

Quickstart Debian / Ubuntu

<https://www.chirpstack.io/docs/getting-started/debian-ubuntu.html#quickstart-debian--ubuntu>



Оригинал инструкция обновлен на офсайте. Новый Репозиторий!!!

<https://www.chirpstack.io/docs/getting-started/debian-ubuntu.html#setup-software-repository>

Обновление на версию 4.14.x

This tutorial describes the steps needed to setup ChirpStack on a single machine. Recommended distributions are:

Ubuntu 24.04 LTS
Debian 11 (bullseye)

Note before you start

The purpose of this tutorial is to help you getting started. Topics like HA setup, database backups, setting up firewall rules are beyond the scope of this tutorial.

Install requirements

The following command installs the ChirpStack requirements using the apt package manager:

```
sudo apt install \
  mosquitto \
  mosquitto-clients \
  redis-server \
  redis-tools \
  postgresql
```

Для корректной работы с **Matrix AMM** и **MTX LoRa** необходима версия **Redis не ниже 6.2**. Redis version>6.2 ставится из пакетов, начиная с Ubuntu 24.04

Проверить версию Redis

```
redis-cli --version
```

PostgreSQL setup

To enter the command line utility for PostgreSQL:

```
sudo -u postgres psql
```

Inside this prompt, execute the following queries to setup the ChirpStack database. It is recommended to change the usernames and passwords.

```
-- create role for authentication
CREATE ROLE chirpstack WITH login password 'chirpstack';

-- create database
CREATE DATABASE chirpstack WITH owner chirpstack;

-- change to chirpstack database
\c chirpstack

-- create pg_trgm extension
CREATE extension pg_trgm;

-- exit psql
\q
```

Setup software repository

ChirpStack provides a Debian / Ubuntu repository which can be used to install the latest ChirpStack version. First make sure that gpg is installed:

```
sudo apt install gpg
```

Set up the key for the ChirpStack repository:

```
sudo mkdir -p /etc/apt/keyrings/
sudo sh -c 'wget -q -O -
https://artifacts.chirpstack.io/packages/chirpstack.key | gpg --dearmor >
/etc/apt/keyrings/chirpstack.gpg'
```

Add the repository to the repository list:

```
echo "deb [signed-by=/etc/apt/keyrings/chirpstack.gpg]
https://artifacts.chirpstack.io/packages/4.x/deb stable main" | sudo tee
/etc/apt/sources.list.d/chirpstack.list
```

Update the apt package cache:

```
sudo apt update
```

Install ChirpStack Gateway Bridge

Note: If you intend to install the ChirpStack Gateway Bridge only on gateway(s) themselves, you can skip this step.

Install the package using apt:

```
sudo apt install chirpstack-gateway-bridge
```

Configuration

The configuration file is located at `/etc/chirpstack-gateway-bridge/chirpstack-gateway-bridge.toml`. Please update the `[integration.mqtt]` section to match the region prefix for the region that applies to this ChirpStack Gateway Bridge instance.

Example for EU868:

```
[integration.mqtt]
event_topic_template="eu868/gateway/{{ .GatewayID }}/event/{{ .EventType }}"
command_topic_template="eu868/gateway/{{ .GatewayID }}/command/#"
```

You can find the region configurations that are included by default here:

<https://github.com/chirpstack/chirpstack/tree/master/chirpstack/configuration>.

Starting

Start the ChirpStack Gateway Bridge service:

```
# start chirpstack-gateway-bridge
sudo systemctl start chirpstack-gateway-bridge

# start chirpstack-gateway-bridge on boot
sudo systemctl enable chirpstack-gateway-bridge
```

Install ChirpStack

Install the package using apt:

```
sudo apt install chirpstack
```

Configuration

The configuration files are located at `/etc/chirpstack`. You will find one global configuration file called `chirpstack.toml` and various region configuration files.

Starting

Start the ChirpStack service:

```
# start chirpstack
sudo systemctl start chirpstack

# start chirpstack on boot
sudo systemctl enable chirpstack
```

Print the ChirpStack log-output:

```
sudo journalctl -f -n 100 -u chirpstack
```

Chirpstack-rest-api

<https://github.com/chirpstack/chirpstack-rest-api>

Add ChirpStack repository

Add the ChirpStack repository as described in the [Documentation](#).

Install package

After you have added the ChirpStack repository, you can install this component using the following command:

```
sudo apt install chirpstack-rest-api
```

Configuration

Environment variables can be used to configure the ChirpStack REST API proxy. You will find this configuration in `/etc/chirpstack-rest-api/` environment.

Starting

```
# start chirpstack
sudo systemctl start chirpstack-rest-api

# start chirpstack on boot
sudo systemctl enable chirpstack-rest-api
```

(Re)start and stop

```
sudo systemctl [restart|start|stop] chirpstack-rest-api
```

Обновление на версию 4.14.x

```
sudo apt install gpg &&  
sudo mkdir -p /etc/apt/keyrings &&  
sudo sh -c 'wget -q -O -  
https://artifacts.chirpstack.io/packages/chirpstack.key | gpg --dearmor >  
/etc/apt/keyrings/chirpstack.gpg' &&  
echo "deb [signed-by=/etc/apt/keyrings/chirpstack.gpg]  
https://artifacts.chirpstack.io/packages/4.x/deb stable main" | sudo tee  
/etc/apt/sources.list.d/chirpstack.list &&  
sudo apt update &&  
sudo apt upgrade -y
```

Возможно понадобится перезагрузка (лучше перезагрузить)

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