test suite uses non standard ps command to detect running servers	Medium	Fix Released
278394	character in database names	Medium	Fix Released

> [Report a bug](#)

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Filters

Open	0
Critical	0
New	0
Unassigned	0
All bugs ever reported	10

Series-targeted bugs

mysql-sandbox-1	0
mysql-sandbox-1.21	0
mysql-sandbox-1.99-alpha	0
mysql-sandbox-2.0	0

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Blueprints for MySQL Sandbox

https://blueprints.launchpad.net/mysql-sandbox

launchpad MySQL Sandbox

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## Blueprints for MySQL Sandbox

Show only blueprints containing:  Search blueprints [Register a blueprint](#)

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Priority	Blueprint	Design	Delivery	Assignee	Series
Essential	redo-documentation	Approved	Good progress	Sandbox-developers	mysql-sandbox-2.0
High	add-pluggable-tests-to-test-suite	Approved	Not started	Sandbox-developers	mysql-sandbox-2.0
Medium	allow-multiple-same-version-tarball	Approved	Not started	Sandbox-developers	mysql-sandbox-2.0
Medium	copy-data-between-sandboxes	Approved	Not started	Sandbox-developers	mysql-sandbox-2.0
Medium	create-multi-level-replication	Approved	Not started	Sandbox-developers	mysql-sandbox-2.0
Medium	detect-used-ports-before-installing	Approved	Not started	Sandbox-developers	mysql-sandbox-2.0
Medium	make-a-sandbox-permanent	Approved	Not started	Sandbox-developers	mysql-sandbox-2.0
Medium	add-multiple-proxies-for-each-server	New	Not started	Sandbox-developers	mysql-sandbox-2.0
Medium	add-one-proxy-for-each-server-in-cluster	New	Not started	Sandbox-developers	mysql-sandbox-2.0
Medium	add-sections-to-default-option-file	New	Not started	Sandbox-developers	mysql-sandbox-2.0
Medium	failover-script-for-replication	New	Not started	Sandbox-developers	mysql-sandbox-2.0
Low	allow-url-for-tarball	Discussion	Not started	Giuseppe Maxia	
Low	remote-sandbox-installer	Discussion	Not started	Giuseppe Maxia	
Low	refactoring-for-internationalization	New	Unknown	Giuseppe Maxia	

> List all blueprints

> List documentation

> Assignments

> Register a blueprint

### Latest blueprints

- copy data between sandboxes
- convert a sandbox from temporary to permanent
- create multi-level replication systems
- create a failover script in replication to promote a slave to master
- allow the test suite to load and execute a customized test

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# THANKS

## Let's talk!

