

## **UBUNTU SERVER 22.04 BUILD**

A server is a must have element in an information system. A server works as a midpoint for different types of software. In our case we have built a Ubuntu server to store a PostgreSQL database and the Odoo ERP.

We have used the 22.04 version of Ubuntu Server because it offers a good stability in its services and operative system. We have also installed a graphical user interface to have a more user friendly experience while managing the process. For doing this installation we have used the tasksel package and we have added the Ubuntu Desktop version.

If we focus on more technical concepts, we have been forced to change some settings and services of the server to create a more personalized environment.

- First we have changed the netplan configuration to assign a specific address for the server and to have connection to the internet. The new address that we have configured to the server is 192.168.65.110/24. The gateway is 192.168.65.254/24 and the dns address is 10.15.27.1. Once we have changed this we have applied the new netplan configuration.
- The second step has been to install some services and functionalities that are compulsory for our purpose. We have installed the ufw firewall to add a certain amount of security to our server and we have allowed the ports that we have needed to do remote connections.

We have also installed the PostgreSQL service to host the database and ssh to do remote connections to the server. Is not necessary to install the PostgreSQL service because Odoo has the service inside his installation setup but we have installed it just in case.

For hosting our database we have directly installed Odoo. Odoo is a complete set of open source enterprise applications. Odoo allows the user to use different business software functionalities such as CRM, sales, inventory, reports, accounting, sending invoices, web, e-commerce, e-mail marketing and many more under the same platform.

The installation of Odoo is the main service of our server because Odoo is going to be directly changing, adding or deleting data from the database. The rest of the software is going to be also taking data from the database but Odoo can directly make changes from it. So doing a good setup and installation of Odoo is a critical aspect of the building.

Once we have installed Odoo we have done the setup of the service. Using an internet browser we have connected to Odoo to create a database (localhost:8069).

- Database name: odoodb
- User: odoo
- Password: Talde1

After creating the database we have set up the remote connections, for that we have made some changes on the conf files of PostgreSQL. In the /etc/postgresql/12/main directory there are two configuration files that we have changed. In the pg\_hba.conf file we have added two lines configuring access to all addresses (0.0.0.0/0 and ::/0).

We had some problems with this configuration file, we already configured the connection to all sockets and we duplicated the configuration parameters. This gave us configuration errors. We solved it by restoring the default configuration and adding again the new parameters.

We also had problems doing the remote connection with PgAdmin. Odoo creates by default the Odoo user and creates that user without a password. We changed the user to connect to the database. For that we entered the PostgreSQL terminal in the server and we altered the user.

Using this command (Sudo .u postgres psql) we entered the PostgreSQL command line, then we used this command to alter the user. Alter user odoo password 'Admin123';.