

Azure CLI

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Azure CLI

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2:50 PM

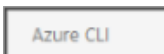

<https://docs.microsoft.com/en-us/azure/mysql/quickstart-create-mysql-server-database-using-azure-cli>

This quickstart describes how to use the Azure CLI to create an Azure Database for MySQL server in an / five minutes. The Azure CLI is used to create and manage Azure resources from the command line or in If you don't have an Azure subscription, create a [free](#) account before you begin.

Use Azure Cloud Shell

Azure hosts Azure Cloud Shell, an interactive shell environment that you can use through your browser. PowerShell with Cloud Shell to work with Azure services. You can use the Cloud Shell preinstalled comm article without having to install anything on your local environment.

To start Azure Cloud Shell:

Option	Example/Link
Select Try It in the upper-right corner of a code block. Selecting Try It doesn't automatically copy the code to Cloud Shell.	
Go to https://shell.azure.com , or select the Launch Cloud Shell button to open Cloud Shell in your browser.	

Select the **Cloud Shell** button on the menu bar at the upper right in the [Azure portal](#).

To run the code in this article in Azure Cloud Shell:

1. Start Cloud Shell.
2. Select the **Copy** button on a code block to copy the code.
3. Paste the code into the Cloud Shell session by selecting **Ctrl+Shift+V** on Windows and Linux or by selecting **Cmd+Shift+V** on macOS.
4. Select **Enter** to run the code.

If you choose to install and use the CLI locally, this article requires that you are running the Azure CLI version 2.0 or later. Run `az --version` to find the version. If you need to install or upgrade, see [Install Azure CLI](#).

If you have multiple subscriptions, choose the appropriate subscription in which the resource exists or is billed for. Select a specific subscription ID under your account using [az account set](#) command.

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Try It

```
az account set --subscription 00000000-0000-0000-0000-000000000000
```

Create a resource group

Create an [Azure resource group](#) using the [az group create](#) command. A resource group is a logical container into which Azure resources are deployed and managed as a group.

The following example creates a resource group named `myresourcegroup` in the `westus` location.

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Try It

```
az group create --name myresourcegroup --location westus
```

Create an Azure Database for MySQL server

Create an Azure Database for MySQL server with the [az mysql server create](#) command. A server can manage multiple databases. Typically, a separate database is used for each project or for each user.

Setting	Sample value	Description
name	mydemosever	Choose a unique name that identifies your Azure Database for MySQL server. The server name can contain only lowercase letters, numbers, and the hyphen (-) character. It must contain from 3 to 63 characters.
resource-group	myresourcegroup	Provide the name of the Azure resource group.
sku-name	GP_Gen5_2	The name of the sku. Follows the convention {pricing tier}_{compute generation}_{vCores} in shorthand. See below this table for more information about the sku-name parameter.
backup-retention	7	How long a backup should be retained. Unit is days. Range is 7-35.
geo-redundant-backup	Disabled	Whether geo-redundant backups should be enabled for this server or not. Allowed values: Enabled, Disabled.
location	westus	The Azure location for the server.
ssl-enforcement	Enabled	Whether ssl should be enabled or not for this server. Allowed values: Enabled, Disabled.
storage-size	51200	The storage capacity of the server (unit is megabytes). Valid storage-size is minimum 5120MB and increases in 1024MB increments. See the pricing tiers document for more information about storage size limits.
version	5.7	The MySQL major version.
admin-user	myadmin	The username for the administrator login. It cannot be azure_superuser , admin , administrator , root , guest , or public .
admin-password	<i>secure password</i>	The password of the administrator user. It must contain between 8 and 128 characters. Your password must contain characters from three of the following categories: English uppercase letters, English lowercase letters, numbers, and non-alphanumeric characters.

The sku-name parameter value follows the convention {pricing tier}_{compute generation}_{vCores} as in the examples below:

- --sku-name B_Gen5_1 maps to Basic, Gen 5, and 1 vCore. This option is the smallest SKU available.
- --sku-name GP_Gen5_32 maps to General Purpose, Gen 5, and 32 vCores.
- --sku-name MO_Gen5_2 maps to Memory Optimized, Gen 5, and 2 vCores.

Please see the [pricing tiers](#) documentation to understand the valid values per region and per tier.

The following example creates a MySQL 5.7 server in West US named mydemoserver in your resource group myresourcegroup with server admin login myadmin. This is a **Gen 4 General Purpose** server with **2 vCores**. Substitute the <server_admin_password> with your own value.

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Try It

```
az mysql server create --resource-group myresourcegroup --name mydemoserver --location westus --admin-user myadmin --admin-password <server_admin_password> --sku-name GP_Gen5_2 --version 5.7
```

Note

Consider using the Basic pricing tier if light compute and I/O are adequate for your workload. Note that servers created in the Basic pricing tier cannot later be scaled to General Purpose or Memory Optimized. See the [pricing page](#) for more information.

Configure firewall rule

Create an Azure Database for MySQL server-level firewall rule using the [az mysql server firewall-rule create](#) command. A server-level firewall rule allows an external application, such as the **mysql.exe** command-line tool or MySQL Workbench to connect to your server through the Azure MySQL service firewall.

The following example creates a firewall rule called AllowMyIP that allows connections from a specific IP address, 192.168.0.1. Substitute in the IP address or range of IP addresses that correspond to where you'll be connecting from.

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```
az mysql server firewall-rule create --resource-group myresourcegroup --server mydemoserver --name AllowMyIP --start-ip-address 192.168.0.1 --end-ip-address 192.168.0.1
```

Note

Connections to Azure Database for MySQL communicate over port 3306. If you try to connect from within a corporate network, outbound traffic over port 3306 might not be allowed. If this is the case, you can't connect to your server unless your IT department opens port 3306.

Configure SSL settings

By default, SSL connections between your server and client applications are enforced. This default ensures security of "in-motion" data by encrypting the data stream over the internet. To make this quick start easier, disable SSL connections for your server. Disabling SSL is not recommended for production servers. For more information, see [Configure SSL connectivity in your application to securely connect to Azure Database for MySQL](#).

The following example disables enforcing SSL on your MySQL server.

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```
az mysql server update --resource-group myresourcegroup --name mydemoserver --ssl-enforcement Disabled
```

Get the connection information

To connect to your server, you need to provide host information and access credentials.

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```
az mysql server show --resource-group myresourcegroup --name mydemoserver
```

The result is in JSON format. Make a note of the **fullyQualifiedDomainName** and **administratorLogin**.

JSONCopy

```
{
  "administratorLogin": "myadmin",
  "earliestRestoreDate": null,
  "fullyQualifiedDomainName": "mydemoserver.mysql.database.azure.com",
  "id": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/myresourcegroup/providers/Microsoft.DBforMySQL/servers/mydemoserver",
  "location": "westus",
  "name": "mydemoserver",
  "resourceGroup": "myresourcegroup",
  "sku": {
    "capacity": 2,
    "family": "Gen5",
    "name": "GP_Gen5_2",
    "size": null,
    "tier": "GeneralPurpose"
  },
  "sslEnforcement": "Enabled",
  "storageProfile": {
    "backupRetentionDays": 7,
    "geoRedundantBackup": "Disabled",
    "storageMb": 5120
  },
  "tags": null,
  "type": "Microsoft.DBforMySQL/servers",
  "userVisibleState": "Ready",
  "version": "5.7"
}
```

Connect to the server using the mysql.exe command-line tool

Connect to your server using the **mysql.exe** command-line tool. You can download MySQL from [here](#) and install it on your computer.

Type the next commands:

1. Connect to the server using **mysql** command-line tool:

bashCopy

```
mysql -h mydemoserver.mysql.database.azure.com -u myadmin@mydemoserver -p
```

2. View server status:

SQLCopy

mysql> status

If everything goes well, the command-line tool should output the following text:

dosCopy

C:\Users>mysql -h mydemosever.mysql.database.azure.com -u myadmin@mydemosever

-p

Enter password: *****

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

Your MySQL connection id is 65512

Server version: 5.6.26.0 MySQL Community Server (GPL)

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

mysql> status

mysql Ver 14.14 Distrib 5.6.35, for Win64 (x86_64)

Connection id: 65512

Current database:

Current user: myadmin@116.230.243.143

SSL: Not in use

Using delimiter: ;

Server version: 5.6.26.0 MySQL Community Server (GPL)

Protocol version: 10

Connection: mydemosever.mysql.database.azure.com via TCP/IP

Server characterset: latin1

Db characterset: latin1

Client characterset: gbk

Conn. characterset: gbk

TCP port: 3306

Uptime: 2 days 9 hours 47 min 20 sec

Threads: 4 Questions: 34833 Slow queries: 2 Opens: 84 Flush tables: 4 Open tables: 1 Queries per second avg: 0.167

mysql>

Tip

For additional commands, see [MySQL 5.7 Reference Manual - Chapter 4.5.1](#).

Connect to the server using the MySQL Workbench GUI tool

1. Launch the MySQL Workbench application on your client computer. You can download and install MySQL Workbench from [here](#).
2. In the **Setup New Connection** dialog box, enter the following information on **Parameters** tab:

Setting	Suggested Value	Description
Connection Name	My Connection	Specify a label for this connection (this can be anything)
Connection Method	choose Standard (TCP/IP)	Use TCP/IP protocol to connect to Azure Database for MySQL>
Hostname	mydemosever.mysql.database.azure.com	Server name you previously noted.
Port	3306	The default port for MySQL is used.
Username	myadmin@mydemosever	The server admin login you previously noted.
Password	****	Use the admin account password you configured earlier.

Click **Test Connection** to test if all parameters are correctly configured. Now, you can click the connection to successfully connect to the server.

Clean up resources

If you don't need these resources for another quickstart/tutorial, you can delete them by doing the following command:

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```
az group delete --name myresourcegroup
```

If you would just like to delete the one newly created server, you can run [az mysql server delete](#) command.

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Try It

```
az mysql server delete --resource-group myresourcegroup --name mydemosever
```

From <<https://docs.microsoft.com/en-us/azure/mysql/quickstart-create-mysql-server-database-using-azure-cli>>

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