# Reinstalling Deadly Science System:

# Installation Instructions

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## Overview

This document is an instruction for installing and using the website, *Deadly Science – Connecting Science to Schools*.

This project is a development of online service to decrease the cost for rural schools to communicate with scientists. A portal is necessary. In the portal, the experts can add their available time (half or one-hour block) and contact methods (hangout / video meeting) to the system.

## System structure and requirements

The system is made up by 3 components: server, database and web.

Operating system: Windows Server (2016 or higher) or Linux Server (Ubuntu 16.04 or higher)

• Operating system: Linux Server (Ubuntu 16.04 or higher)

• Hardware: 1 core 2.0GHz GPU, 1GB RAM, 200MB ROM (At least)

• Software: Python 3, MySQL server, Django framework

• Environment: Python 3, MySQL server, Public IP location.

## Configure Server environment

### Download and configure Python 3

You can download Python 3.7 from <https://www.python.org/downloads/>

In **Linux**, you can download python files as a form of Python-3.x.x and run code in terminal with:

|  |
| --- |
| $ tar -zxvf Python-3.6.1.tgz  $ cd Python-3.6.1  $ ./configure  $ make && make install |

Check whether Python is available:

|  |
| --- |
| $ python3 -V  Python 3.6.1 |

If it is **Windows Server**, please download x86 or x64 installer based on your server hardware from above link and run it.

Then set environment variable：

Linux: input in bash shell (Linux):

|  |
| --- |
| export PATH="$PATH:/usr/local/bin/python" |

Windows server: input in CMD:

|  |
| --- |
| path=%path%;C:\Python |

### Download and configure MySQL

Download MySQL from <https://dev.mysql.com/downloads/mysql/> and choose version based on your platform as above.

In **Linux**, download yum from <https://dev.mysql.com/downloads/repo/yum/> . Then run:

|  |
| --- |
| wget http://repo.mysql.com/mysql-community-release-el7-5.noarch.rpm  rpm -ivh mysql-community-release-el7-5.noarch.rpm  yum update  yum install mysql-server  chown mysql:mysql -R /var/lib/mysql |

Initialize MySQL:

|  |
| --- |
| mysqld --initialize |

Run MySQL:

|  |
| --- |
| systemctl start mysqld |

In **Windows Server**, download MySQL and nuzip it in C:\web\mysql-8.0.11. Thn create my.ini and edit it with:

|  |
| --- |
| [client]  default-character-set=utf8  [mysqld]  port = 3306  basedir=C:\\web\\mysql-8.0.11  # datadir=C:\\web\\sqldata  max\_connections=20  character-set-server=utf8  default-storage-engine=INNODB |

Run MySQL and initialize it:

|  |
| --- |
| cd C:\web\mysql-8.0.11\bin  mysqld --initialize –console |

You will get a temporary password from the result. You can change it afterwards.

|  |
| --- |
| mysqld install |

Run MySQL:

|  |
| --- |
| net start mysql |

### Download and configure Django

In **Linux**: please install pip first and then run:

|  |
| --- |
| pip install Django |

Or you can use yum:

|  |
| --- |
| yum install python-setuptools  easy\_install django |

In **Windows Server**: download Django from: <https://www.djangoproject.com/download/> . Go to Django dictionary and run:

|  |
| --- |
| python setup.py install |

Set profile in system environment: C:\Python33\Lib\site-packages\django;C:\Python33\Scripts

Check Django:

|  |
| --- |
| import django  django.get\_version() |

## Configure Other Files

Now that you have set the environment, if you work in **windows server**, please transfer project files into server.

Then change settings for project:

1. Change the IPs to your public IP of server.
2. Setting arguments for Database:

Go to /mysite/mysite/settings.py. Find

图片包含 文字

描述已自动生成

Figure1: Setting of Database

Change Password if you want;

The numbers of port can be changed but must be the same as your database port numbers.

## Load data into database

Data cannot be added into the system in a batch because every user must be verified by emails.

The users, including students and scientists can modify their own information online (edit information in Profile WebView after login/signup).

## Uninstalling

### Uninstalling Python 3

It is not recommend to uninstalling Python 3, but you can delete it running:

|  |
| --- |
| sudo apt-get remove python3 |

### Uninstalling Django

|  |
| --- |
| pip uninstall django |

### Uninstalling MySQL

Show installation situation of in the server:

|  |
| --- |
| rpm -qa|grep -i mysql |

Stop MySQL (name of lib is shown in above command)

|  |
| --- |
| rpm -e –nodeps [name of lib] |