

# Banco de Dados



**Colocando a  
teoria em pratica**



# Configurando um servidor MySQL



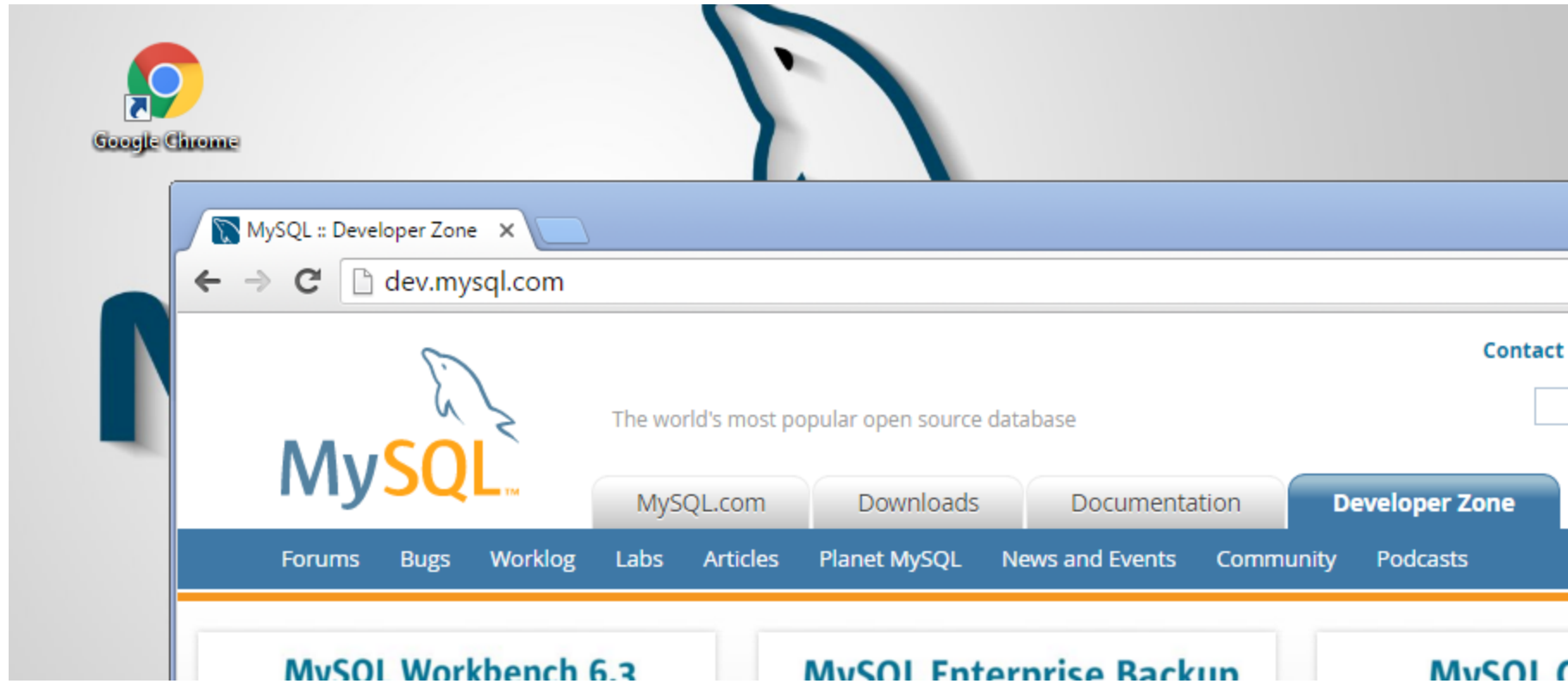


# Configurando um servidor MySQL





# Configurando um servidor MySQL





# Configurando um servidor MySQL



[MySQL Downloads »](#)

## MySQL on Windows (Installer & Tools)

(Current Generally Available Release: 5.7.11)

MySQL provides you with a suite of tools for developing and managing MySQL-based business critical applications on Windows.

[DOWNLOAD](#)



# Configurando um servidor MySQL



## MySQL on Windows

MySQL provides you with a suite of tools for developing and managing business critical applications on Windows.

### MySQL Installer

MySQL Installer provides an easy to use, wizard-based installation experience for all MySQL software on Windows.

### MySQL Connectors

MySQL offers industry standard database driver connectivity for using MySQL with applications and tools.

### MySQL Workbench

MySQL Workbench provides DBAs and developers an integrated tools environment for database design, administration, SQL development and database migration.

MySQL open source software is provided under the [GPL License](#).

OEMs, ISVs and VARs can purchase commercial licenses.

#### Choosing the right file:

- If you have an online connection while running the MySQL Installer, choose the `mysql-installer-web-community` file.
- If you do NOT have an online connection while running the MySQL Installer, choose the `mysql-installer-community` file.

**Note:** MySQL Installer is 32 bit, but will install both 32 bit and 64 bit binaries.



# Configurando um servidor MySQL



**Generally Available (GA) Releases**


## MySQL Installer 5.7.11

Select Platform:

Microsoft Windows ▼

Looking for previous GA versions?

<b>Windows (x86, 32-bit), MSI Installer</b> (mysql-installer-web-community-5.7.11.0.msi)	5.7.11	1.6M	<a href="#">Download</a>
MD5: f1347e051cda240b59728629d2ea2670   <a href="#">Signature</a>			
<b>Windows (x86, 32-bit), MSI Installer</b> (mysql-installer-community-5.7.11.0.msi)	5.7.11	377.9M	<a href="#">Download</a>
MD5: 1d7f2a70c419e04f11353f495a4c8d7f   <a href="#">Signature</a>			

 We suggest that you use the [MD5 checksums](#) and [GnuPG signatures](#) to verify the integrity of the packages you download.



# Configurando um servidor MySQL



## Begin Your Download - mysql-installer-community-5.7.11.0.msi

**Login Now or Sign Up for a free account.**

An Oracle Web Account provides you with the following advantages:

- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- Report and track bugs in the MySQL bug system
- Comment in the MySQL Documentation

**Login »**

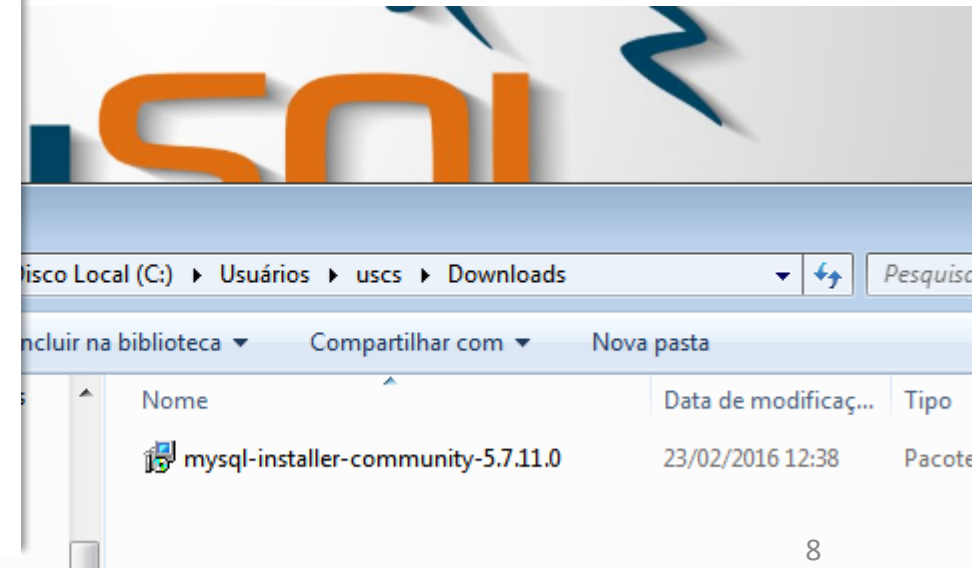
using my Oracle Web account

**Sign Up »**

for an Oracle Web account

MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.

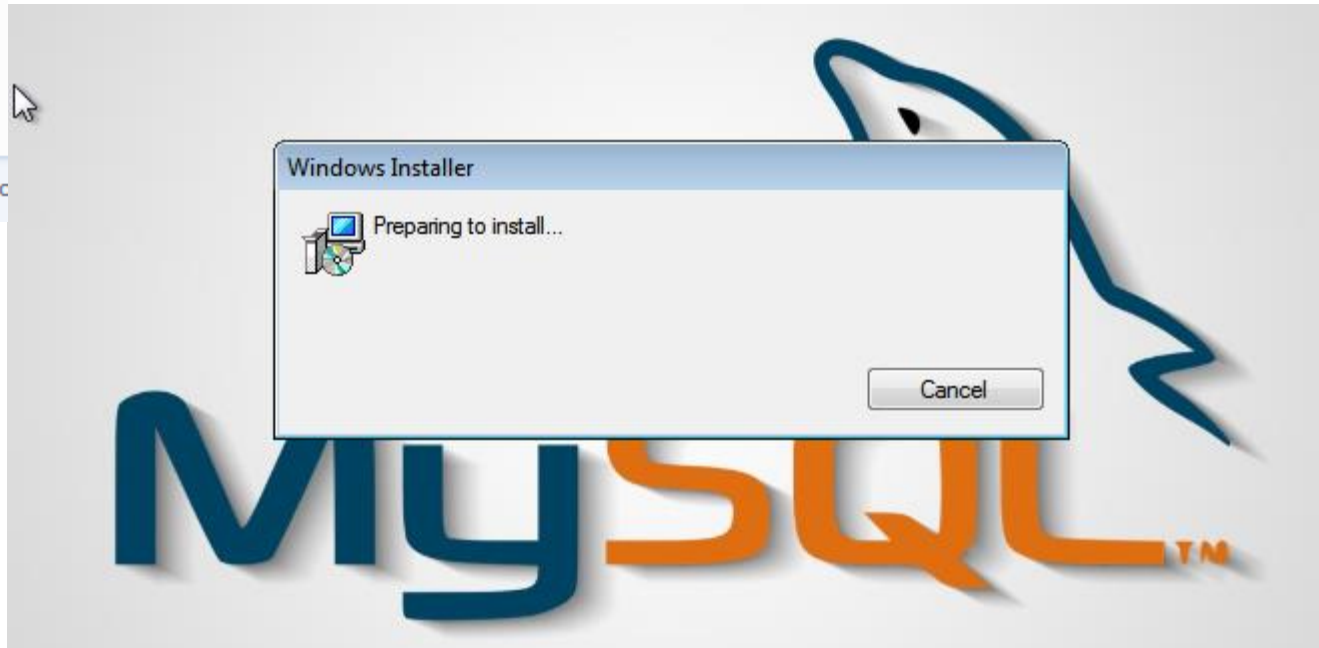
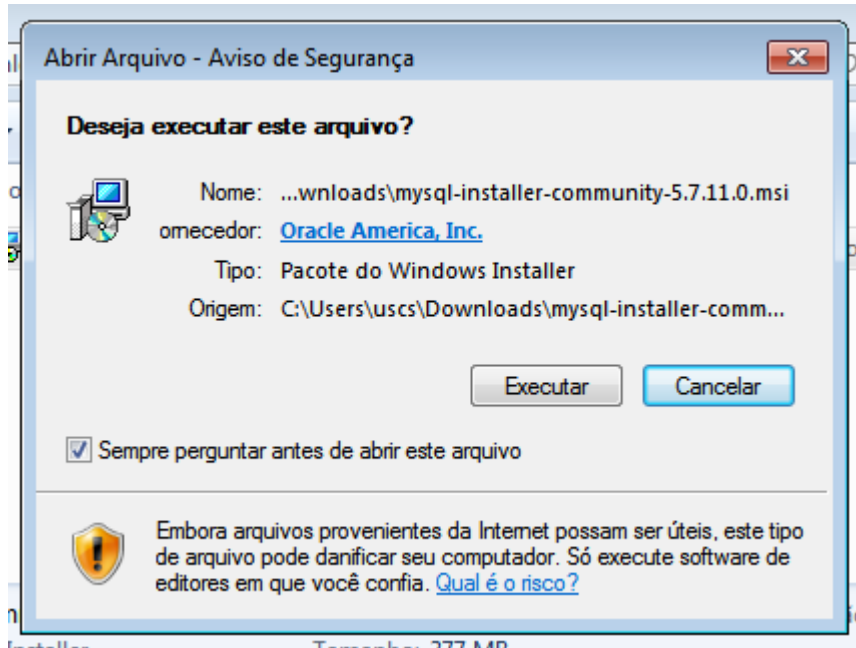
[No thanks, just start my download.](#)





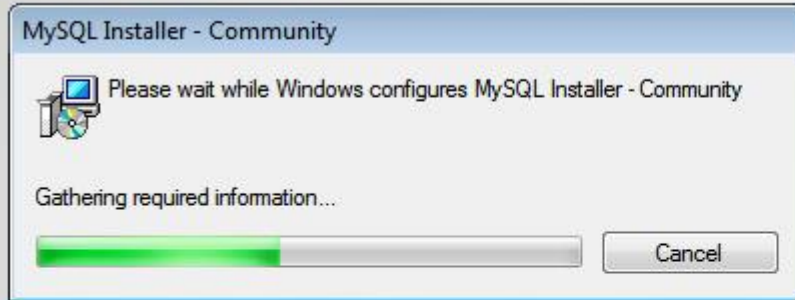


# Configurando um servidor MySQL

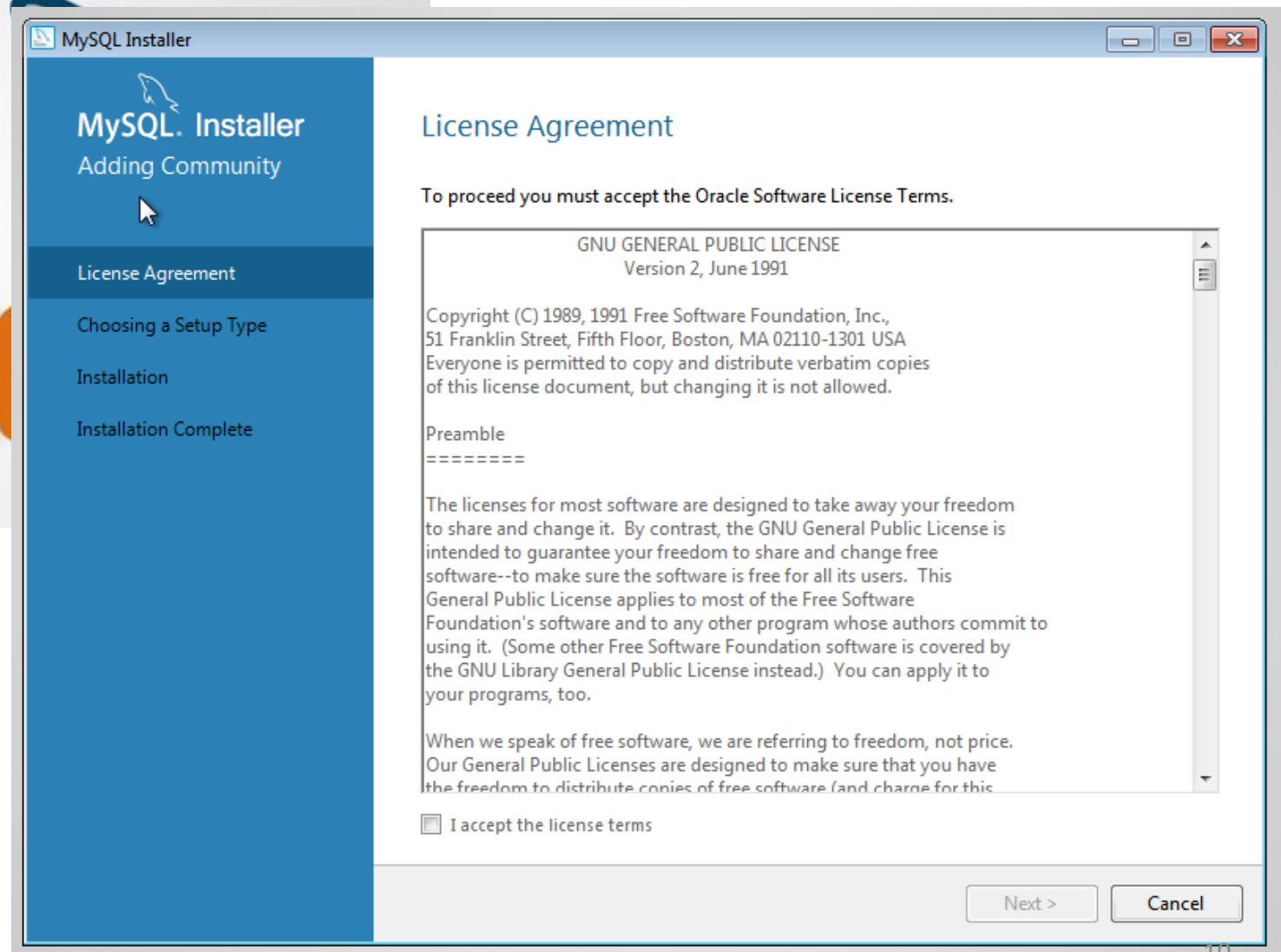




# Configurando um servidor MySQL

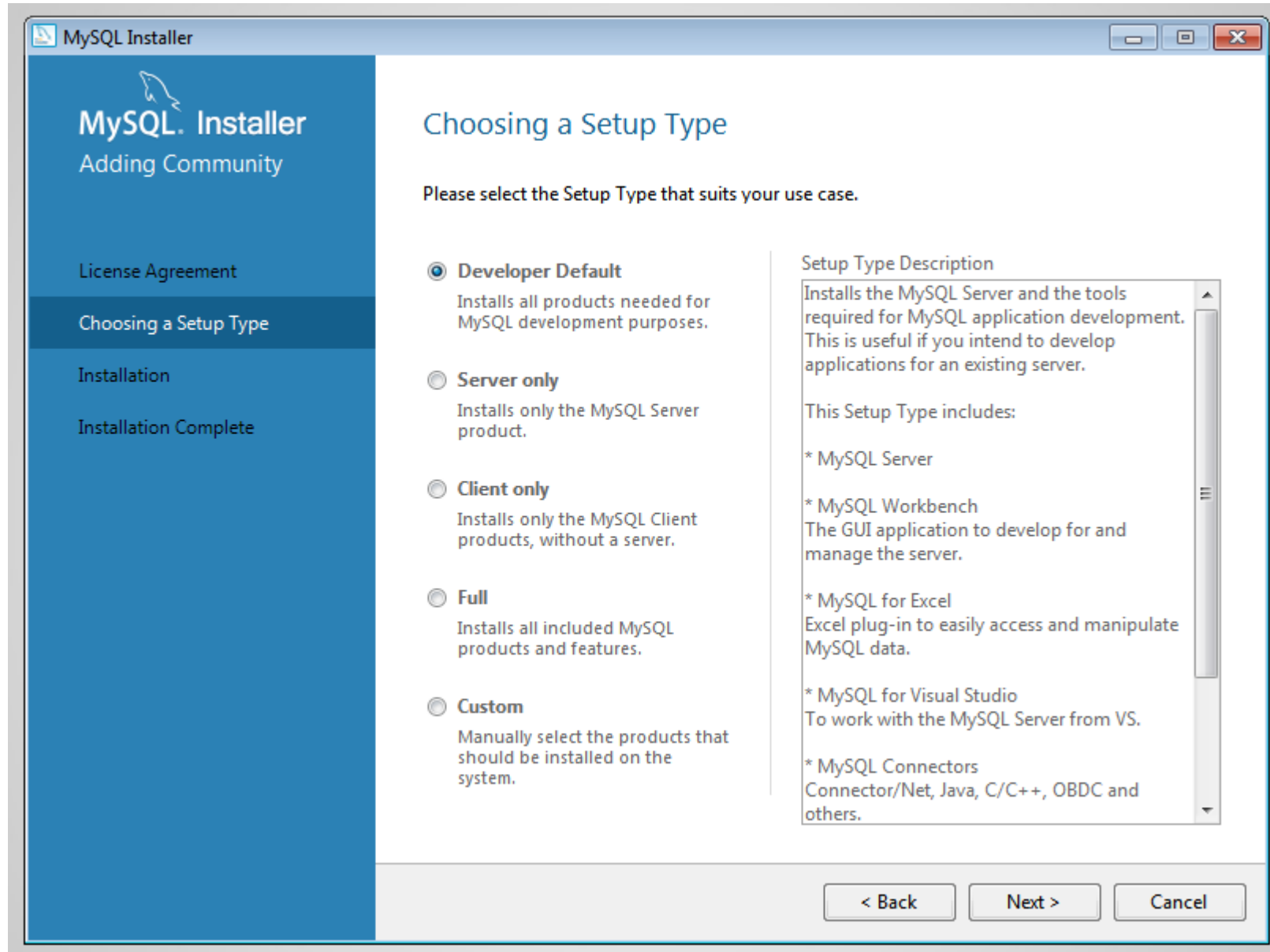


# MySQL



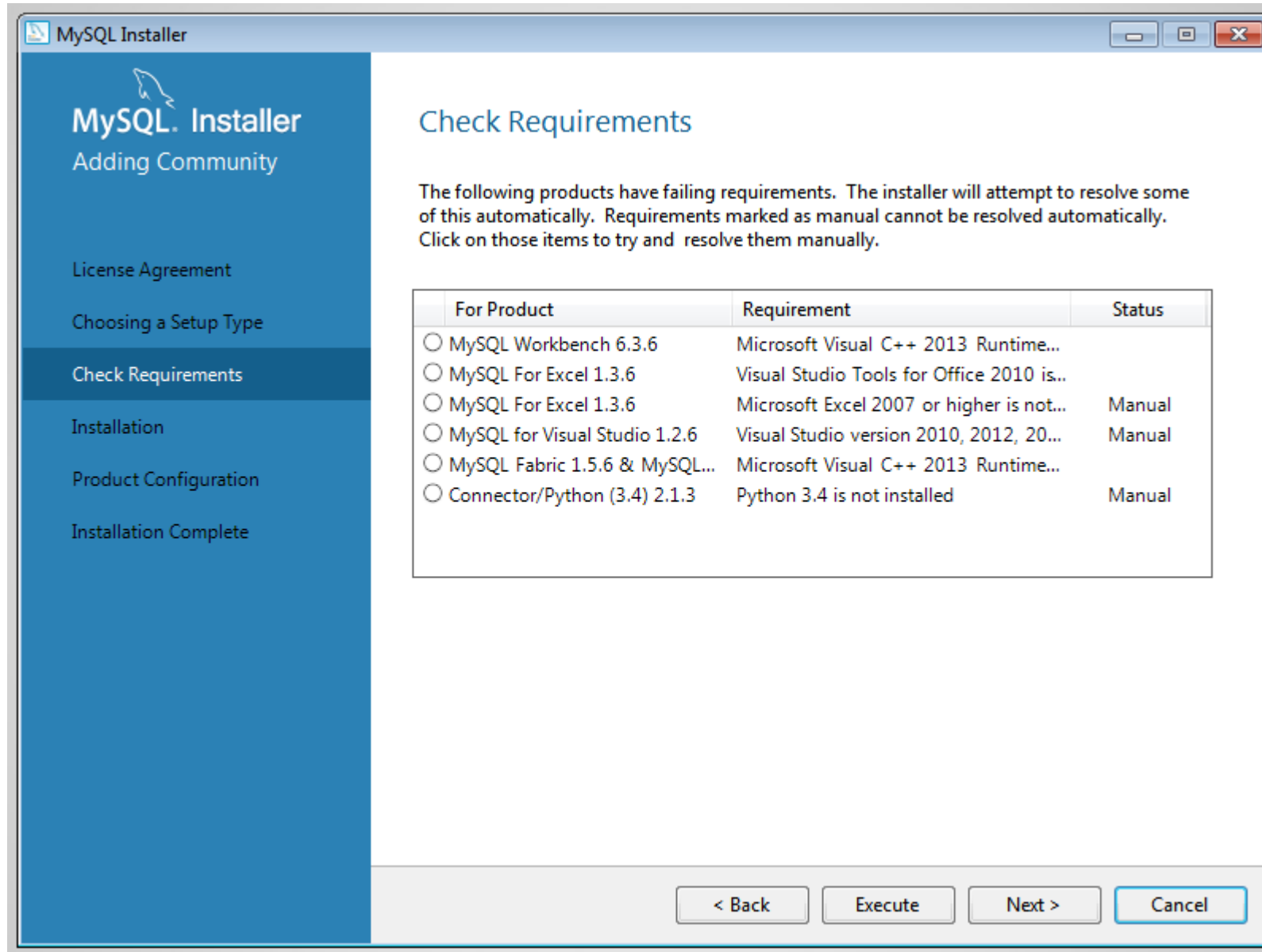


# Configurando um servidor MySQL



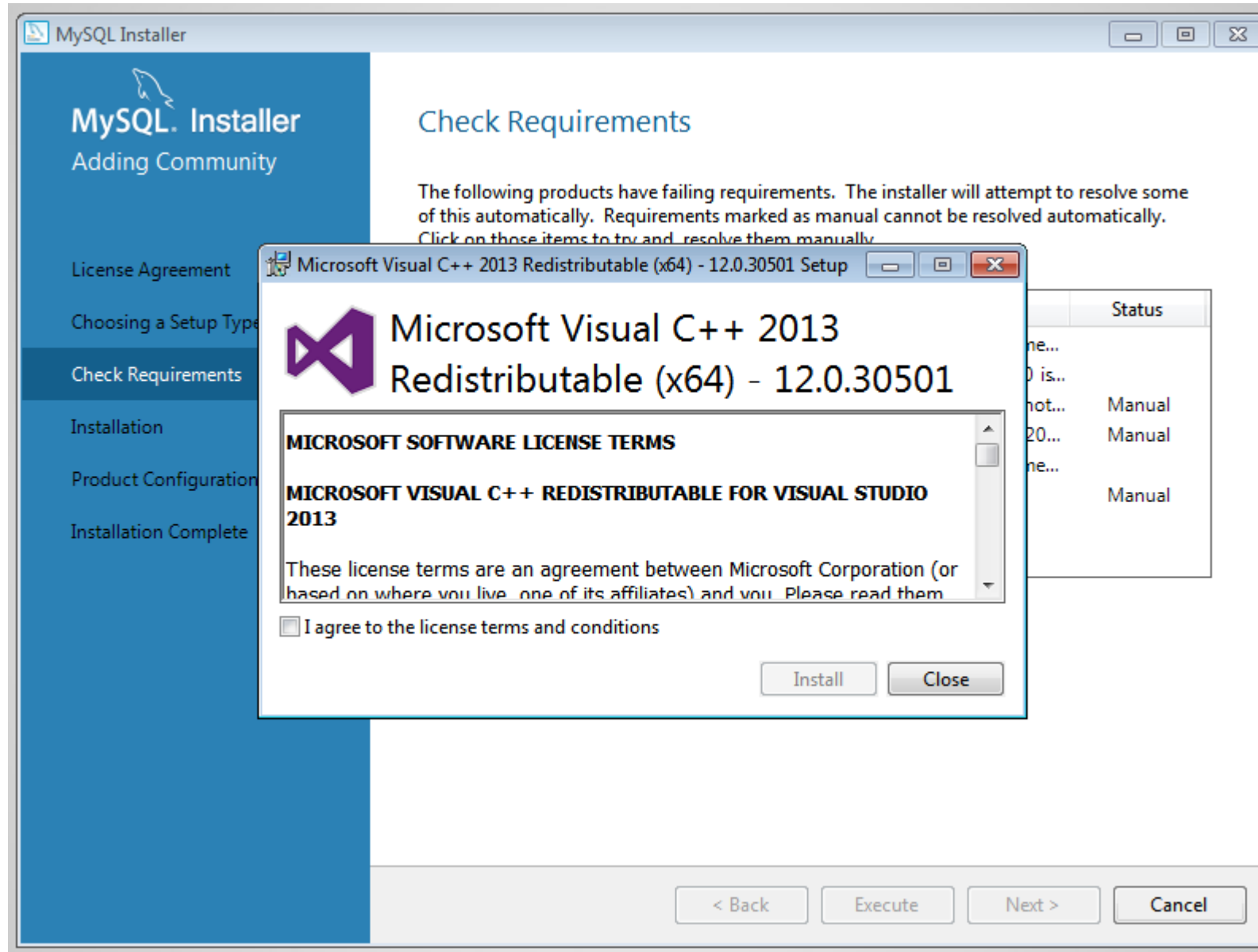


# Configurando um servidor MySQL



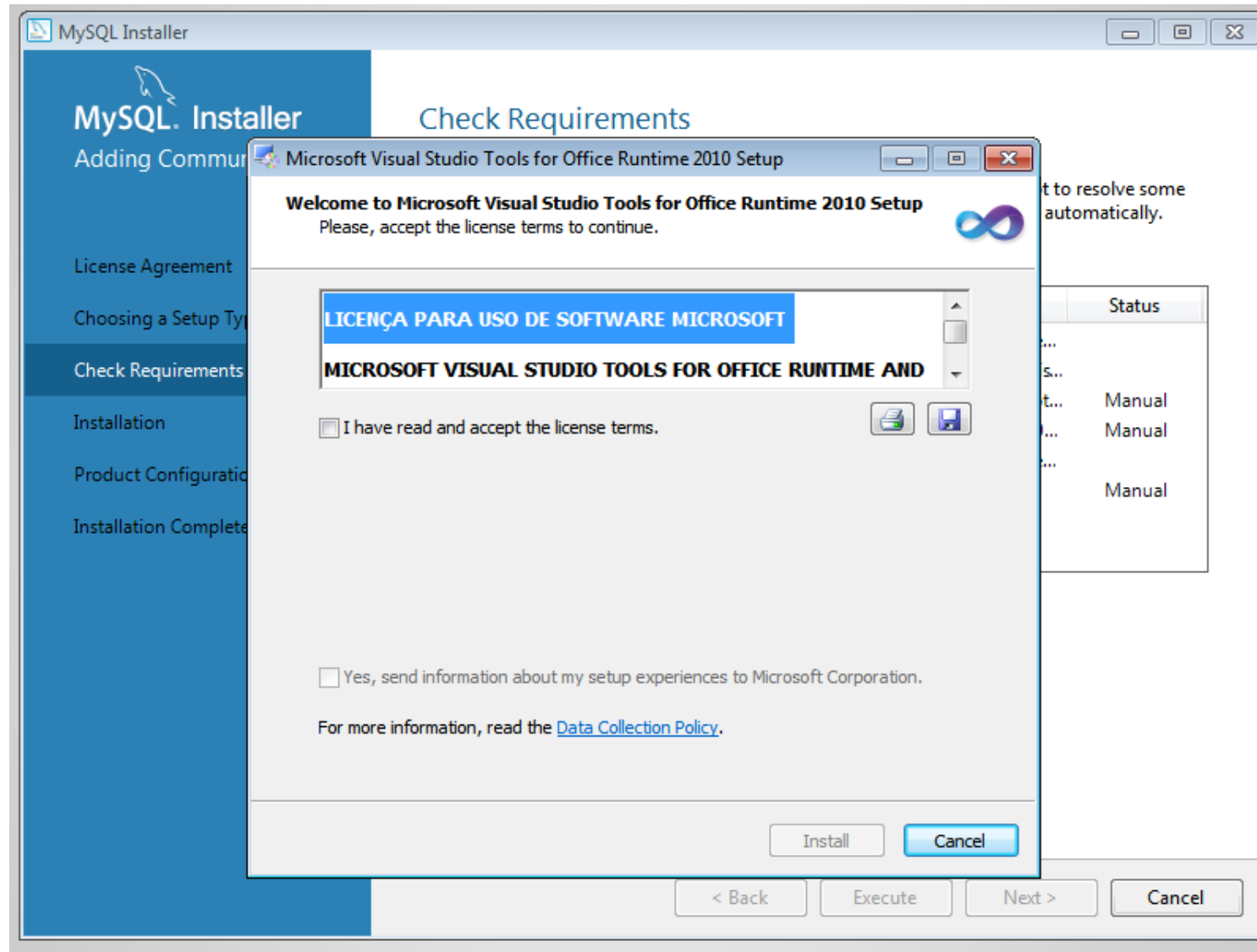


# Configurando um servidor MySQL



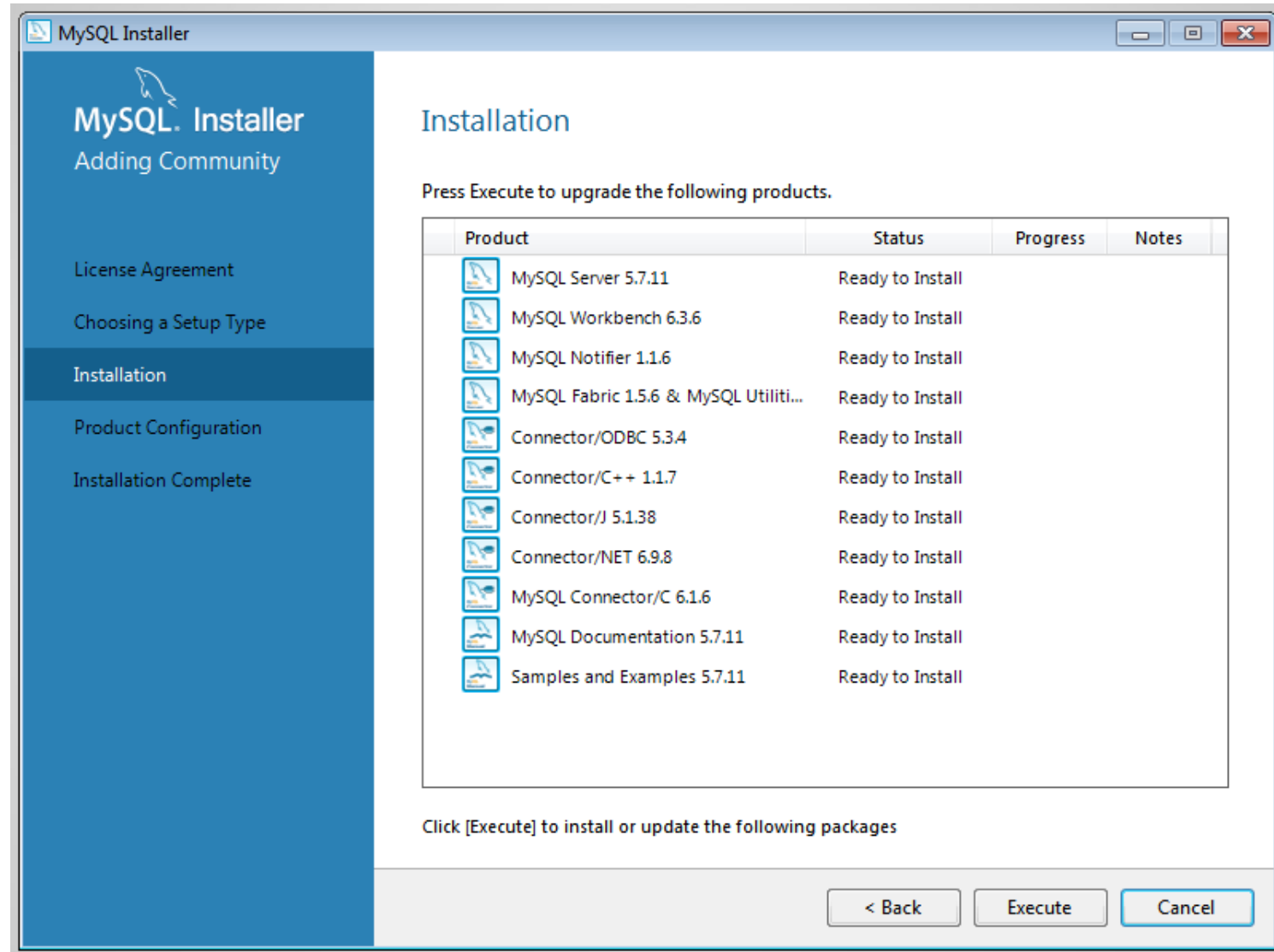


# Configurando um servidor MySQL





# Configurando um servidor MySQL





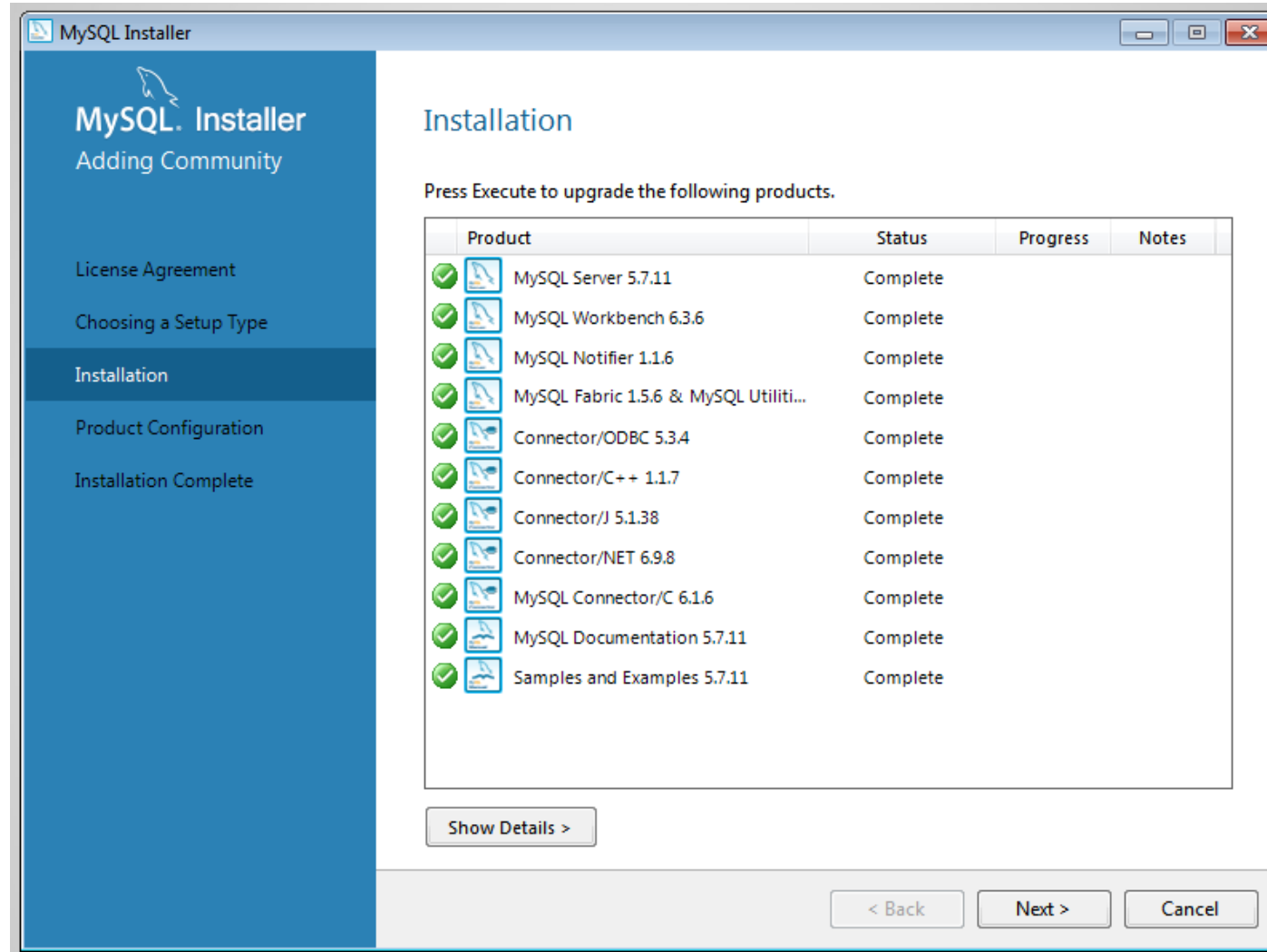
# Configurando um servidor MySQL





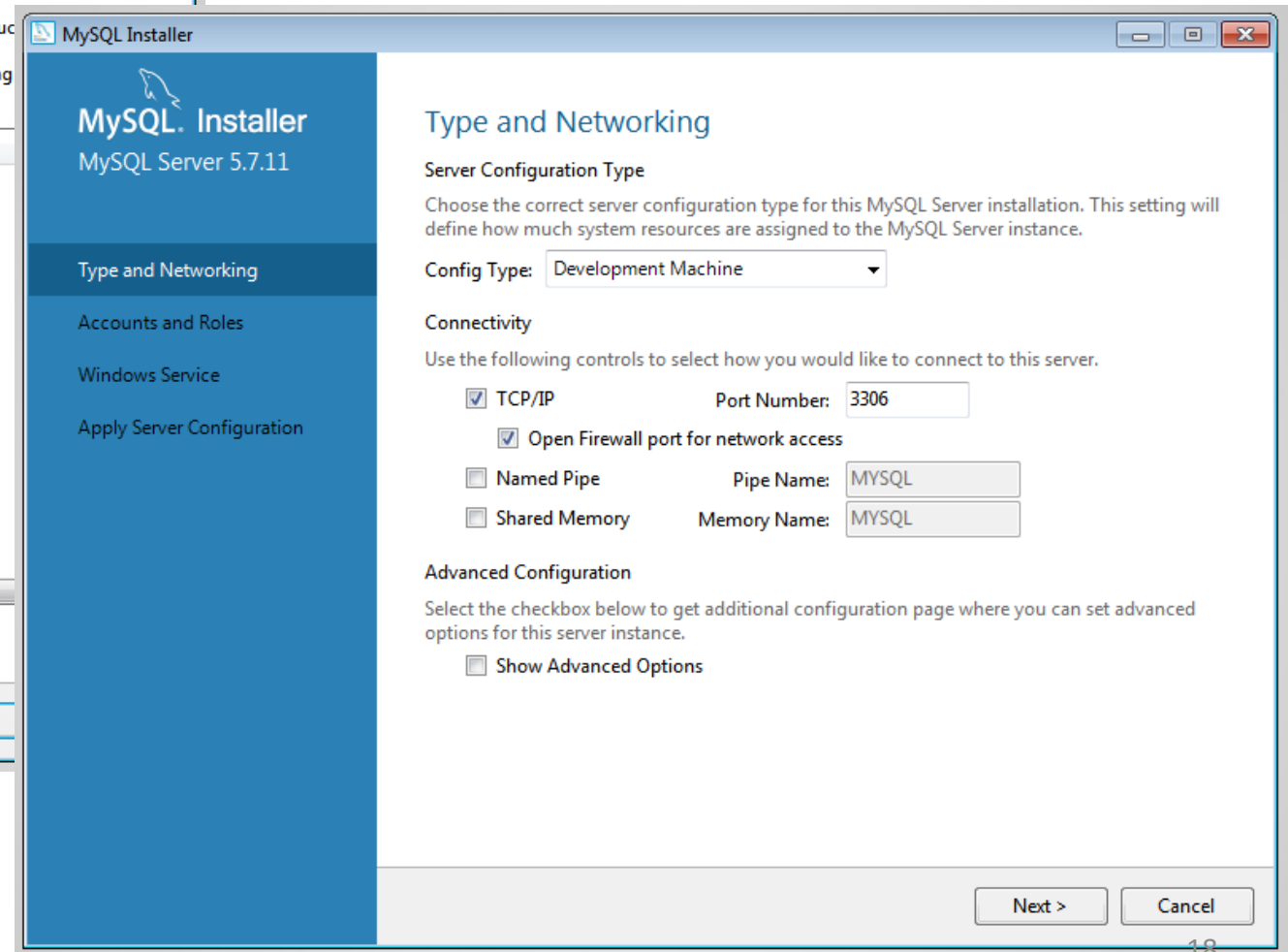
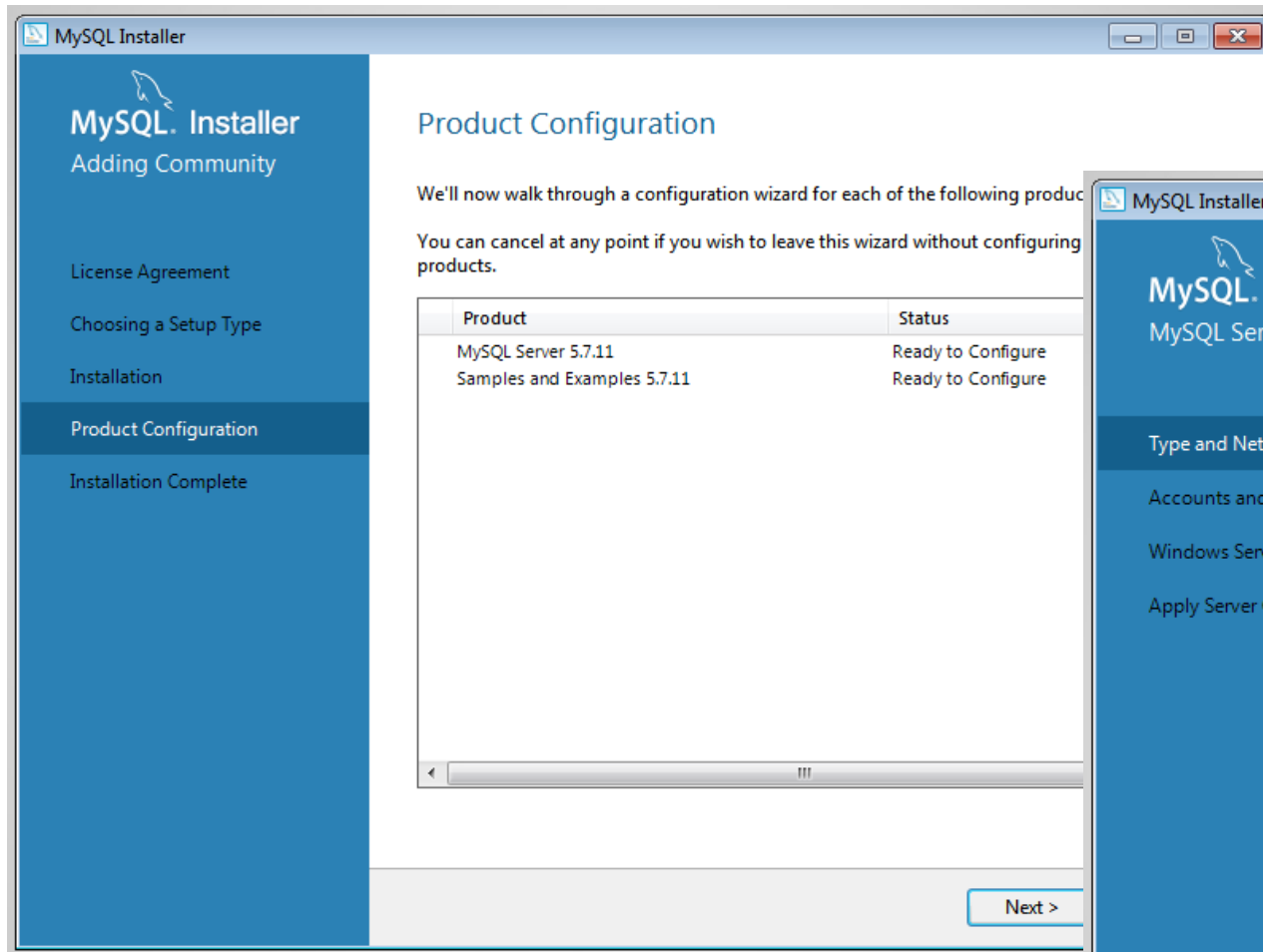


# Configurando um servidor MySQL





# Configurando um servidor MySQL





# Configurando um servidor MySQL



**MySQL. Installer**  
MySQL Server 5.7.11

Type and Networking

Accounts and Roles

Windows Service

Apply Server Configuration

### Accounts and Roles

**Root Account Password**  
Enter the password for the root account. Please remember to store this password in a safe place.

MySQL Root Password:

Repeat Password:

Password Strength: **Weak**

**MySQL User Accounts**  
Create MySQL user accounts for your users and applications. Assign a role to the user. A user role consists of a set of privileges.

MySQL Username	Host	User Role

< Back   Next >

**MySQL. Installer**  
MySQL Server 5.7.11

Type and Networking

Accounts and Roles

Windows Service

Apply Server Configuration

### Windows Service

☒ Configure MySQL Server as a Windows Service

**Windows Service Details**  
Please specify a Windows Service name to be used for this MySQL Server instance. A unique name is required for each instance.

Windows Service Name:

☒ Start the MySQL Server at System Startup

**Run Windows Service as ...**  
The MySQL Server needs to run under a given user account. Based on the security requirements of your system you need to pick one of the options below.

☒ Standard System Account  
Recommended for most scenarios.

☐ Custom User  
An existing user account can be selected for advanced scenarios.

< Back   Next >   Cancel



# Configurando um servidor MySQL



MySQL Installer  
MySQL Server 5.7.11

Type and Networking  
Accounts and Roles  
Windows Service  
Apply Server Configuration

### Apply Server Configuration

Press [Execute] to apply the changes

Configuration Steps [Log](#)

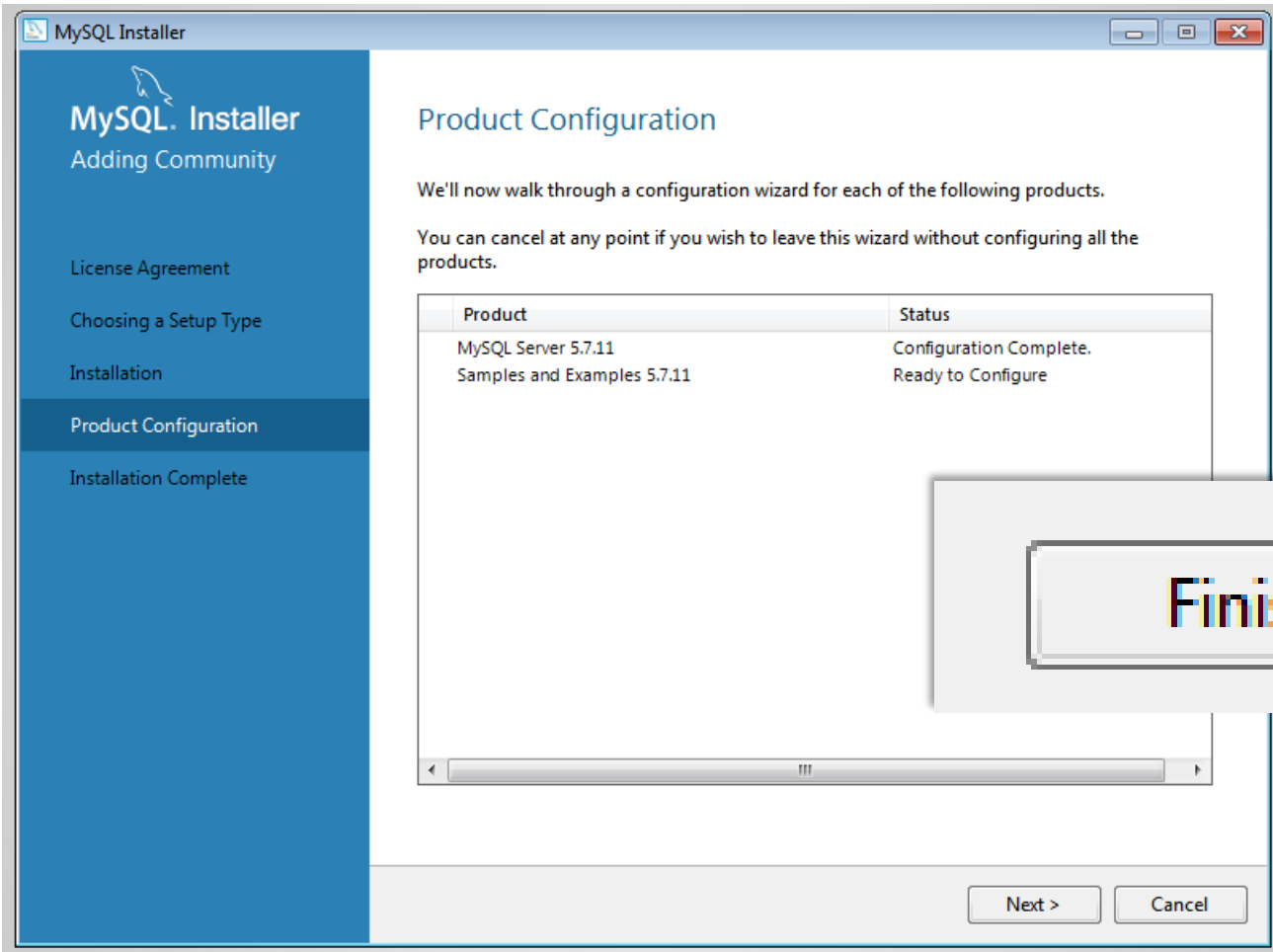
- ☐ Stopping Server [if necessary]
- ☐ Writing configuration file
- ☐ Updating firewall
- ☐ Adjusting Windows service [if necessary]
- ☐ Initializing Database [if necessary]
- ☐ Starting Server
- ☐ Applying security settings
- ☐ Creating user accounts
- ☐ Updating Start Menu Link

< Back Execute Cancel

**Service Status Changed**  
Service MySQL57 changed status from Stopped to StartPending...



# Configurando um servidor MySQL



finalmente



# Configurando um servidor MySQL



MySQL Installer

MySQL. Installer  
Samples and Examples

Connect To Server

Apply Server Configuration

## Connect To Server

Here are the compatible servers installed. If more than one, please select one.

Server	Architecture	Status
MySQL Server 5.7.11	X64	Running

Now give us the credentials we should use (needs to have root privileges). Click check to make sure they work.

User:  Credentials provided in Server configuration

Password:

☒ Connection successful.

MySQL Installer

MySQL. Installer  
Samples and Examples

Connect To Server

Apply Server Configuration

## Apply Server Configuration

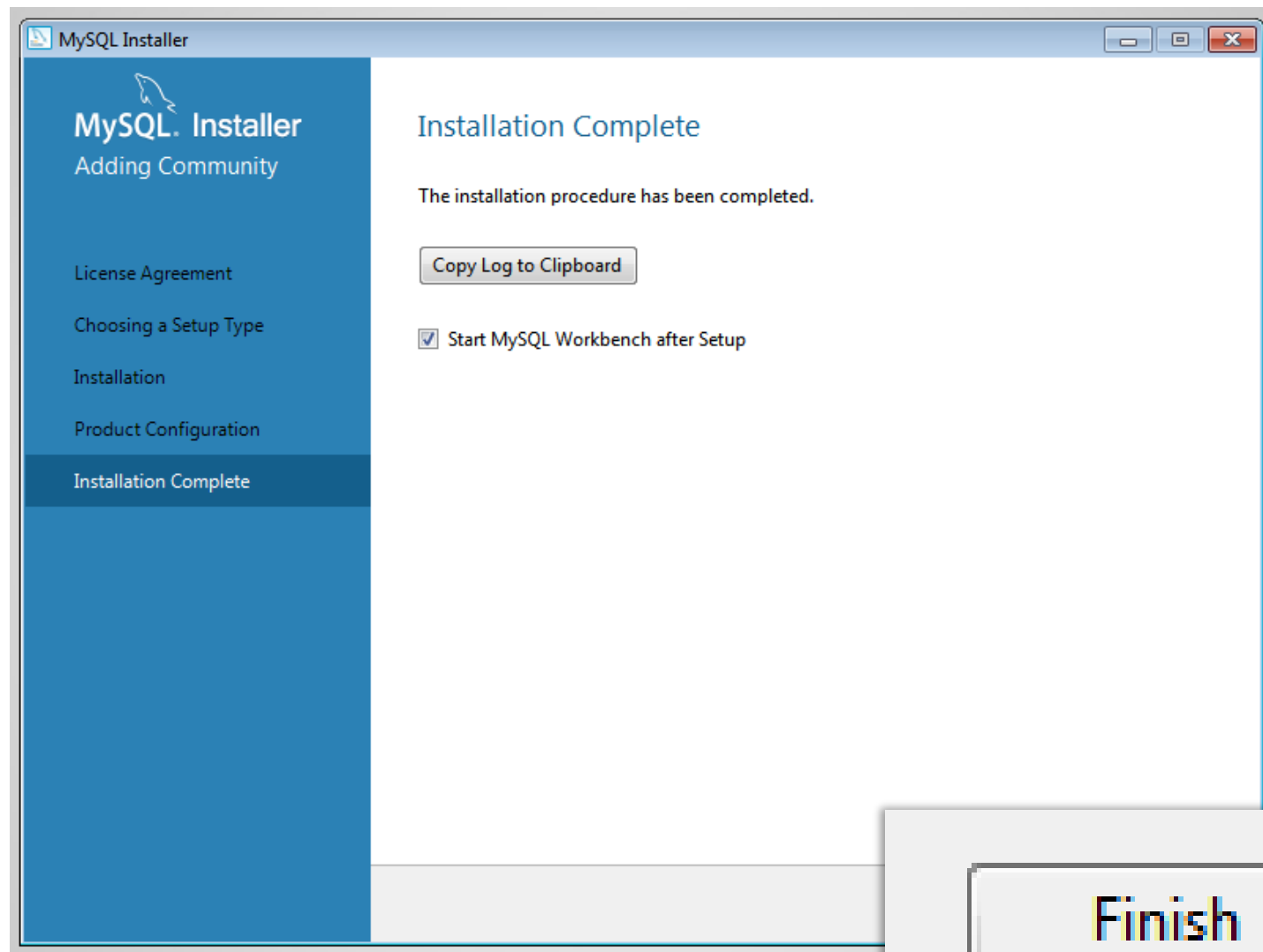
Press [Execute] to apply the changes

Configuration Steps

- ☐ Checking if there are any features installed that need configuration.
- ☐ Starting Server.
- ☐ Getting Connection information (Provide credentials if it is needed).
- ☐ Running Scripts.
- ☐ Stopping Server.

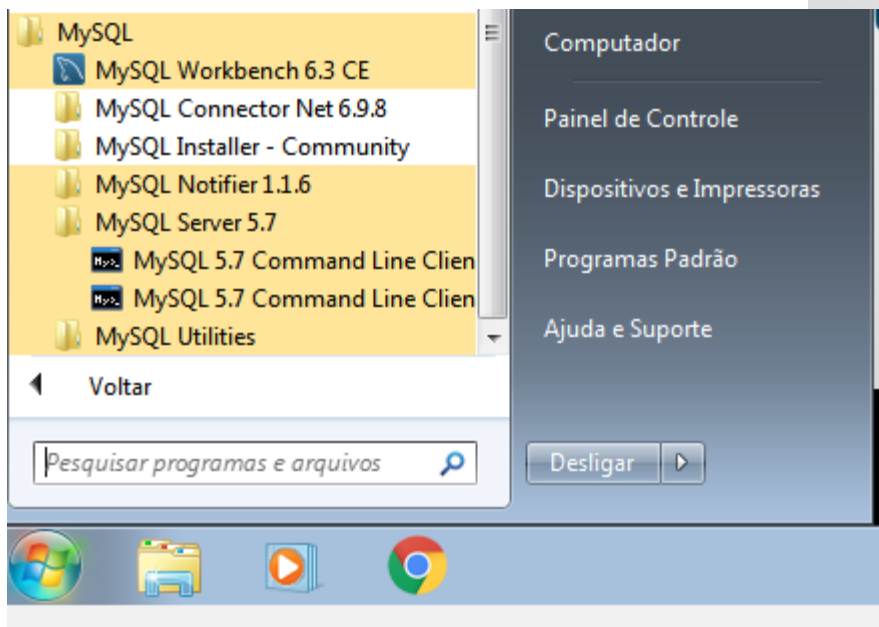


# Configurando um servidor MySQL





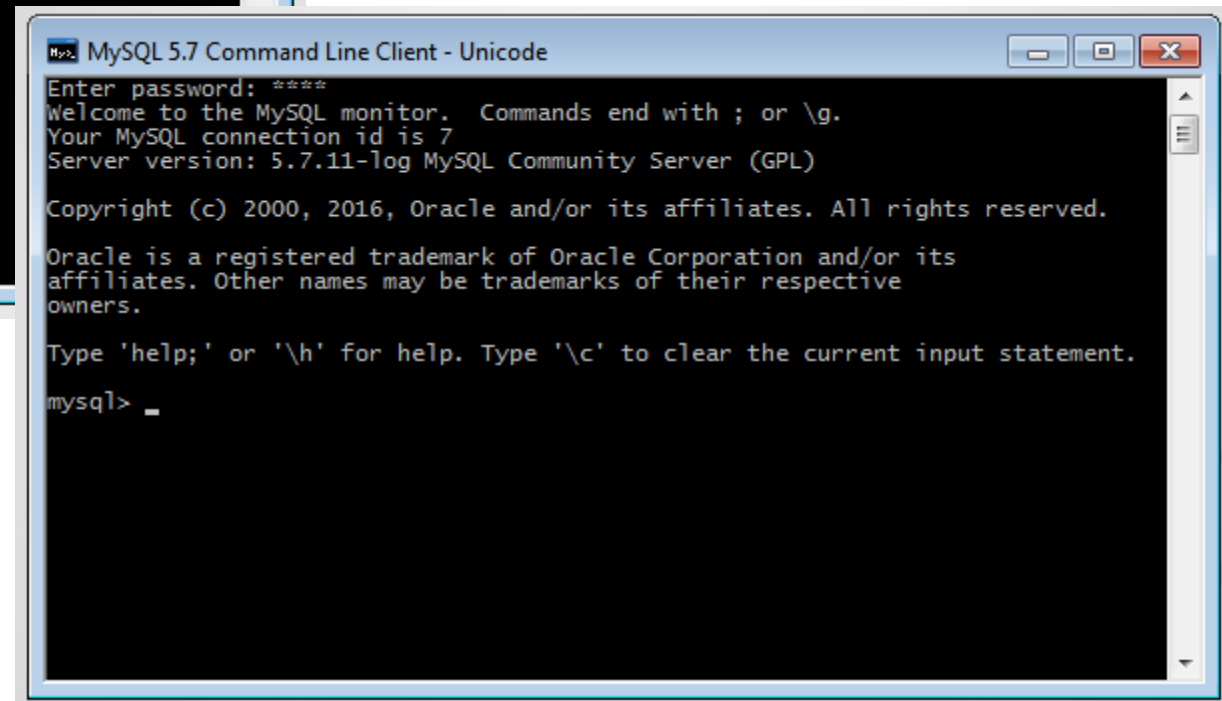
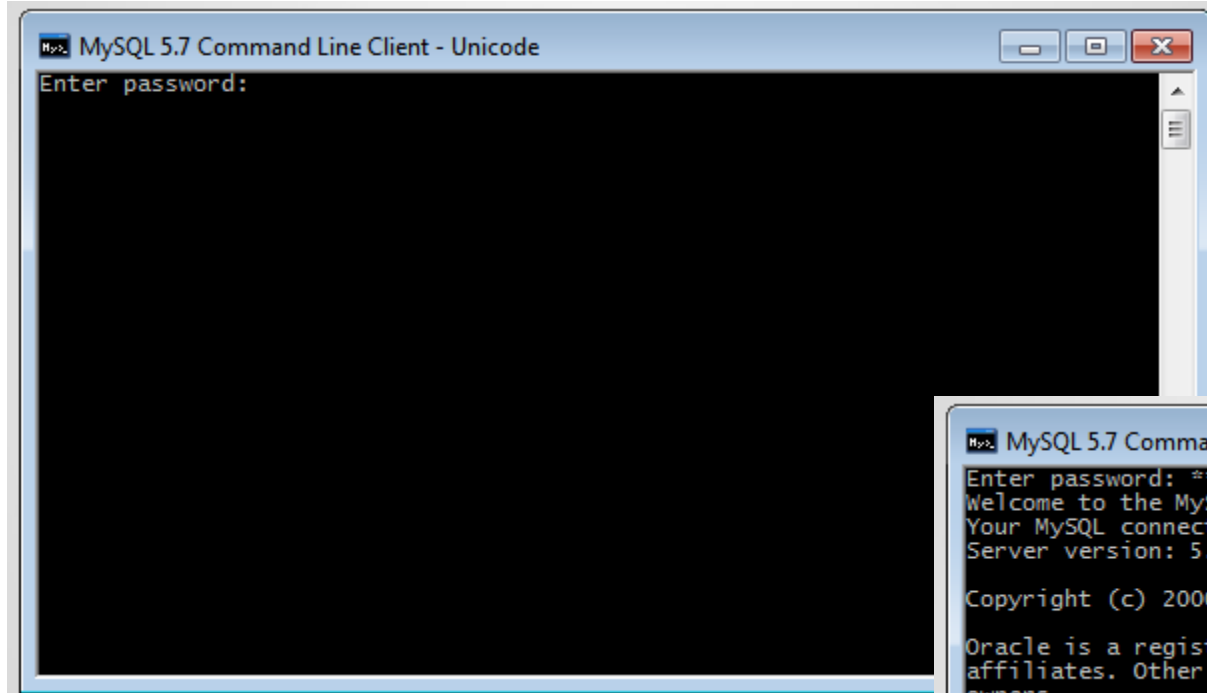
# Configurando um servidor MySQL







# Configurando um servidor MySQL





# Configurando um servidor MySQL



```
MySQL 5.7 Command Line Client - Unicode
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 5.7.11-log MySQL Community Server (GPL)

Copyright (c) 2000, 2016, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> status
```

```
MySQL 5.7 Command Line Client - Unicode
mysql> status
-----
C:\Program Files\MySQL\MySQL Server 5.7\bin\mysql.exe  Ver 14.14 Distrib 5.7.11,
for Win64 (x86_64)

Connection id:          8
Current database:
Current user:           root@localhost
SSL:                    Not in use
Using delimiter:        ;
Server version:         5.7.11-log MySQL Community Server (GPL)
Protocol version:       10
Connection:             localhost via TCP/IP
Server characterset:    utf8
Db characterset:        utf8
Client characterset:    utf8
Conn. characterset:     utf8
TCP port:               3306
Uptime:                 9 min 32 sec

Threads: 1  Questions: 6499  Slow queries: 0  Opens: 145  Flush tables: 1  Open
tables: 129  Queries per second avg: 11.361
-----
mysql>
```



# Configurando um servidor MySQL



```
MySQL 5.7 Command Line Client - Unicode
Your MySQL connection id is 9
Server version: 5.7.11-log MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
6 rows in set (0.00 sec)

mysql> _
```

```
MySQL 5.7 Command Line Client - Unicode

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affiliates. Other names may be trademarks of their respective
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
6 rows in set (0.00 sec)

mysql> use sakila
Database changed
mysql> _
```



# Configurando um servidor MySQL



```
MySQL 5.7 Command Line Client - Unicode
mysql> show tables;
+-----+
| Tables_in_sakila |
+-----+
| actor              |
| actor_info         |
| address            |
| category           |
| city               |
| country            |
| customer           |
| customer_list      |
| film               |
| film_actor         |
| film_category      |
| film_list          |
| film_text          |
| inventory           |
| language           |
| nicer_but_slower_film_list |
| payment            |
| rental             |
| sales_by_film_category |
| sales_by_store     |
| staff              |
+-----+
```

```
MySQL 5.7 Command Line Client - Unicode
film_list
film_text
inventory
language
nicer_but_slower_film_list
payment
rental
sales_by_film_category
sales_by_store
staff
staff_list
store
23 rows in set (0.00 sec)

mysql> describe actor;
+-----+
| Field      | Type                | Null | Key | Default        | Extra          |
+-----+
| actor_id   | smallint(5) unsigned | NO   | PRI | NULL           | auto_increment |
| first_name | varchar(45)          | NO   |     | NULL           |                |
| last_name  | varchar(45)          | NO   | MUL | NULL           |                |
| last_update | timestamp            | NO   |     | CURRENT_TIMESTAMP | on update CURRENT_TIMESTAMP |
+-----+
4 rows in set (0.00 sec)

mysql>
```



# Configurando um servidor MySQL



```
C:\Windows\system32\cmd.exe
Microsoft Windows [versão 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Todos os direitos reservados.

C:\Users\uscs>
```

```
C:\Windows\system32\cmd.exe
Microsoft Windows [versão 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Todos os direitos reservados.

C:\Users\uscs>mysql -h localhost -u root -p
'mysql' não é reconhecido como um comando interno
ou externo, um programa operável ou um arquivo em lotes.

C:\Users\uscs>_
```



# Configurando um servidor MySQL



```
C:\Windows\system32\cmd.exe
Microsoft Windows [versão 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Todos os direitos reservados.

C:\Users\uscs>mysql -h localhost -u root -p
'mysql' não é reconhecido como um comando interno
ou externo, um programa operável ou um arquivo em lotes.

C:\Users\uscs>cd "c:\Program Files\MySQL\MySQL Server 5.7\bin"
c:\Program Files\MySQL\MySQL Server 5.7\bin>_
```

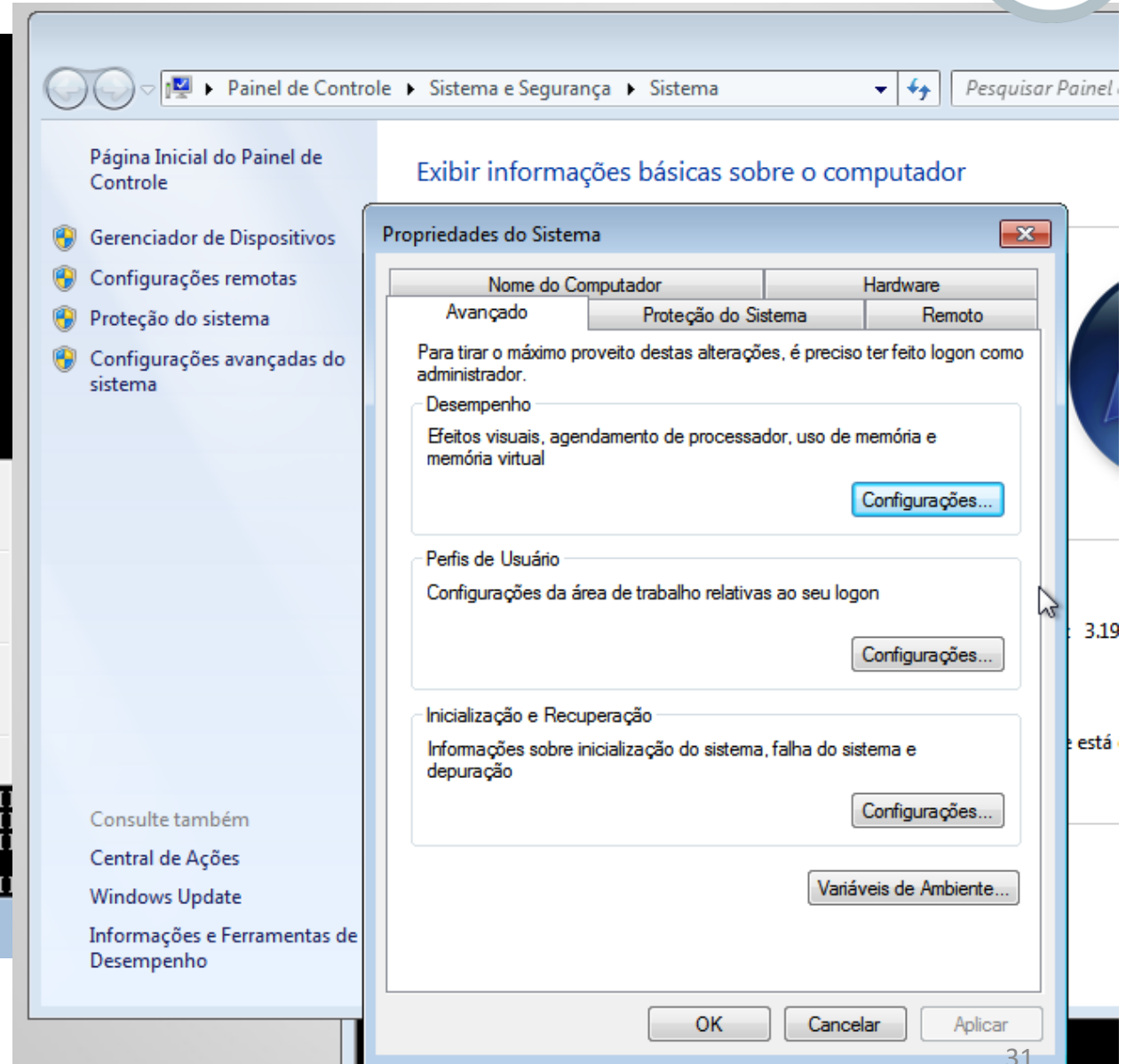
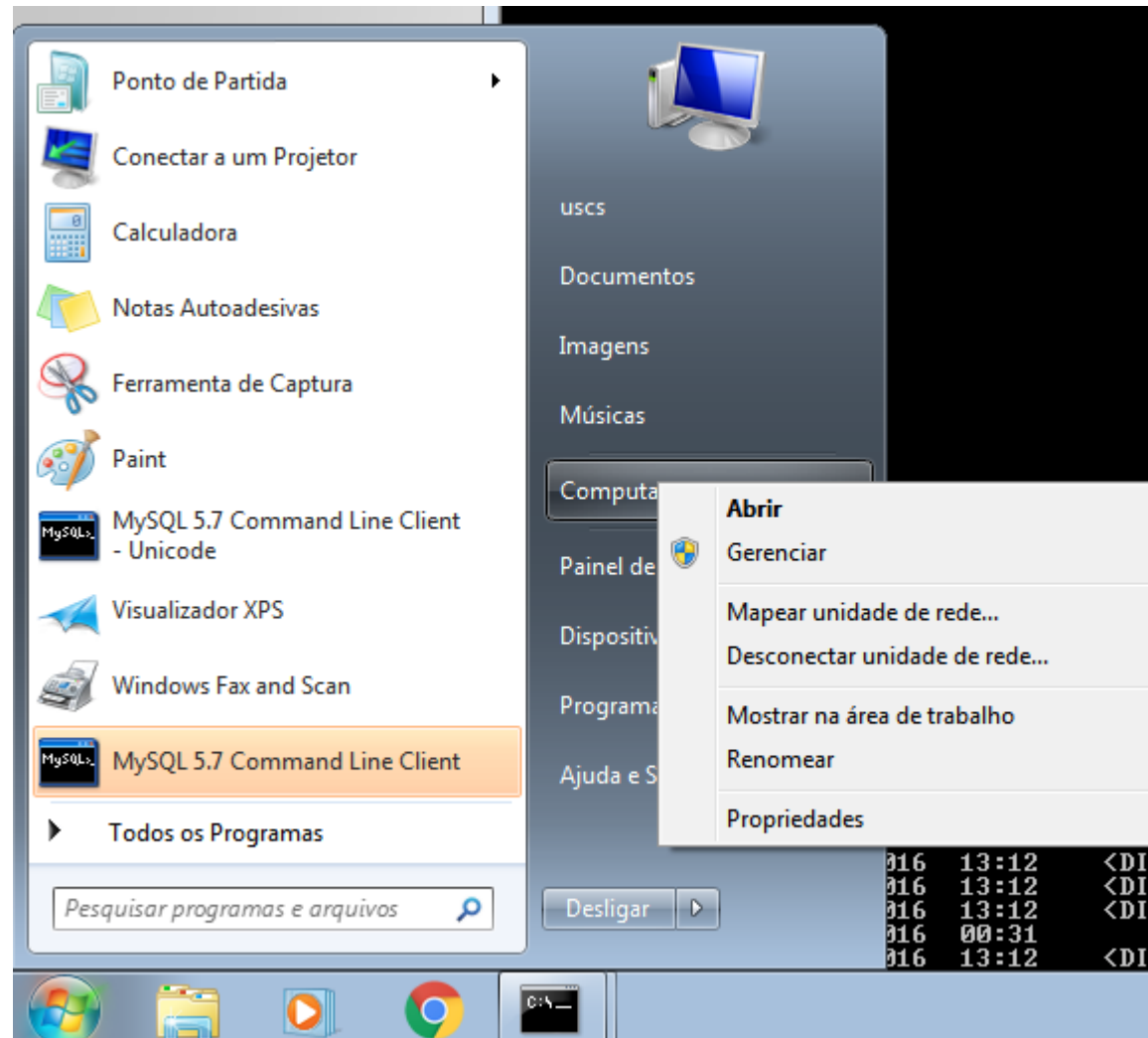
```
C:\Windows\system32\cmd.exe - mysql -h localhost -u root -p
Microsoft Windows [versão 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Todos os direitos reservados.

C:\Users\uscs>mysql -h localhost -u root -p
'mysql' não é reconhecido como um comando interno
ou externo, um programa operável ou um arquivo em lotes.

C:\Users\uscs>cd "c:\Program Files\MySQL\MySQL Server 5.7\bin"
c:\Program Files\MySQL\MySQL Server 5.7\bin>mysql -h localhost -u root -p
Enter password: _
```

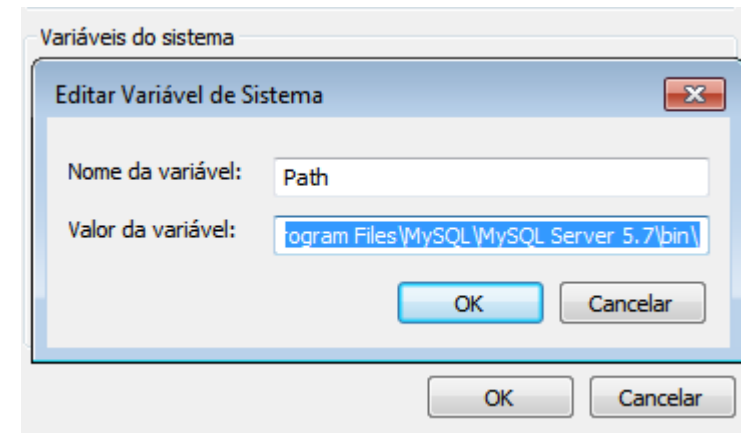
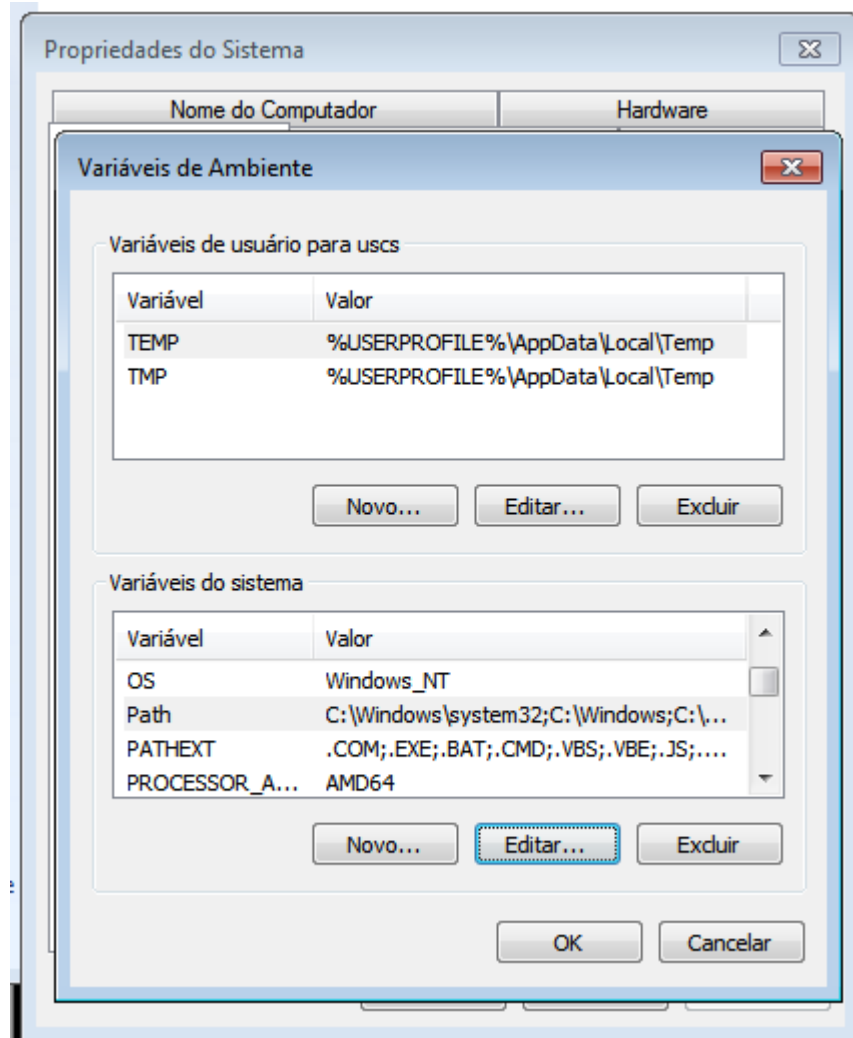


# Configurando um servidor MySQL





# Configurando um servidor MySQL







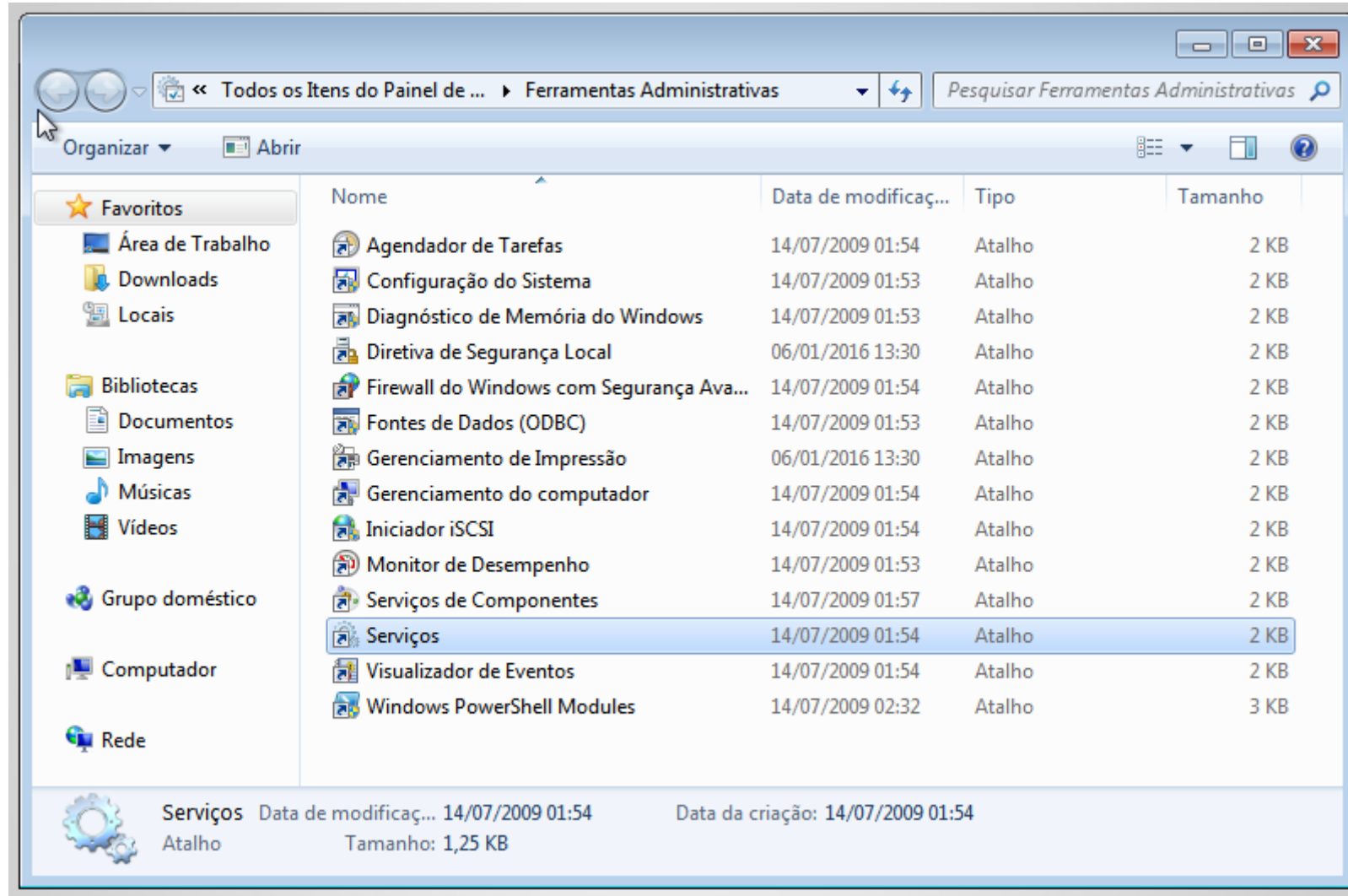
# Configurando um servidor MySQL



```
C:\Windows\system32\cmd.exe - mysql -h localhost -u root -p  
  
C:\Users\uscs>mysql -h localhost -u root -p  
Enter password: ****_
```

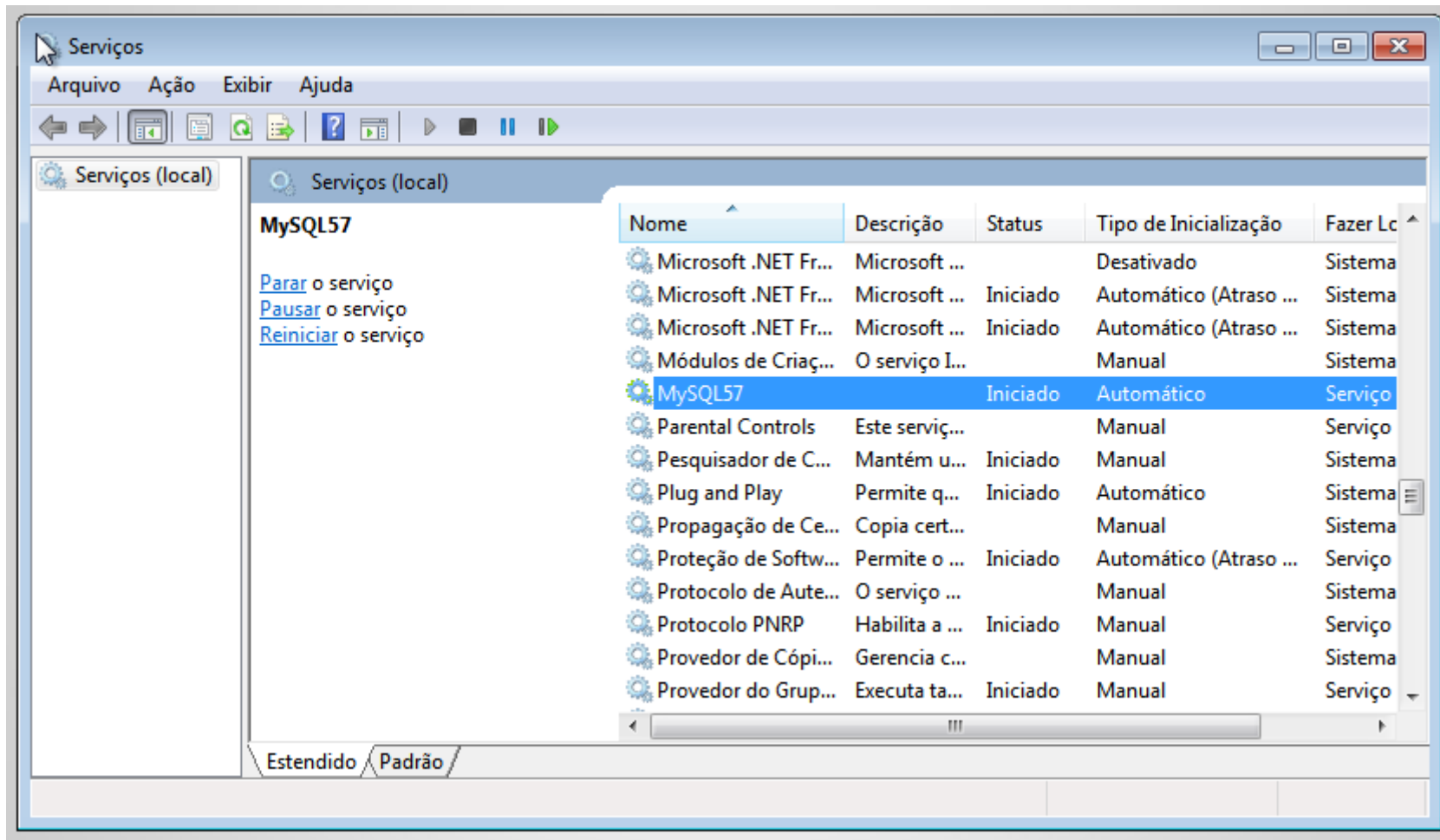


# Configurando um servidor MySQL





# Configurando um servidor MySQL





# Configurando um servidor MySQL



Propriedades de MySQL57 (Computador local)

**Geral** Logon Recuperação Dependências

Nome do serviço: **MySQL57**

Nome para exibição: MySQL57

Descrição:

Caminho do executável:  
"C:\Program Files\MySQL\MySQL Server 5.7\bin\mysqld.exe" --defaults-file

Tipo de inicialização: Automático

[Ajude-me a configurar as opções de inicialização de serviço.](#)

Status do serviço: Iniciado

Iniciar Parar Pausar Continuar

Você pode especificar os parâmetros de inicialização aplicáveis quando o serviço é iniciado aqui.

Parâmetros de inicialização:

OK Cancelar Aplicar

Propriedades de MySQL57 (Computador local)

**Geral** Logon Recuperação Dependências

Nome do serviço: MySQL57

Nome para exibição: MySQL57

Descrição:

Caminho do executável:  
"C:\Program Files\MySQL\MySQL Server 5.7\bin\mysqld.exe" --defaults-file

Tipo de inicialização: Automático

[Ajude-me a configurar as opções de inicialização de serviço.](#)

Status do serviço: Parado

Iniciar Parar Pausar Continuar

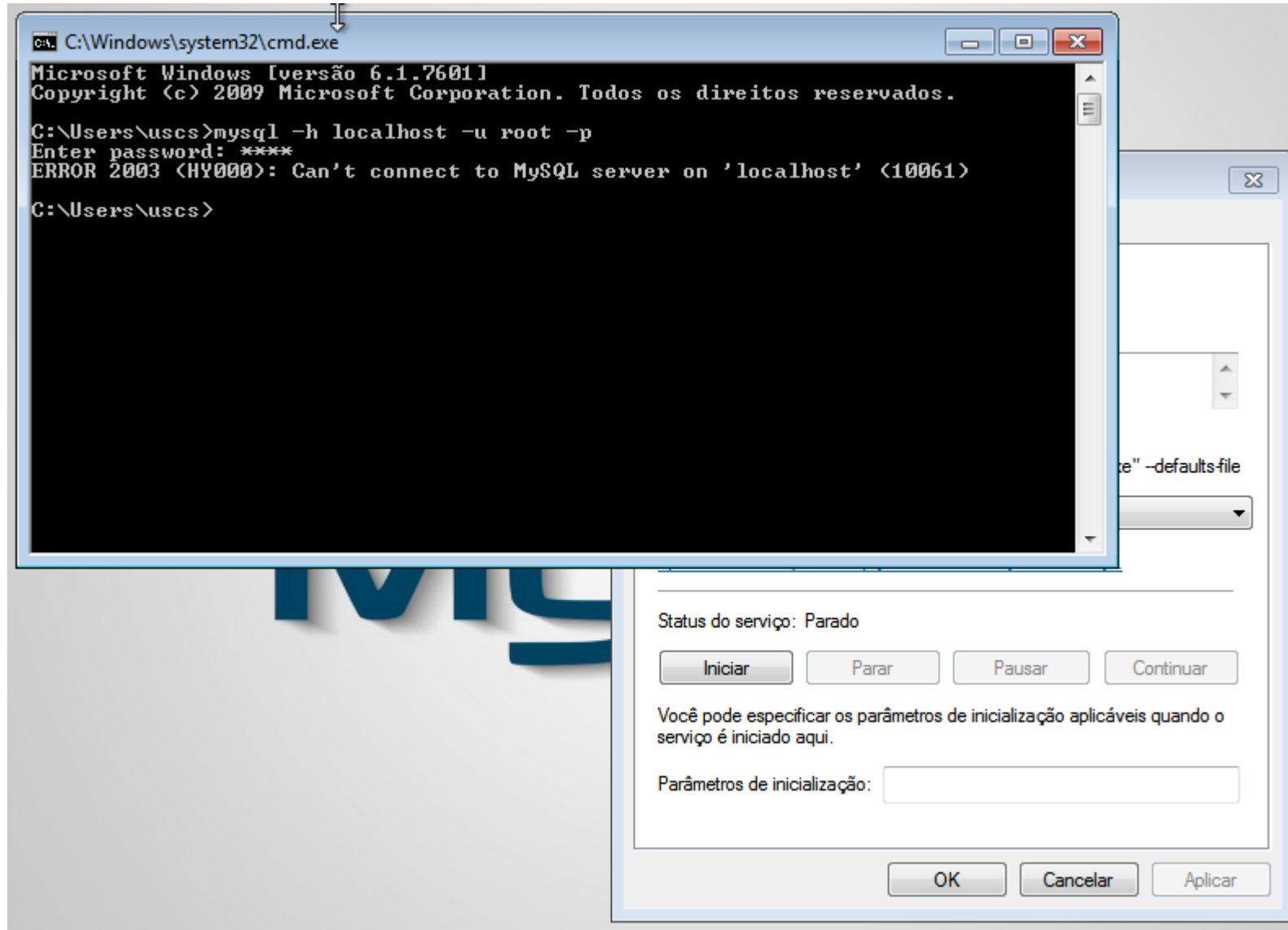
Você pode especificar os parâmetros de inicialização aplicáveis quando o serviço é iniciado aqui.

Parâmetros de inicialização:

OK Cancelar Aplicar

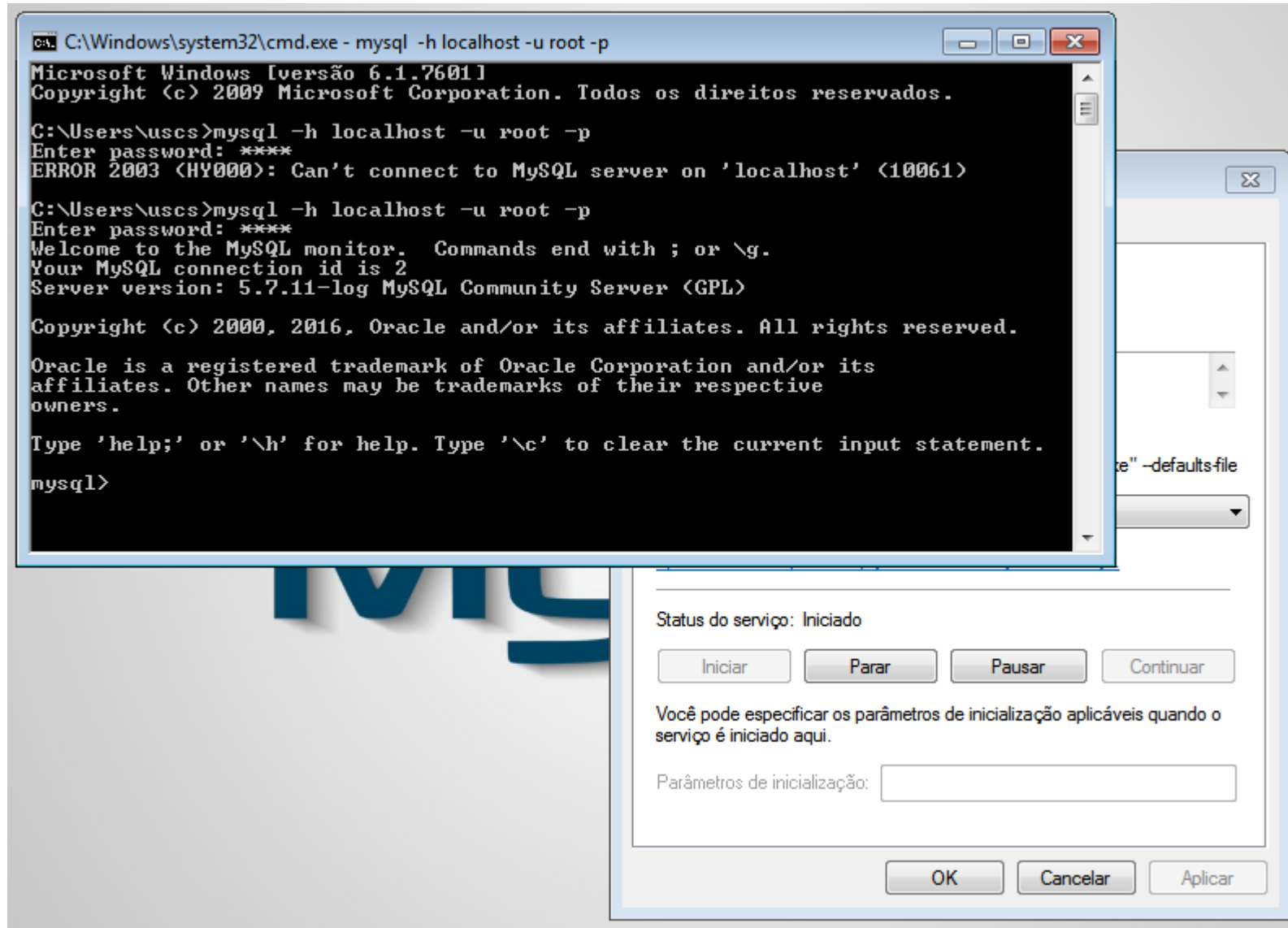


# Configurando um servidor MySQL



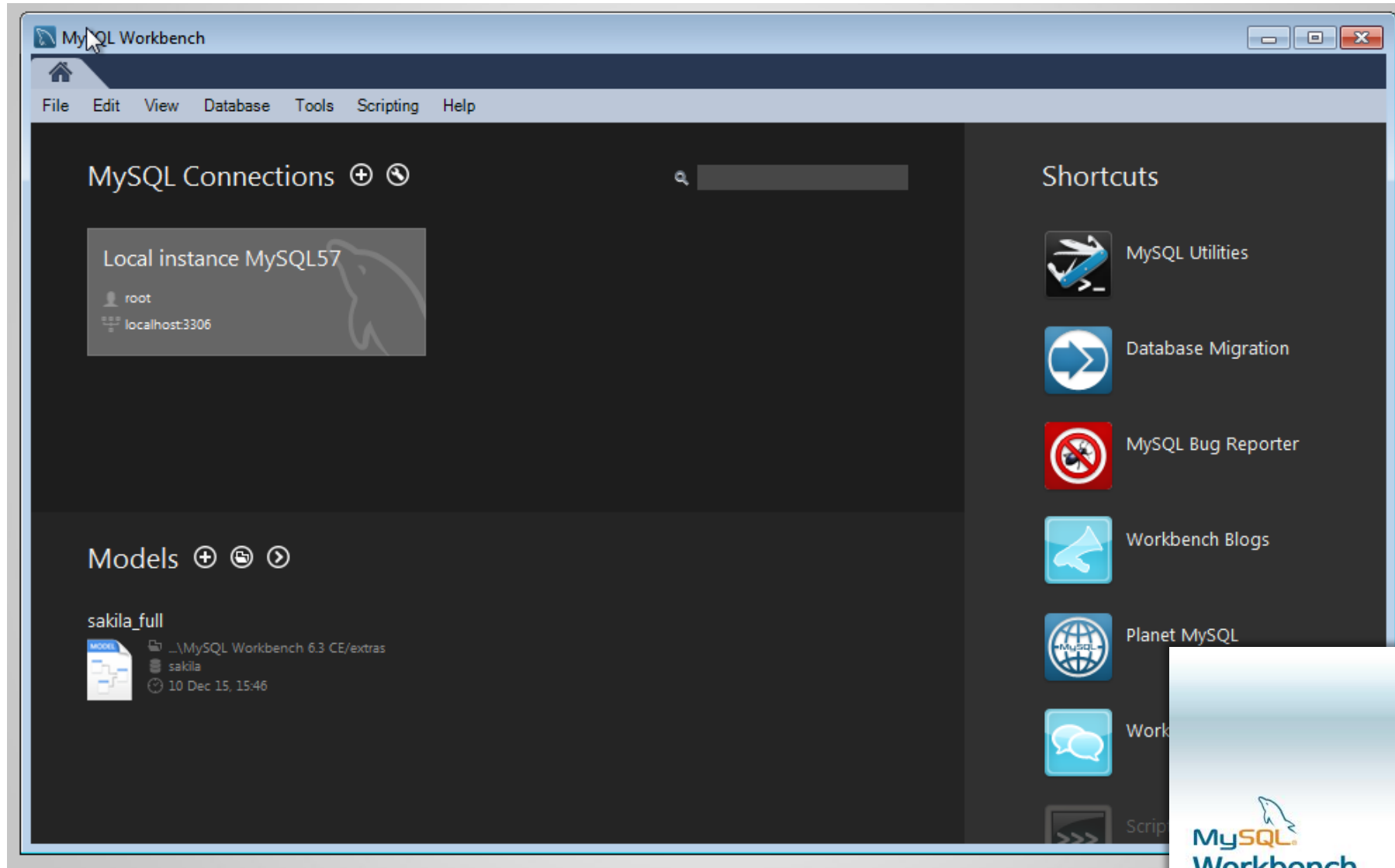


# Configurando um servidor MySQL



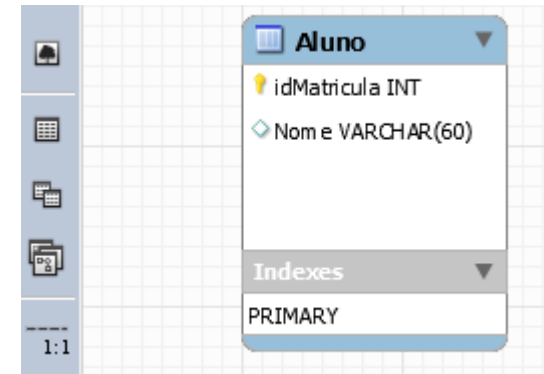
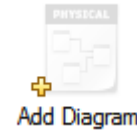
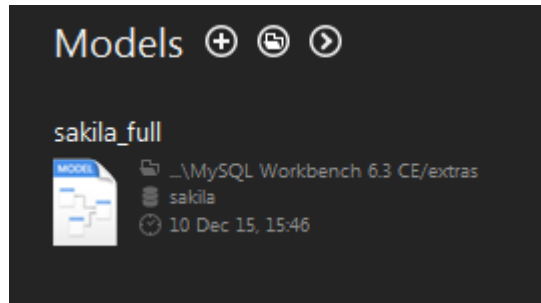


# Configurando um servidor MySQL





# Configurando um servidor MySQL



Aluno - Table x

Table Name:  Schema: **mydb**

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
idMatricula	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Nome	VARCHAR(60)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Column Name:

Collation:

Comments:

Data Type:

Default:

Storage: ☐ Virtual ☐ Stored

☐ Primary Key ☐ Not Null ☐ Unique

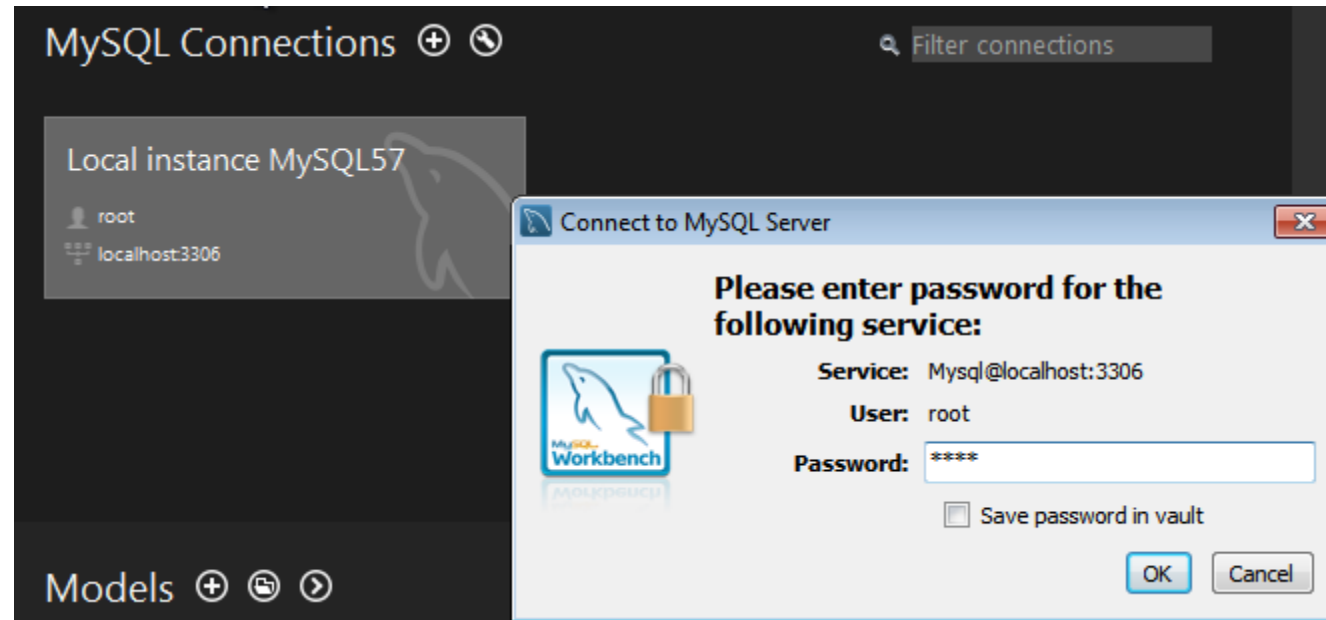
☐ Binary ☐ Unsigned ☐ Zero Fill

☐ Auto Increment ☐ Generated





# Configurando um servidor MySQL





# Configurando um servidor MySQL



Query 1 x

Limit to 1000 rows

```
1 /*Comando responsável por selecionar uma base de dados*/
2 use sakila;
3
4 # Comando responsável por exibir uma listagem das tabelas
5 show tables;
6
7 -- Comando responsável por exibir os detalhes de uma tabela
8 describe actor;
```

Result Grid

	Field	Type	Null	Key	Default	Extra
▶	actor_id	smallint(5) unsigned	NO	PRI	NULL	auto_increment
	first_name	varchar(45)	NO		NULL	
	last_name	varchar(45)	NO	MUL	NULL	
	last_update	timestamp	NO		CURRENT_TIMESTAMP	on update CURRENT_TIMESTAMP

Result 2 x

Result Grid

Form Editor

Field Types



# Configurando um servidor MySQL





# Configurando um servidor MySQL



```
uscs@uscs-MySQL: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
uscs@uscs-MySQL:~$ sudo apt-get install mysql-server mysql-client
```



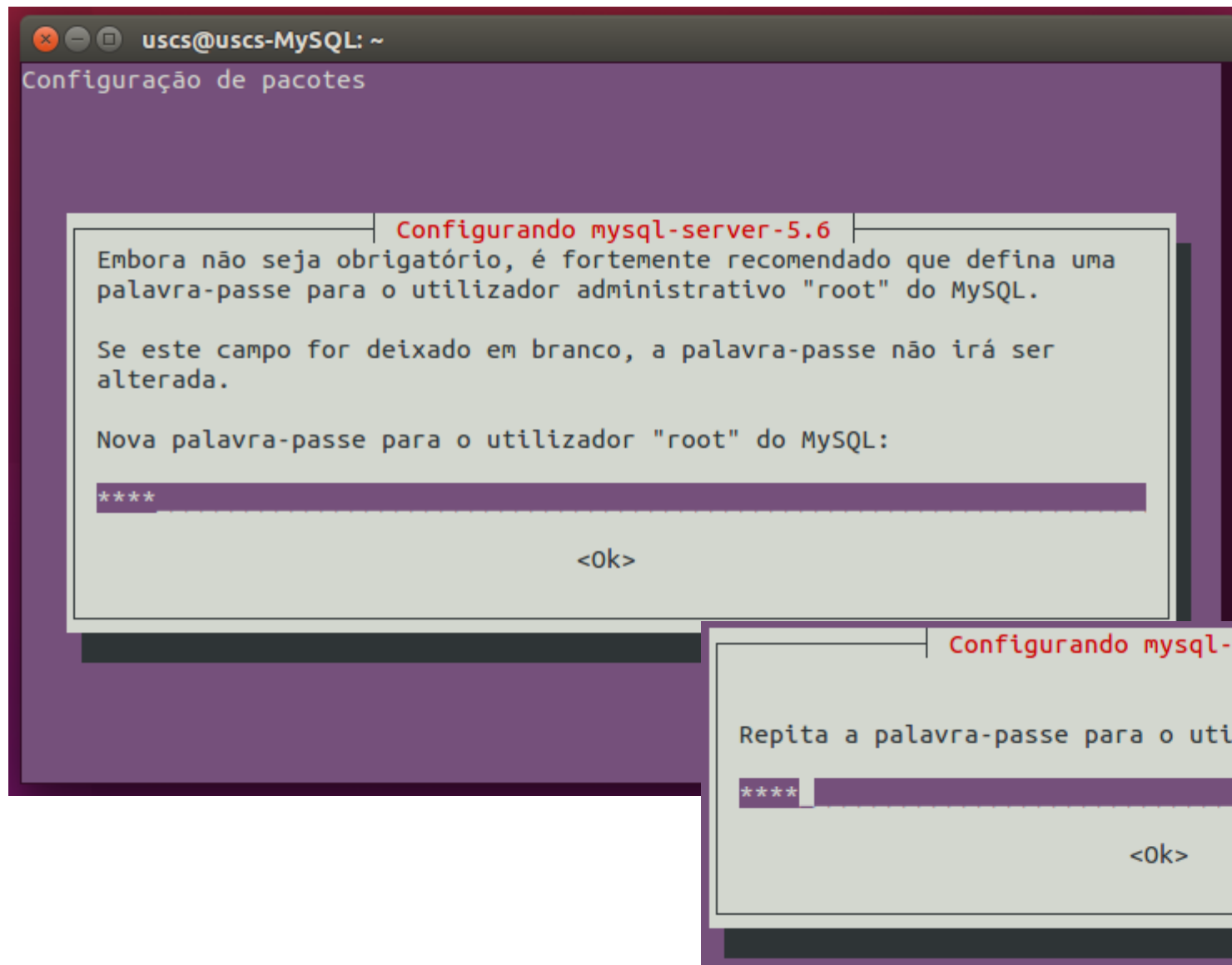
# Configurando um servidor MySQL



```
uscs@uscs-MySQL: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
uscs@uscs-MySQL:~$ sudo apt-get install mysql-server mysql-client  
[sudo] senha para uscs:  
Lendo listas de pacotes... Pronto  
Construindo árvore de dependências  
Lendo informação de estado... Pronto  
Os pacotes extra a seguir serão instalados:  
  libaio1 libdbd-mysql-perl libdbi-perl libhtml-template-perl libmysqlclient18  
  libterm-readkey-perl mysql-client-5.6 mysql-client-core-5.6 mysql-common  
  mysql-server-5.6 mysql-server-core-5.6  
Pacotes sugeridos:  
  libmldbm-perl libnet-daemon-perl libsql-statement-perl  
  libipc-sharedcache-perl mailx tinyca  
Os NOVOS pacotes a seguir serão instalados:  
  libaio1 libdbd-mysql-perl libdbi-perl libhtml-template-perl libmysqlclient18  
  libterm-readkey-perl mysql-client mysql-client-5.6 mysql-client-core-5.6  
  mysql-common mysql-server mysql-server-5.6 mysql-server-core-5.6  
0 pacotes atualizados, 13 pacotes novos instalados, 0 a serem removidos e 162 nã  
o atualizados.  
É preciso baixar 21,1 MB de arquivos.  
Depois desta operação, 154 MB adicionais de espaço em disco serão usados.  
Você quer continuar? [S/n]
```



# Configurando um servidor MySQL





# Configurando um servidor MySQL



uscs@uscs-MySQL: ~

```
uscs@uscs-MySQL:~$ sudo service mysql stop
```

```
uscs@uscs-MySQL:~$
```

uscs@uscs-MySQL: ~

```
uscs@uscs-MySQL:~$ sudo service mysql start
```

```
uscs@uscs-MySQL:~$
```

uscs@uscs-MySQL: ~

```
uscs@uscs-MySQL:~$ sudo service mysql status
```

```
[sudo] senha para uscs:
```

```
●mysql.service - MySQL Community Server
```

```
   Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)
```

```
   Active: active (running) since Seg 2016-02-29 09:03:18 BRT; 19min ago
```

```
   Main PID: 6183 (mysqld_safe)
```

```
   CGroup: /system.slice/mysql.service
```

```
           └─6183 /bin/sh /usr/bin/mysqld_safe
```

```
              └─6530 /usr/sbin/mysqld --basedir=/usr --datadir=/var/lib/mysql --...
```

```
Fev 29 09:03:16 uscs-MySQL systemd[1]: Starting MySQL Community Server...
```

```
Fev 29 09:03:17 uscs-MySQL mysqld_safe[6183]: 160229 09:03:17 mysqld_safe Ca....
```

```
Fev 29 09:03:17 uscs-MySQL mysqld_safe[6183]: 160229 09:03:17 mysqld_safe Lo....
```

```
Fev 29 09:03:17 uscs-MySQL mysqld_safe[6183]: 160229 09:03:17 mysqld_safe St...l
```

```
Fev 29 09:03:18 uscs-MySQL systemd[1]: Started MySQL Community Server.
```

```
Hint: Some lines were ellipsized, use -l to show in full.
```

```
uscs@uscs-MySQL:~$
```



# Configurando um servidor MySQL



```
uscs@uscs-MYSQL: ~  
uscs@uscs-MYSQL:~$ mysql  
ERROR 1045 (28000): Access denied for user 'uscs'@'localhost' (using password: NO)  
uscs@uscs-MYSQL:~$ mysql -h localhost -u root -p  
Enter password:
```

```
mysql> show databases;  
+-----+  
| Database |  
+-----+  
| information_schema |  
| mysql |  
| performance_schema |  
+-----+  
3 rows in set (0,00 sec)  
  
mysql>
```





# Configurando um servidor MySQL



```
uscs@uscs-MySQL: ~  
mysql> status  
-----  
mysql Ver 14.14 Distrib 5.6.28, for debian-linux-gnu (x86_64) using EditLine wrapper  
  
Connection id:          5  
Current database:  
Current user:           root@localhost  
SSL:                    Not in use  
Current pager:          stdout  
Using outfile:          ''  
Using delimiter:        ;  
Server version:         5.6.28-0ubuntu0.15.10.1 (Ubuntu)  
Protocol version:       10  
Connection:             Localhost via UNIX socket  
Server characterset:    latin1  
Db characterset:        latin1  
Client characterset:    utf8  
Conn. characterset:     utf8  
UNIX socket:            /var/run/mysqld/mysqld.sock  
Uptime:                 6 min 49 sec  
  
Threads: 1  Questions: 50  Slow queries: 0  Opens: 67  Flush tables: 1  Open tables: 60  
  Queries per second avg: 0.122  
-----  
mysql> █
```



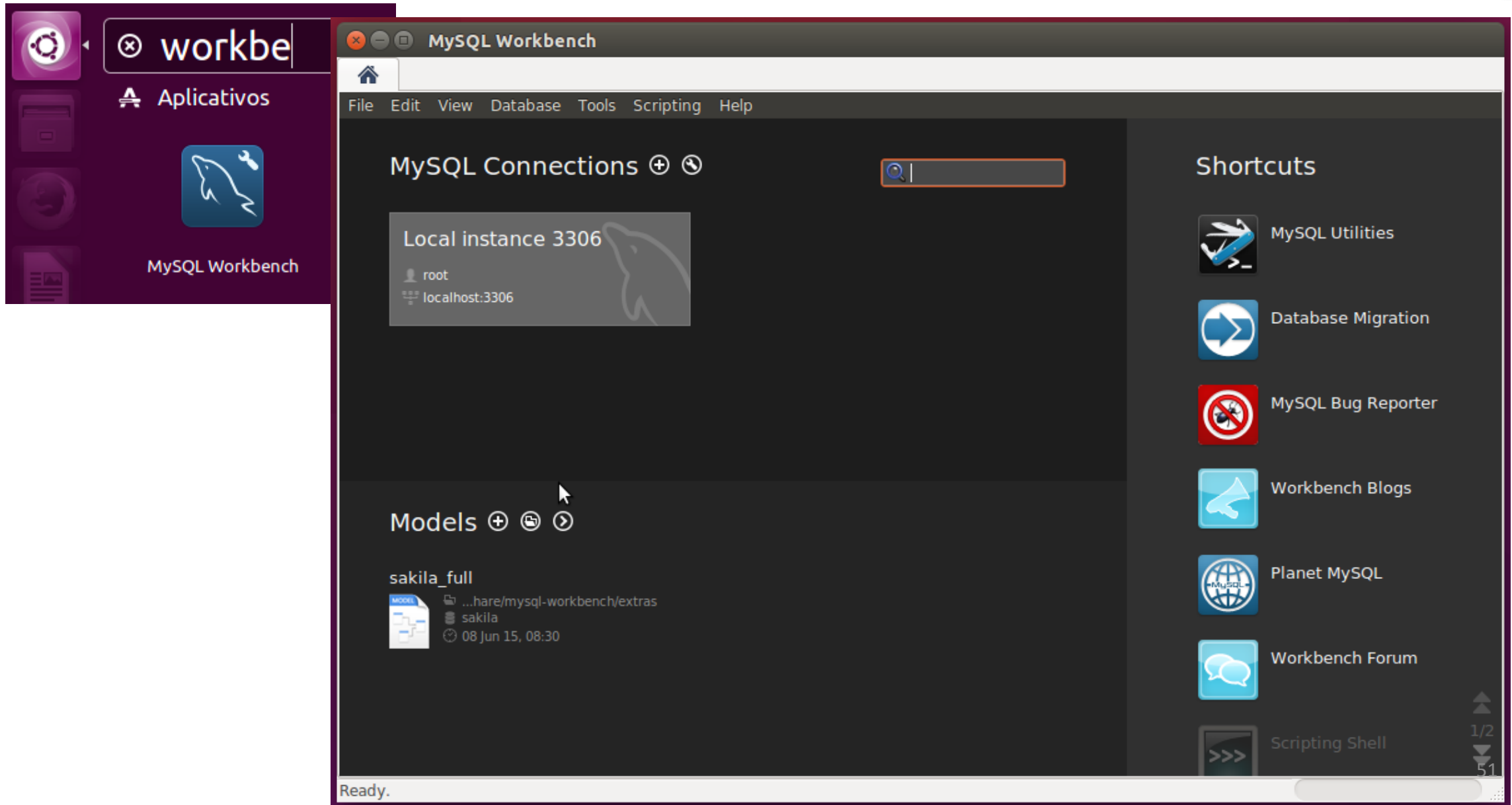
# Configurando um servidor MySQL



```
uscs@uscs-MySQL: ~  
uscs@uscs-MySQL:~$ sudo apt-get install mysql-workbench
```



# Configurando um servidor MySQL





# Configurando um servidor MySQL



Local instance 3306

File Edit View Query Database Server Tools Scripting Help

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

Filter objects

Query 1

```
show databases;
```

Limit to 1000 rows

#	Database
1	information_schema
2	mysql
3	performance_schema

Result 1

	Time	Action	Message
✓	1	09:27:12	show databases

3 row(s) returned





# Configurando um servidor MySQL



```
uscs@uscs-MySQL: /etc/mysql
uscs@uscs-MySQL:/etc/mysql$ nmap localhost

Starting Nmap 6.47 ( http://nmap.org ) at 2016-02-29 09:54 BRT
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00022s latency).
Not shown: 998 closed ports
PORT      STATE SERVICE
631/tcp   open  ipp
3306/tcp   open  mysql

Nmap done: 1 IP address (1 host up) scanned in 0.07 seconds
uscs@uscs-MySQL:/etc/mysql$
```



# Configurando um servidor MySQL



```
uscs@uscs-MySQL: ~  
uscs@uscs-MySQL:~$ sudo mysql -h localhost -u root -p  
[sudo] senha para uscs:  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 3  
Server version: 5.6.28-0ubuntu0.15.10.1 (Ubuntu)  
  
Copyright (c) 2000, 2015, Oracle and/or its affiliates. All rights reserved.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> create database uscsDB;  
Query OK, 1 row affected (0,00 sec)  
  
mysql> use uscsDB;  
Database changed  
mysql>
```



# Configurando um servidor MySQL



```
uscs@uscs-MySQL: ~  
uscs@uscs-MySQL:~$ sudo mysql -h localhost -u root -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 4  
Server version: 5.6.28-0ubuntu0.15.10.1 (Ubuntu)  
  
Copyright (c) 2000, 2015, Oracle and/or its affiliates. All rights reserved.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> use uscsDB;  
Database changed  
mysql> CREATE TABLE Aluno (  
-> idAluno INT(11) NOT NULL,  
-> Nome VARCHAR(45) NOT NULL,  
-> PRIMARY KEY (idAluno)  
-> );  
Query OK, 0 rows affected (0,13 sec)  
  
mysql> █
```



# Configurando um servidor MySQL



```
uscs@uscs-MySQL: ~  
  
mysql> INSERT INTO Aluno  
-> (idAluno, Nome)  
-> VALUES (1, 'Maria da Silva');  
Query OK, 1 row affected (0,03 sec)  
  
mysql> INSERT INTO Aluno  
-> (idAluno, Nome)  
-> VALUES (2, 'João Gomes');  
Query OK, 1 row affected (0,03 sec)  
  
mysql> SELECT * FROM Aluno;  
+-----+-----+  
| idAluno | Nome          |  
+-----+-----+  
|      1 | Maria da Silva |  
|      2 | João Gomes    |  
+-----+-----+  
2 rows in set (0,00 sec)  
  
mysql>
```





# Configurando um servidor MySQL



```
uscs@uscs-MySQL: ~  
uscs@uscs-MySQL:~$ sudo mysql -h localhost -u root -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 8  
Server version: 5.6.28-0ubuntu0.15.10.1 (Ubuntu)  
  
Copyright (c) 2000, 2015, Oracle and/or its affiliates. All rights reserved.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> use uscsDB;  
Reading table information for completion of table and column names  
You can turn off this feature to get a quicker startup with -A  
  
Database changed  
mysql> SELECT * FROM Aluno;  
+-----+-----+  
| idAluno | Nome          |  
+-----+-----+  
|      1 | Maria da Silva |  
|      2 | João Gomes    |  
+-----+-----+  
2 rows in set (0,00 sec)  
  
mysql> 
```



# Configurando um servidor MySQL



Setup New Connection

Connection Name:  Type a name for the connection

Connection Method:  Method to use to connect to the R

Parameters SSL Advanced

Hostname:  Port:  Name or IP address of the server host - and TCP/IP port.

Username:  Name of the user to connect with.

Password:  The user's password. Will be requested later if not set.

Default Schema:  The schema to use as default schema. Leave blank to select it later.

Configure Server Management... Test Connection Cancel OK

**i Successfully made the MySQL connection**

Information related to this connection:

Host: 192.168.191.158  
Port: 3306  
User: root  
SSL: not enabled

A successful MySQL connection was made with the parameters defined for this connection.

OK

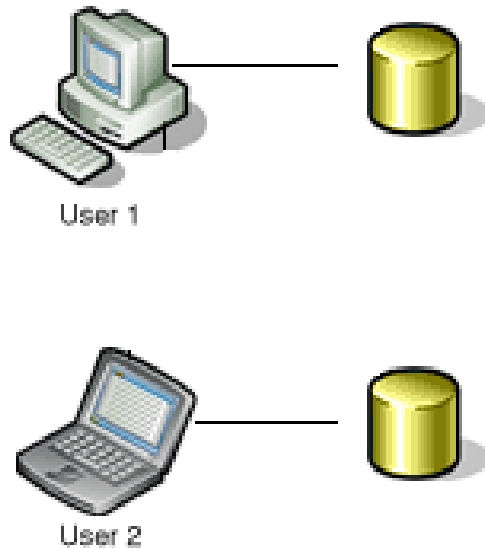
Test Connection



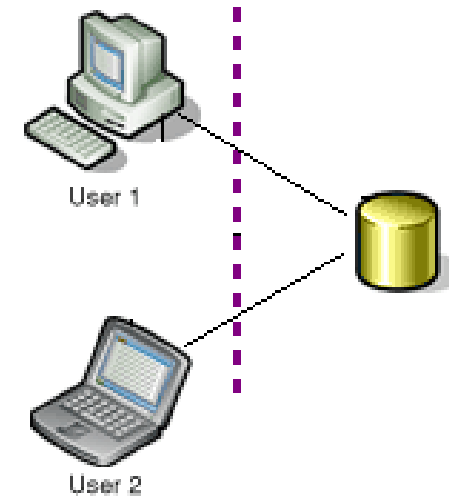
# Configurando um servidor MySQL



## Standalone



## Client/Server





# Configurando um servidor MySQL



The screenshot displays the MySQL Workbench interface with the 'uscsMySQL\_Ubuntu' connection selected. The left sidebar shows the 'MANAGEMENT' and 'INSTANCE' sections. The central query editor contains the SQL statement `SELECT * FROM Aluno;`. Below the query editor, the 'Result Grid' shows the following data:

idAluno	Nome
1	Maria da Silva
2	João Gomes

The 'SCHEMAS' section on the left shows the 'uscsDB' database with its contents expanded. Overlaid on the bottom right is a terminal window titled 'Ubuntu\_MySQL [Executando] - Oracle VM VirtualBox'. The terminal shows the command `mysql -h localhost -u root -p` being executed, followed by the MySQL prompt `mysql>`.



# Configurando um servidor MySQL



The screenshot displays the MySQL Workbench application window. The left sidebar contains the 'Navigator' pane with sections for MANAGEMENT (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), INSTANCE (Startup / Shutdown, Server Logs, Options File), PERFORMANCE (Dashboard, Performance Reports, Performance Schema Setup), and SCHEMAS (Filter objects, uscsDB, Tables, Views, Stored Procedures, Functions). The main editor area shows 'Query 1' with the following SQL code:

```
1 INSERT INTO Aluno
2 (idAluno, Nome)
3 VALUES (3, 'Pedro Augusto');
```

The 'Output' pane at the bottom shows the execution results in a table:

	Time	Action	Message	Duration / Fetch
✓	1 11:07:29	INSERT INTO Aluno (idAluno, Nome) VALUES (3, 'Pedro Au...	1 row(s) affected	0.016 sec

The 'SQLAdditions' pane on the right contains a message: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'





# Configurando um servidor MySQL



The screenshot displays the MySQL Workbench interface and a terminal window. The Workbench window shows the 'Query 1' tab with the following SQL code:

```
1 INSERT INTO Aluno
2 (idAluno, Nome)
3 VALUES (3, 'Pedro Augusto');
```

The terminal window, titled 'Ubuntu\_MySQL [Executando] - Oracle VM VirtualBox', shows the output of the MySQL command-line interface. It displays the MySQL startup message, the prompt 'mysql>', and the execution of the 'use uscsDB;' command. The terminal then shows the output of the 'SELECT \* FROM Aluno;' query, which returns three rows of data:

idAluno	Nome
1	Maria da Silva
2	João Gomes
3	Pedro Augusto

The terminal also shows the prompt 'mysql>' and the output '3 rows in set (0,00 sec)'.