

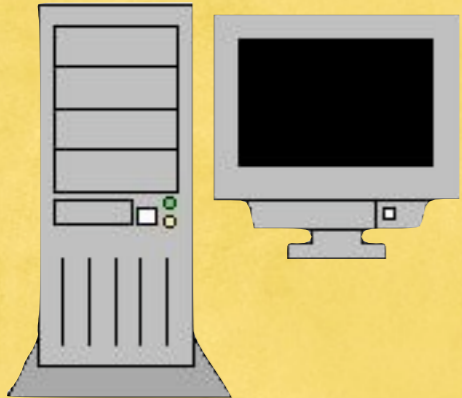
MySQL Sandbox

- one (unix) host
- many database servers
- single or multiple sandboxes
- installs **IN SECONDS**
- Free software (GPL)



<http://mysq1sandbox.net>

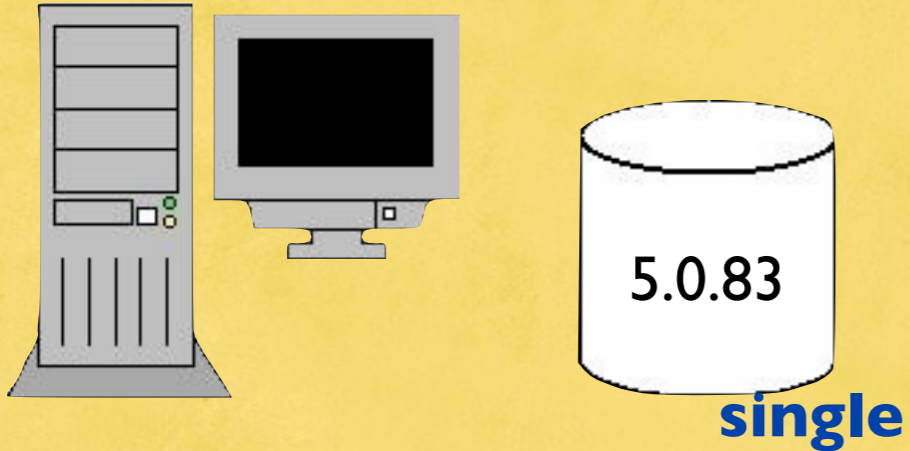
1 host - many servers



HOST



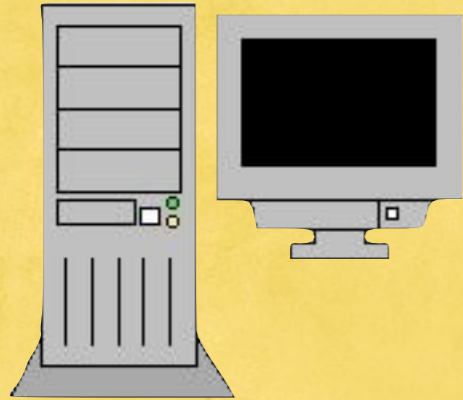
1 host - many servers



HOST



1 host - many servers



single

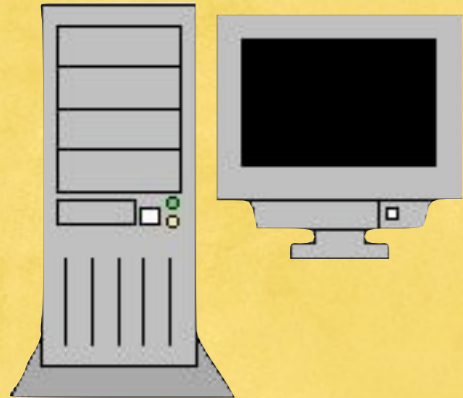


single

HOST



1 host - many servers



single



single

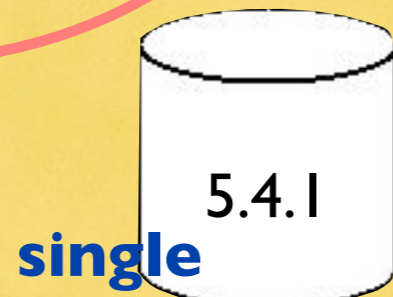
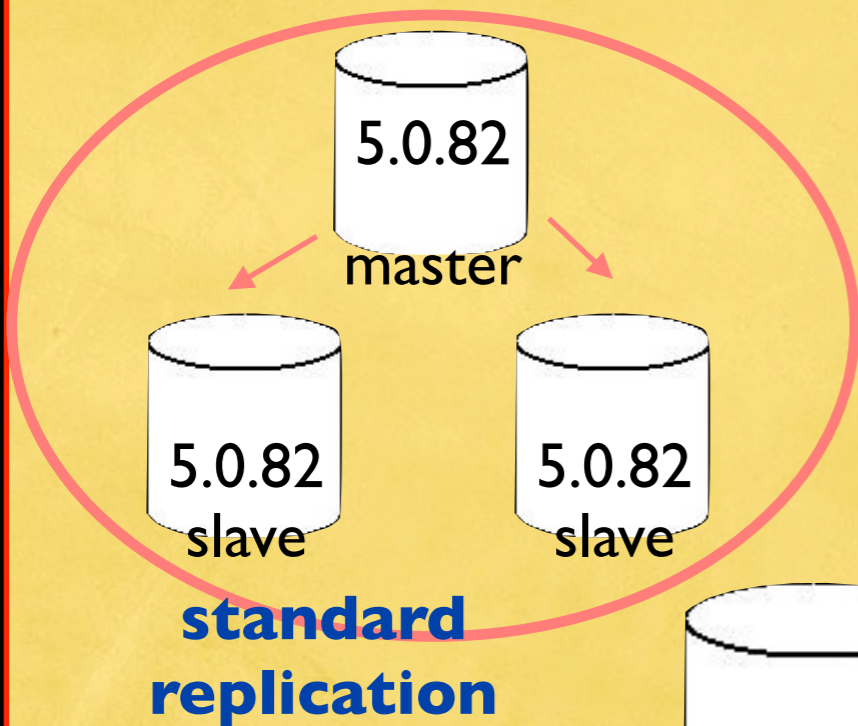
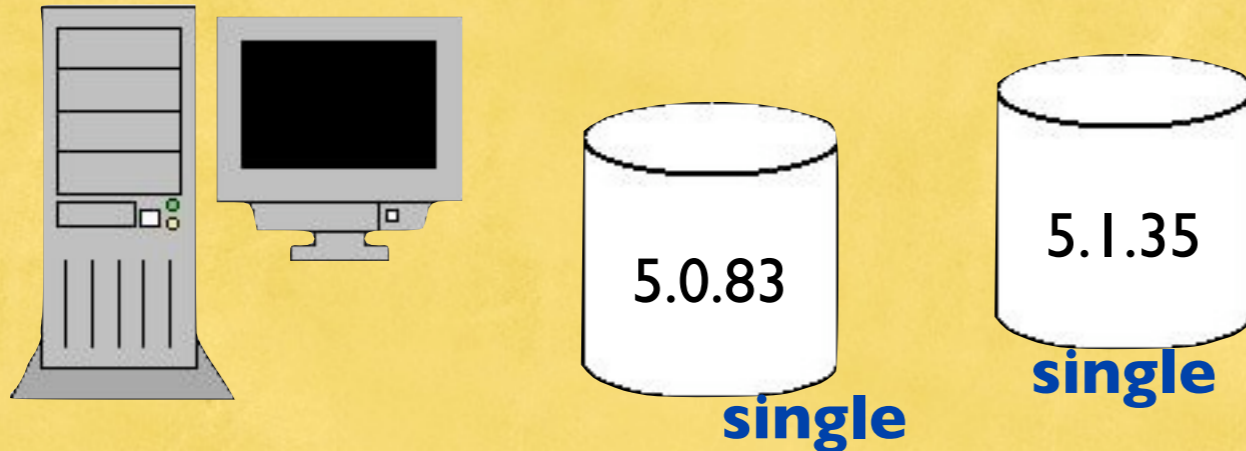


single

HOST



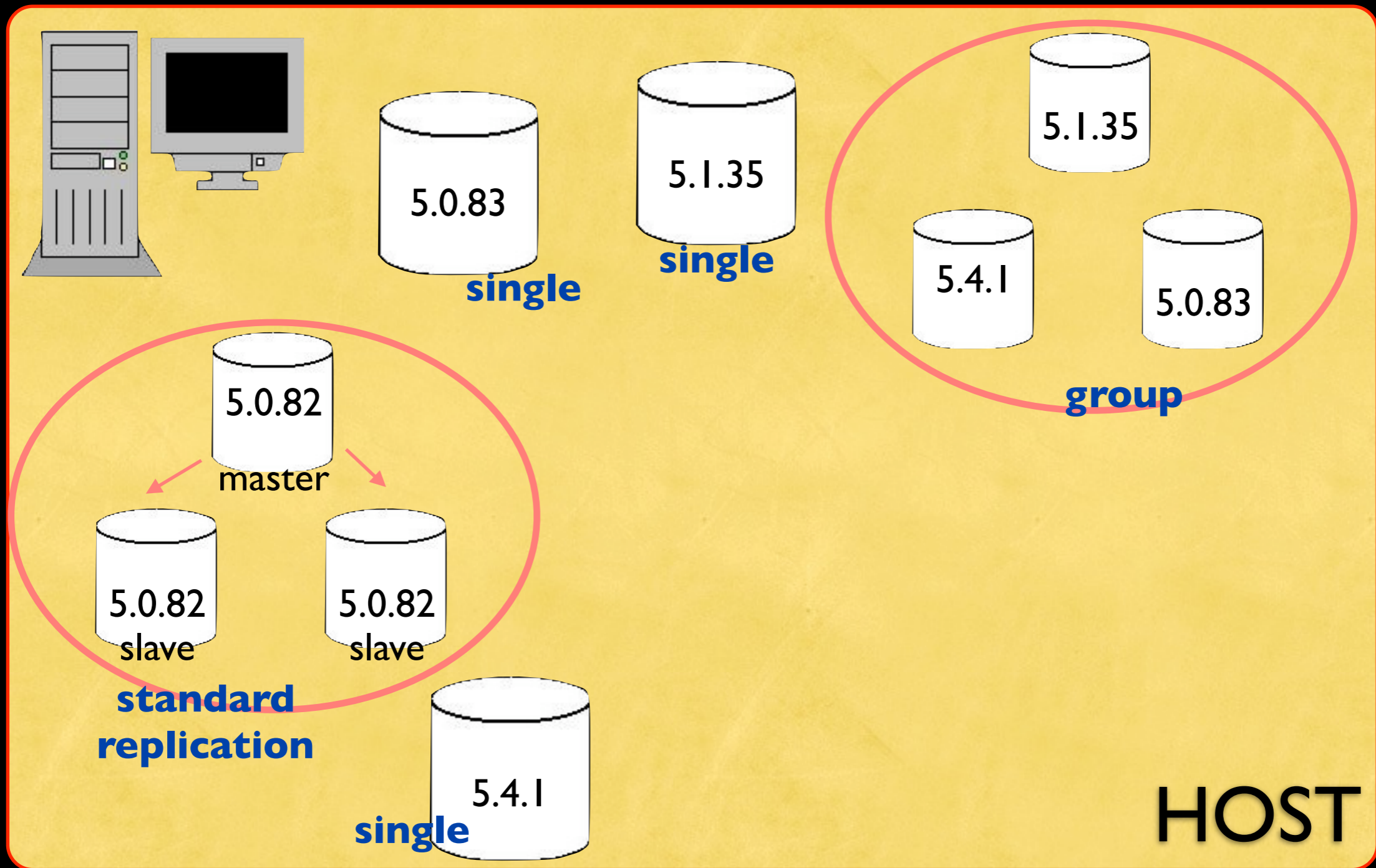
1 host - many servers



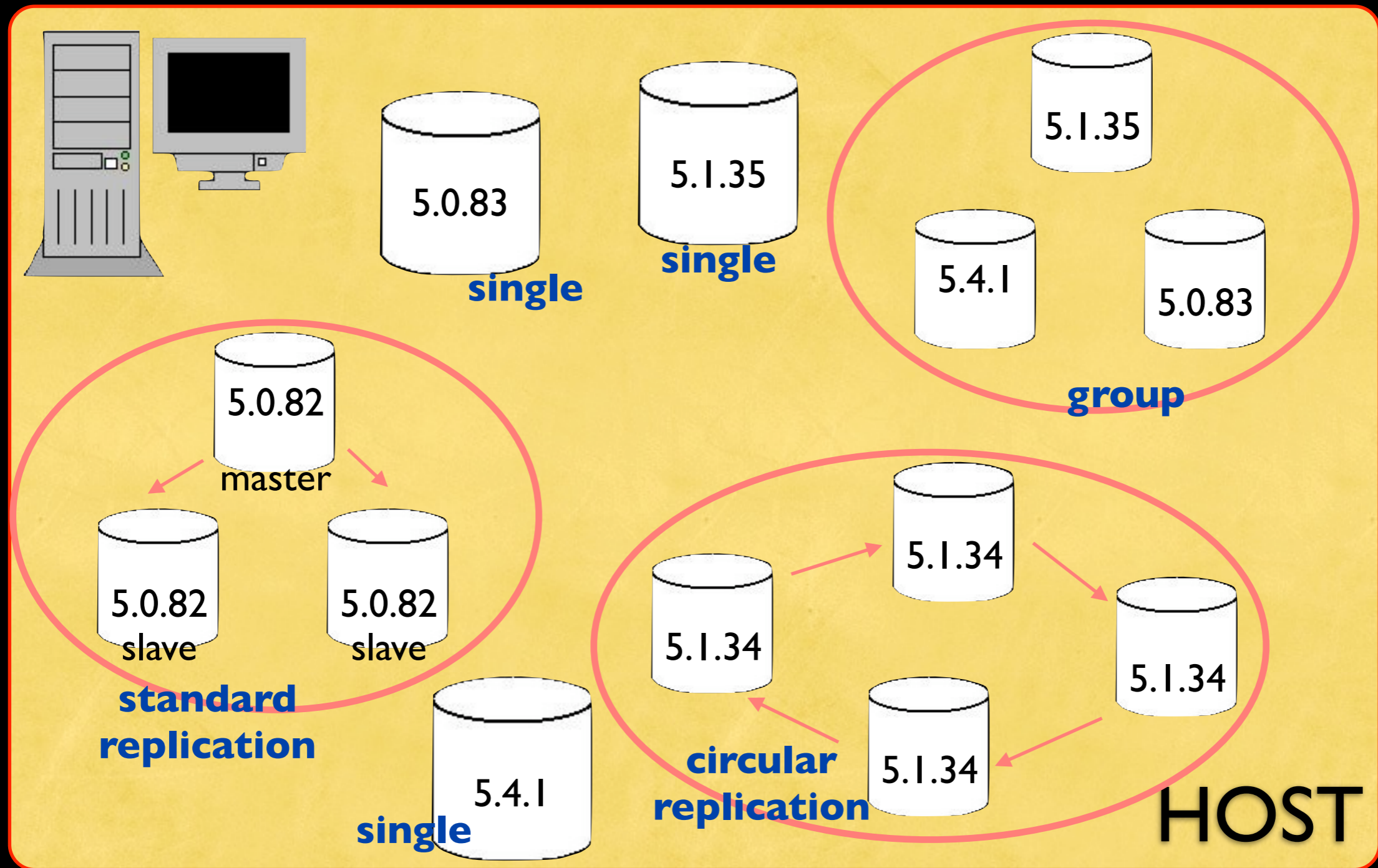
HOST



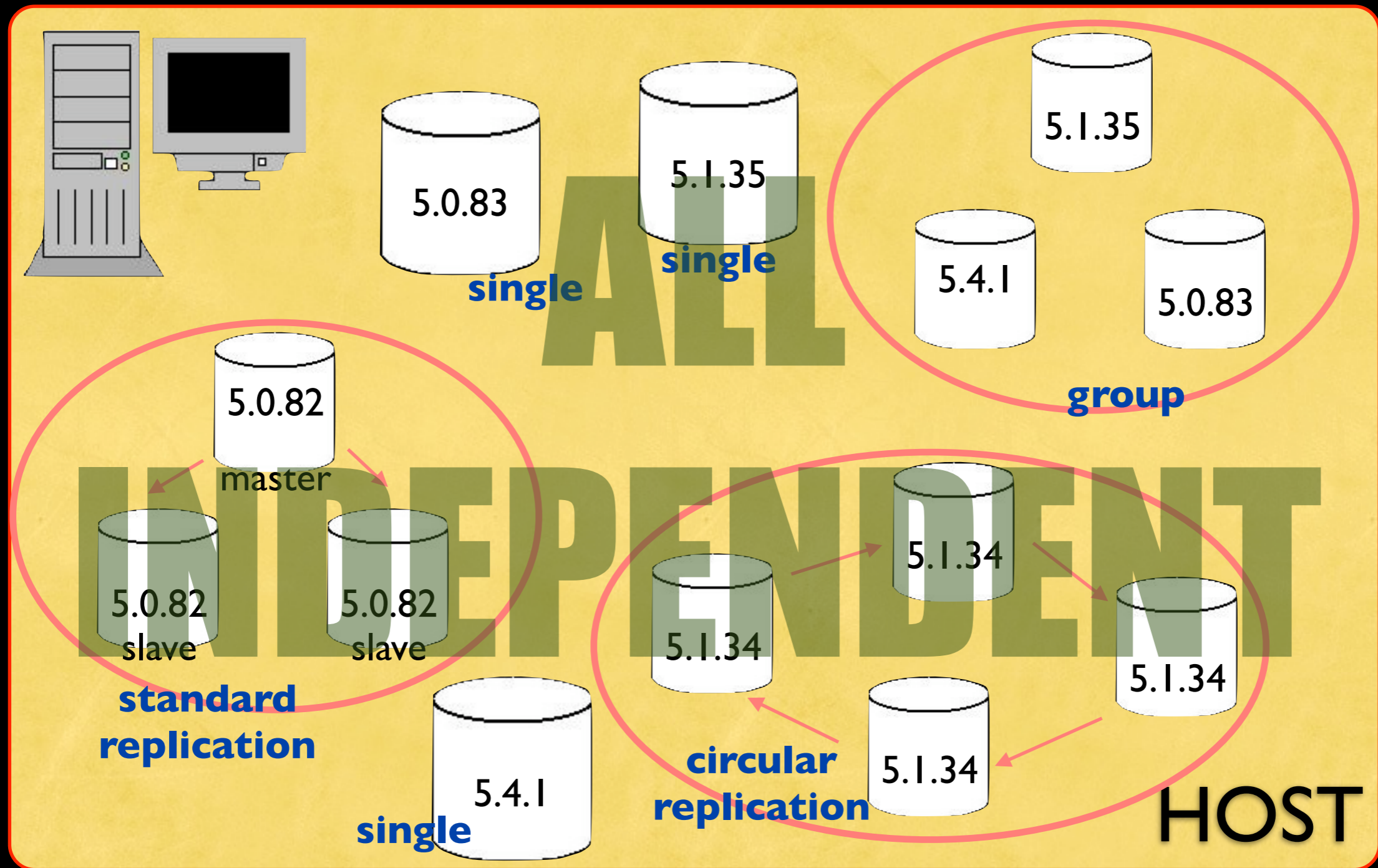
1 host - many servers



1 host - many servers



1 host - many servers



Installation

- as root

```
# cpan MySQL::Sandbox
```



Creating a single sandbox

- as normal user

```
# make_sandbox \
```

```
/path/to/mysql-5.1.35-YOUROS.gz
```



Creating a single sandbox

- as normal user

```
# make_sandbox \
```

```
  /path/to/mysql-5.1.35-YOUROS.gz
```

- if you have expanded tarballs already



Creating a single sandbox

- as normal user

```
# make_sandbox \
```

```
  /path/to/mysql-5.1.35-YOUROS.gz
```

- if you have expanded tarballs already

```
# make_sandbox 5.1.35
```



Creating a single sandbox

- as normal user

```
# make_sandbox \
```

```
/path/to/mysql-5.1.35-YOUROS.gz
```

< **10 seconds!**

- if you have expanded tarballs already

```
# make_sandbox 5.1.35
```



Creating a replication sandbox

- as normal user

```
# make_replication_sandbox \
```

```
  /path/to/mysql-5.1.35-YOUROS.gz
```



Creating a replication sandbox

- as normal user

```
# make_replication_sandbox \  
/path/to/mysql-5.1.35-YOUROS.gz
```

- if you have expanded tarballs already



Creating a replication sandbox

- as normal user

```
# make_replication_sandbox \  
    /path/to/mysql-5.1.35-YOUROS.gz
```

- if you have expanded tarballs already

```
# make_replication_sandbox 5.1.35
```



Creating a replication sandbox

- as normal user

```
# make_replication_sandbox \
```

```
  /path/to/mysql-5.1.35-YOUROS.gz
```

< **20 seconds!**

- if you have expanded tarballs already

```
# make_replication_sandbox 5.1.35
```



SHORTCUT - Creating and Using a sandbox



SHORTCUT - Creating and Using a sandbox

- as normal user (requires version 3.0.04)



SHORTCUT - Creating and Using a sandbox

- as normal user (requires version 3.0.04)

sb 5.0.83



SHORTCUT - Creating and Using a sandbox

- as normal user (requires version 3.0.04)

sb 5.0.83

< 5 seconds!



example

```
$ make_sandbox 5.0.82
```

```
[...]
```

```
. sandbox server started
```

```
Your sandbox server was installed in
```

```
$SANDBOX_HOME/msb_5_0_82
```

```
$ $SANDBOX_HOME/msb_5_0_82/use \  
-e "select version()"
```

```
+-----+  
| version() |  
+-----+  
| 5.0.82    |  
+-----+
```

example (shortcut)

```
$ time sb 5.0.82 -e "select version()"
```

```
[...]
```

```
. sandbox server started
```

```
Your sandbox server was installed in
```

```
$SANDBOX_HOME/msb_5_0_82
```

```
+-----+  
| version() |  
+-----+  
| 5.0.82    |  
+-----+
```

```
real    0m2.041s
```

```
user    0m0.290s
```

```
sys     0m0.210s
```

example replication

```
$ make_replication_sandbox 5.0.82
```

```
[...]
```

```
replication directory installed on  
$SANDBOX_HOME/rsandbox_5_0_82
```

```
$ $SANDBOX_HOME/rsandbox_5_8_82/m \  
-e "select version()"
```

```
+-----+  
| version() |  
+-----+  
| 5.0.82    |  
+-----+
```

example replication (shortcut)

```
$ time sb r5.0.82 -e "select version()"
```

```
[...]
```

```
replication directory installed in $HOME/  
rsandbox_5_0_82
```

```
+-----+  
| version() |  
+-----+  
| 5.0.82-log |  
+-----+
```

```
real    0m4.682s  
user    0m0.795s  
sys     0m0.585s
```

more control with replication

```
$ cd $SANDBOX_HOME/rsandbox_5_8_82
$ ./use_all "SELECT @@server_id"
# master
@@server_id
1
# server: 1:
@@server_id
101
# server: 2:
@@server_id
102
```


Self contained

- All sandboxes are created inside \$SANDBOX_HOME
- Use all at once
- Great control



<http://mysqlsandbox.net>