gemma

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Contents:

1 Introduction **1**
- 1.1 About the app . . . 1
- 1.2 Requirements . . . 1
- 1.3 Get ready (Windows) . . . 1

2 Classic Subnetting **3**

3 VLSM Subnetting **5**

4 Large networks **7**

5 PDF Generation **9**

6 Docker **11**

7 Deploy **13**

8 Indices and tables **15**

CHAPTER 1

Introduction

1.1 About the app

It was hard for me but easy at the end to learn about subnetting. I hope this app gives the opportunity to other people to understand the process. I will explain every problem that we can generate for creating subnets.

The sole purpose of `gemma` is to add a *graphical user interface* system functionality and give you the ability to calculate **Subnets**.

The key features of Gemma are:

- Classic subnetting
- VLSM
- Large networks

1.2 Requirements

1. Django 2.2
2. Python 3.6.5
3. mysqlclient 1.4.6

1.3 Get ready (Windows)

- Download python
- Install `pip`. For windows we get it here

- Create an environment variable for pip:

```
setx PATH "%PATH%;C:\Python36\Scripts"
```

- Create an isolated environment for python with virtualenv:

```
pip install virtualenvwrapper-win
mkvirtualenv myproject
```

- Activate the virtualenv:

```
Scripts/activate => windows
source bin/activate => linux
```

- Install `Django` with pip
- Install `MySQL`:

```
For Python 2.7:
Download it here: http://www.codegood.com/download/10/
And with our virtualenv activated we do: easy_install file://C:/Users/ORDENADOR_1/
↪Downloads/MySQL-python-1.2.3.win32-py2.7.exe

For Python 3.6:
Download it here: https://www.lfd.uci.edu/~gohlke/pythonlibs/#mysql-python
32 bits refers to Python version and not to our system
```

- Create Django project and migrate the database:

```
django-admin startproject src
python manage.py migrate
python manage.py startapp subnetting
```

Now we are ready to start out project!

CHAPTER 2

Classic Subnetting

CHAPTER 3

VLSM Subnetting

CHAPTER 4

Large networks

CHAPTER 5

PDF Generation

CHAPTER 6

Docker

CHAPTER 7

Deploy

CHAPTER 8

Indices and tables

- genindex
- modindex
- search