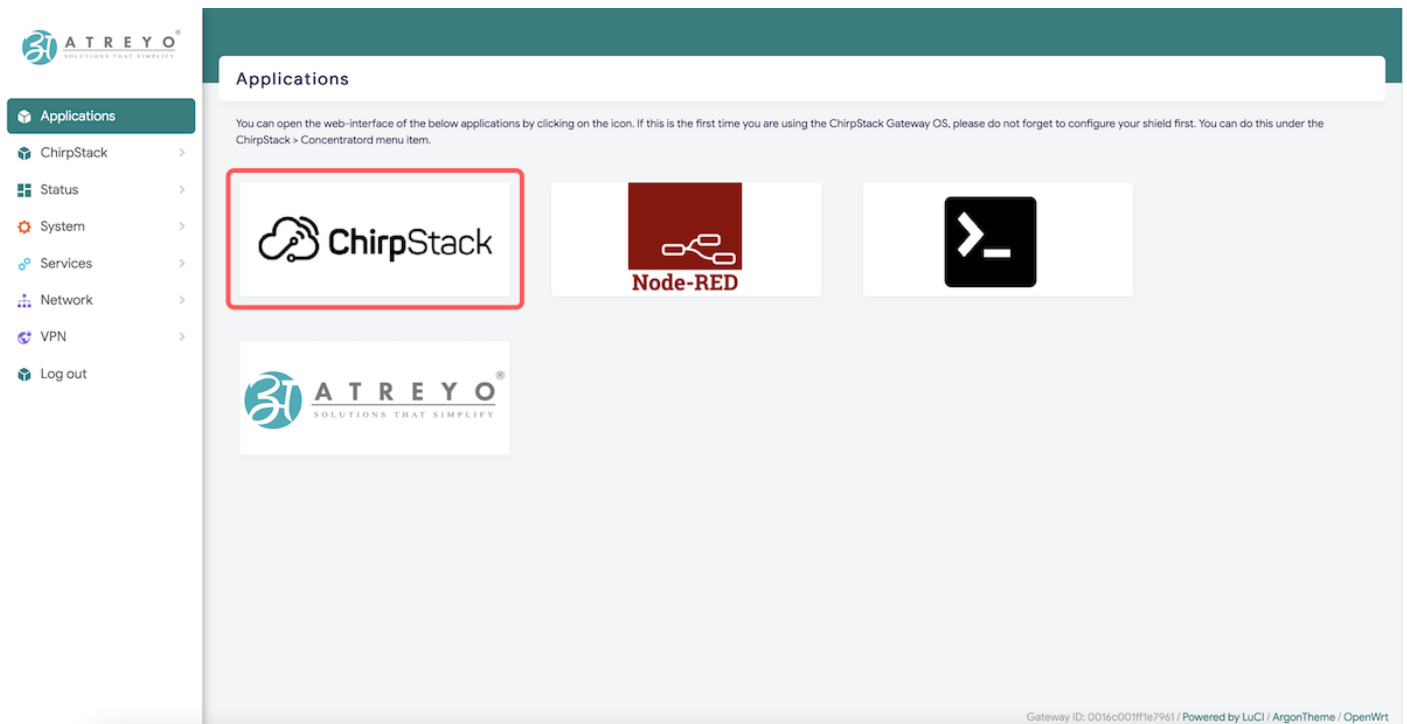


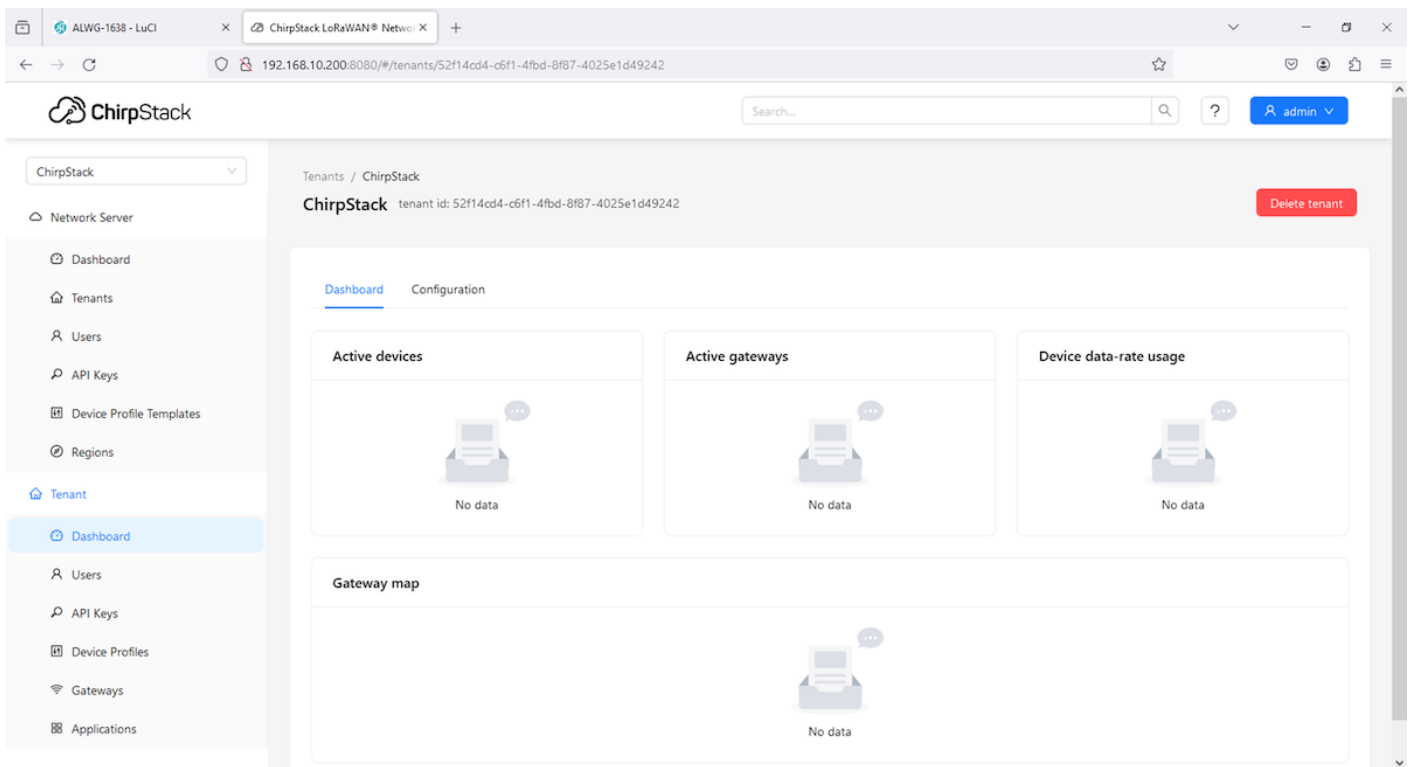
Chirpstack LNS

Once the Chirpstack LNS has been configured in gateway side, few things to be done in Chirpstack console. i.e. to add Gateway, End devices, Application etc.

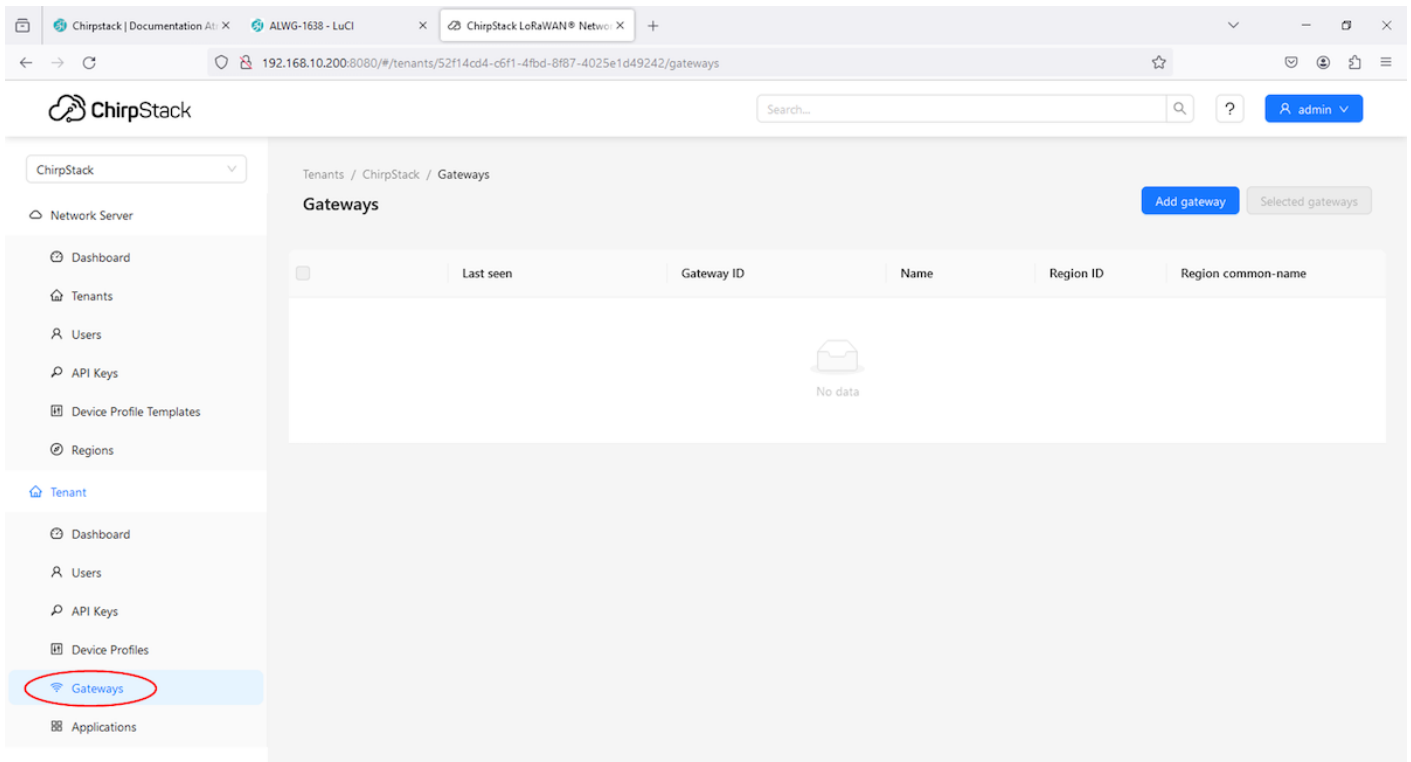
to **Add gateway** in chirpstack LNS open chirpstack LNS by clicking the icon in Application.



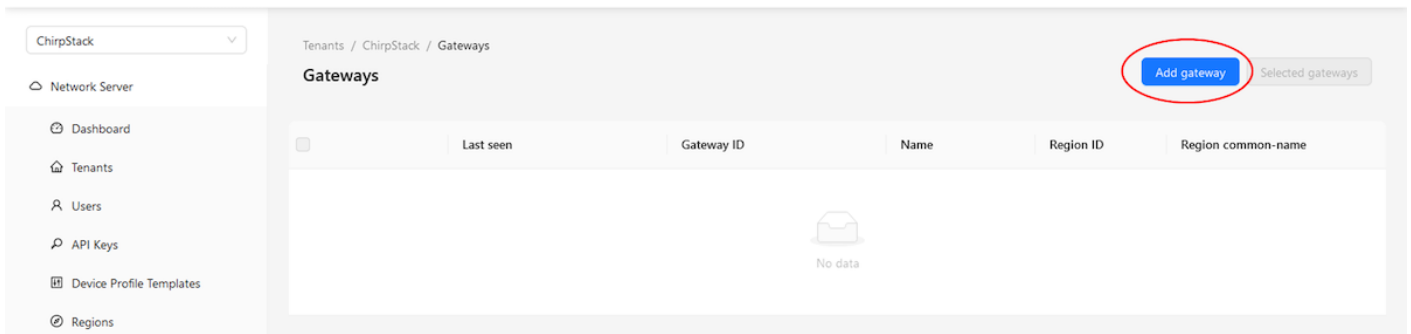
Login pop-up will appear, use admin/admin as user/pass. After login the screen will be like:



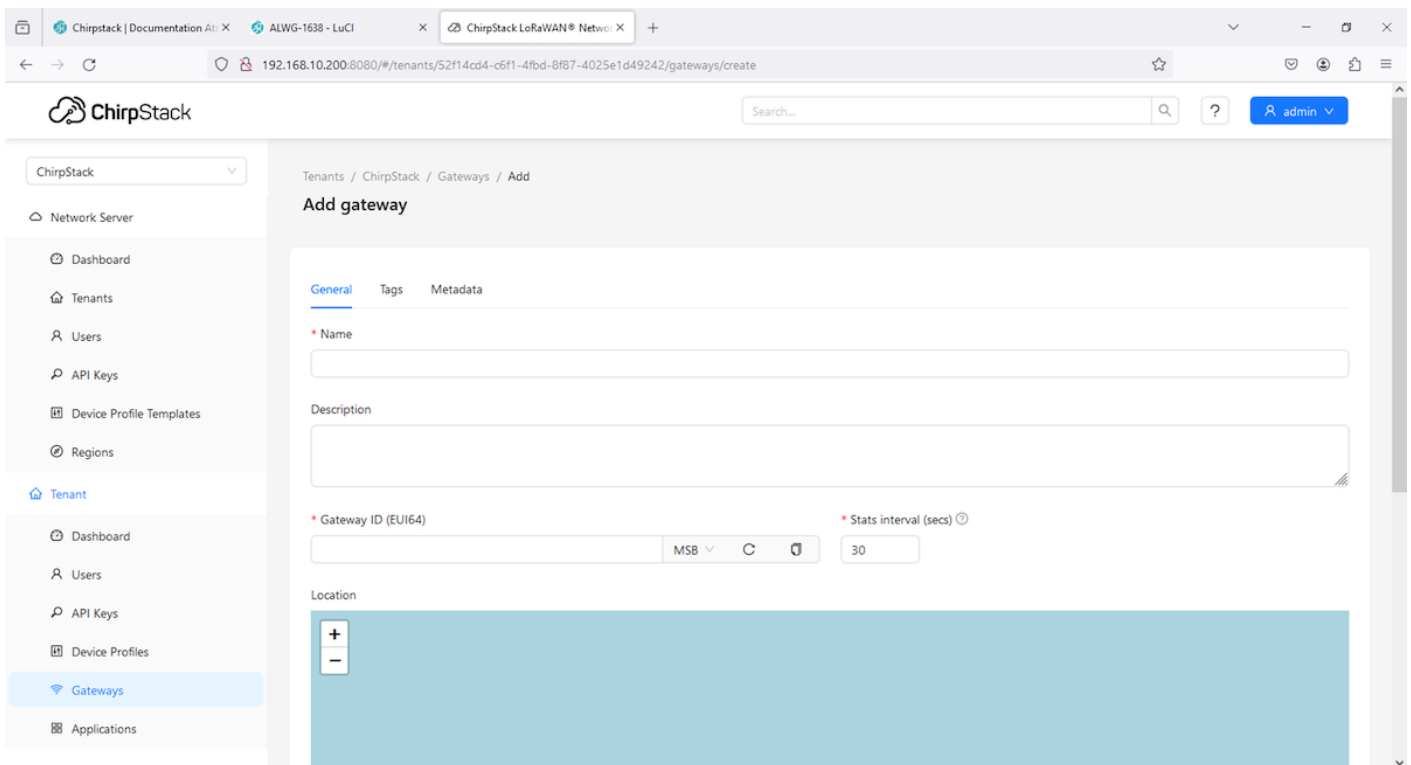
Go to Gateway section in Tenant to add perticular gateway.



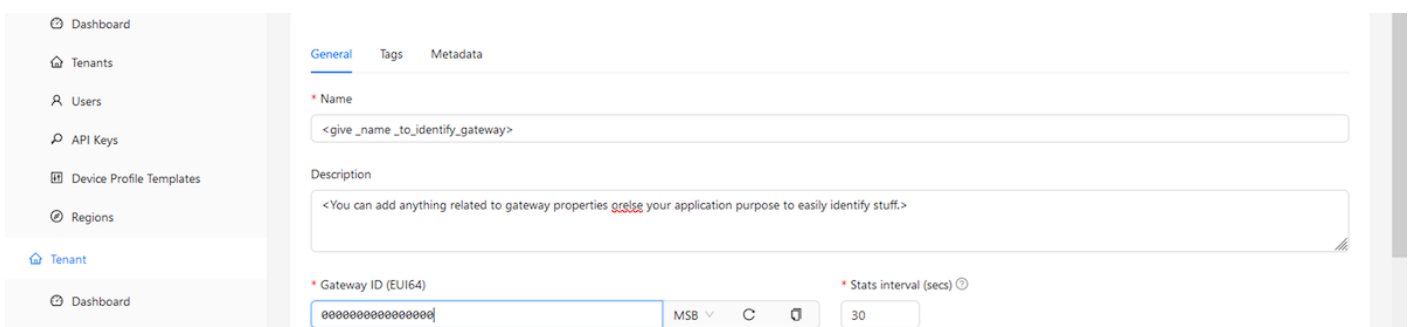
Click on **Add gateway** button.



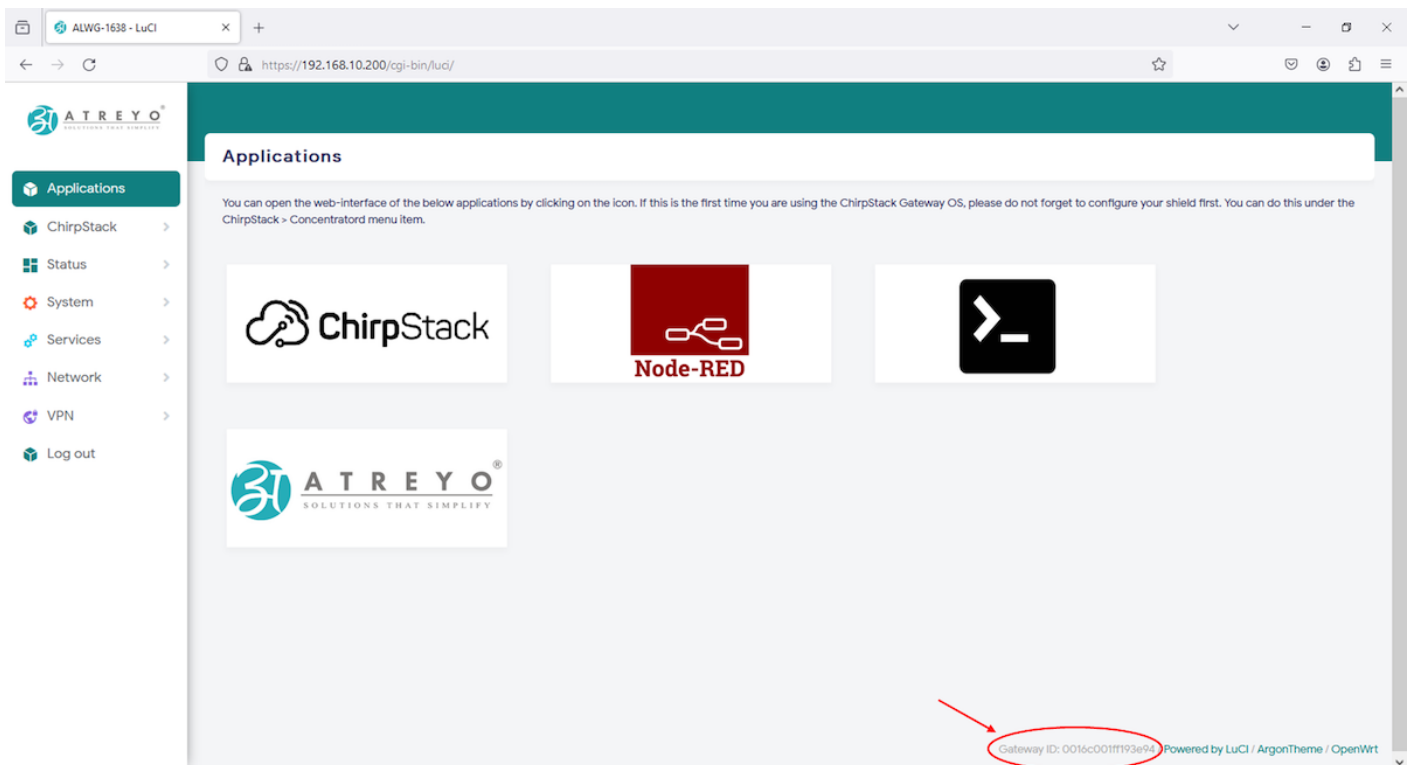
It will open another page and ask for Gateway Name, it's EUI and any description you want to add for sack of your application purpose.



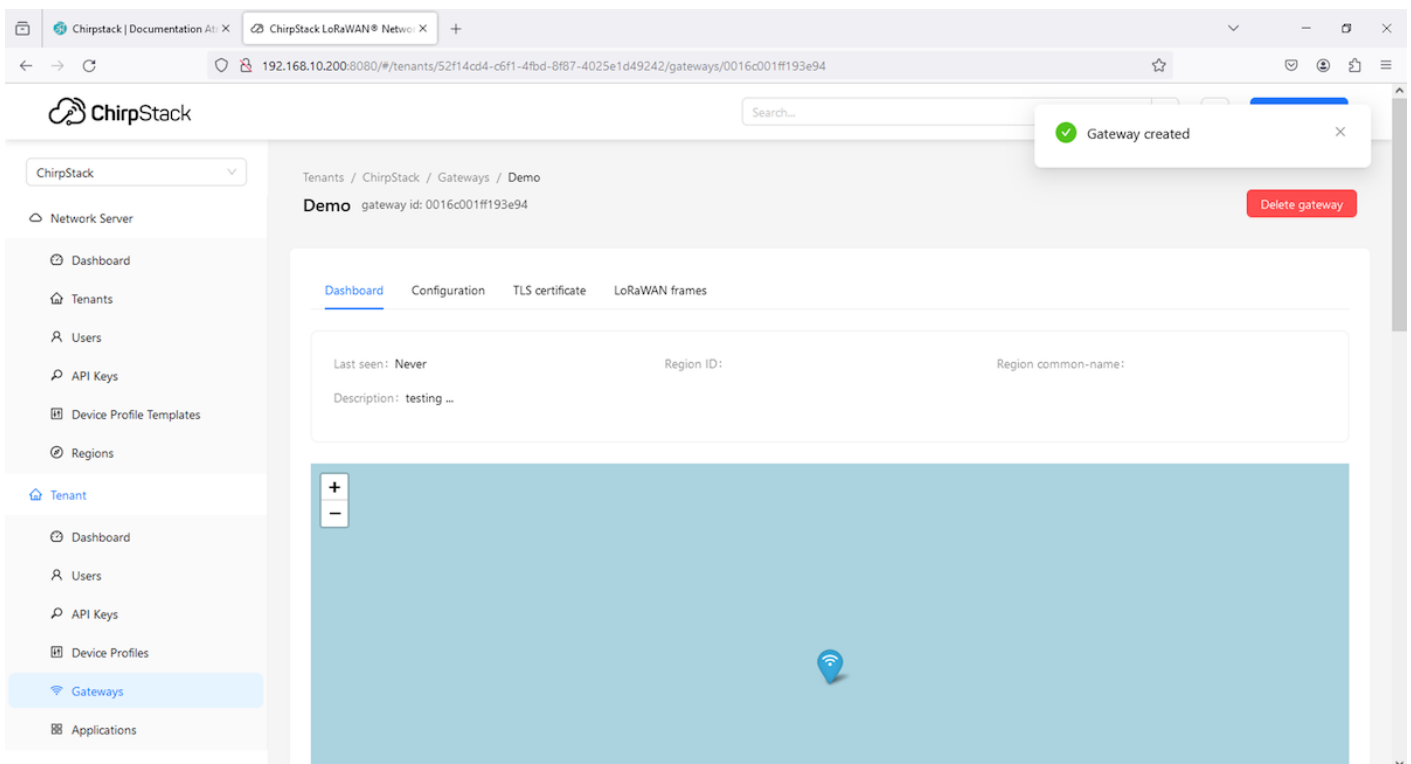
You can add data as per need and **Submit**.



Makesure to findout Gateway ID from gateway webUI as shown in below image.



After submitting all the data pop-up at upper right side will shown to confirm that gateway has been added successfully. and it will open page where you can see Dashboard, it's configuration as well as option to see loraWAN frames.



Last seen will change in a while as well as GPS will be fetched from gateway itself , also the metadata will be fetch from gateway.

Gateway status is also visible in Dashboard section as well as in Gateway section.

ChirpStack

Tenants / ChirpStack

ChirpStack tenant id: 52f14cd4-c6f1-4fbd-8f87-4025e1d49242 [Delete tenant](#)


[Dashboard](#) [Configuration](#)

Active devices

No data

Active gateways

Never seen Offline Online



Device data-rate usage

No data

ChirpStack

Tenants / ChirpStack / Gateways

Gateways [Add gateway](#) [Selected gateways](#)

	Last seen	Gateway ID	Name	Region ID	Region common-name
<input type="checkbox"/> Online	2024-04-02 11:46:39	0016c001f193e94	Demo	in865	IN865

1 / 10 / page

Click on Gateway ID to open Gateway ... (last seen and GPS has been updated after a while).

ChirpStack

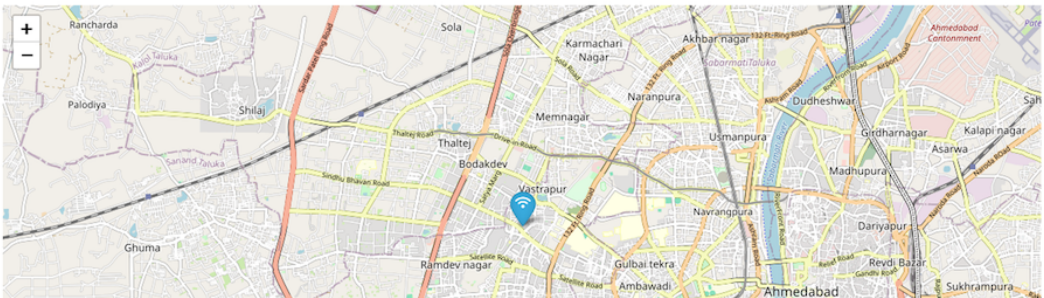
Tenants / ChirpStack / Gateways / Demo

Demo gateway id: 0016c001f193e94 [Delete gateway](#)

[Dashboard](#) [Configuration](#) [TLS certificate](#) [LoRaWAN frames](#)

Last seen: 2024-04-02 11:38:29 Region ID: in865 Region common-name: IN865

Description: testing ...



To change configuration or edit anything got to Configuration tab, you can add tag for easy traceability in Tag tab under Configuration tab as well as gateway metadata will be fetched as shown below.

ChirpStack

Network Server

Dashboard

Tenants

Users

API Keys

Device Profile Templates

Regions

Tenant

Dashboard

Users

API Keys

Device Profiles

Gateways

Applications

Tenants / ChirpStack / Gateways / Demo

Demo gateway id: 0016c001ff193e94

Delete gateway

Dashboard

Configuration

TLS certificate

LoRaWAN frames

General

Tags

Metadata

+ Add tag

Submit

ChirpStack

Network Server

Dashboard

Tenants

Users

API Keys

Device Profile Templates

Regions

Tenant

Dashboard

Users

API Keys

Device Profiles

Gateways

Applications

Tenants / ChirpStack / Gateways / Demo

Demo gateway id: 0016c001ff193e94

Delete gateway

Dashboard

Configuration

TLS certificate

LoRaWAN frames

General

Tags

Metadata

Metadata is pushed by the gateway on every stats update and can be used to expose information about the gateway like ip / hostname, serial number, HAL version.

concentrator_version	4.3.1
config_version	Value
hal_version	Version: 2.1.0:
model	rak_5146
region_common_name	IN865
region_config_id	in865

Submit

In TLS certificate tab you can generate TLS certificate for specific application.

ChirpStack

Network Server

Dashboard

Tenants

Users

API Keys

Device Profile Templates

Regions

Tenant

Dashboard

Users

API Keys

Device Profiles

Gateways

Applications

Tenants / ChirpStack / Gateways / Demo

Demo gateway id: 0016c001ff193e94

Delete gateway

Dashboard

Configuration

TLS certificate

LoRaWAN frames

The gateway client-certificate can be used to connect the gateway in case a client-certificate is required for authentication. Please note that this feature might not be available in case it has not been configured in the server configuration. After the certificate has been generated, store the content of the files on your gateway. **Please note the expiration of the certificate and make sure to renew the certificate on time!**

Generate certificate

Once can download by clicking on **Download** button or open another sidebar to view event by clicking on event.

ChirpStack

Network Server

- Dashboard
- Tenants
- Users
- API Keys
- Device Profile Templates
- Regions

Tenant

- Dashboard
- Users
- API Keys

Tenants / ChirpStack / Gateways / Demo

Demo gateway id: 0016c001ff193e94

Delete gateway

Dashboard Configuration TLS certificate LoRaWAN frames

Download

2024-04-01 18:51:22	UnconfirmedDataUp	DevAddr: 01cae33b
2024-04-01 18:50:50	UnconfirmedDataUp	DevAddr: 005d7efe

Download

2024-04-01 18:51:22	UnconfirmedDataUp	DevAddr: 01cae33b
2024-04-01 18:50:50	UnconfirmedDataUp	DevAddr: 005d7efe
2024-04-01 18:50:08	UnconfirmedDataUp	DevAddr: 0067fdd9
2024-04-01 18:50:00	UnconfirmedDataUp	DevAddr: 01447ec8
2024-04-01 18:49:41	UnconfirmedDataUp	DevAddr: 01cae33b

Gateway | Documentation Atr: X ChirpStack LoRaWAN® Netwo: X

192.168.10.200:8080/#/tenants/52f14cd4-c5f1-4fbd-8f87-4025e1d49242/gateways/0016c001ff193e94/frames

ChirpStack

Search...

admin

ChirpStack

Network Server

- Dashboard
- Tenants
- Users
- API Keys
- Device Profile Templates
- Regions

Tenant

- Dashboard
- Users
- API Keys
- Device Profiles
- Gateways**
- Applications

Tenants / ChirpStack / Gateways / Demo

Demo gateway id: 0016c001ff193e94

Dashboard Configuration TLS certificate LoRaWAN frames

2024-04-01 18:51:22	UnconfirmedDataUp	DevAddr: 01cae33b
2024-04-01 18:50:50	UnconfirmedDataUp	DevAddr: 005d7efe
2024-04-01 18:50:08	UnconfirmedDataUp	DevAddr: 0067fdd9
2024-04-01 18:50:00	UnconfirmedDataUp	DevAddr: 01447ec8
2024-04-01 18:49:41	UnconfirmedDataUp	DevAddr: 01cae33b
2024-04-01 18:49:40	UnconfirmedDataUp	DevAddr: 00603b76
2024-04-01 18:49:27	UnconfirmedDataUp	DevAddr: 00603b76

```
phy_payload: {} 3 keys
  mhdr: {} 2 keys
    m_type: "UnconfirmedDataUp"
    major: "LoRaWANR1"
  mic: {} 4 items
    0: 149
    1: 161
    2: 130
    3: 25
  payload: {} 3 keys
    f_port: 9
    fhdr: {} 4 keys
      devaddr: "01cae33b"
      f_cnt: 45
      f_ctrl: {} 6 keys
        ack: false
        adr: true
        adr_ack_req: false
        class_b: false
        f_opts_len: 0
        f_pending: false
        f_opts: {} 0 items
      frm_payload: "d662431b3430d5d18795ca46bd3fd8433083ab8ca5b8a46bddaee28bbfc1eb017989057a43b23ce813c7ea69cd6489ca36"
    rx_info: {} 1 item
      0: {} 7 keys
        context: "UcYm9Q=="
        crcStatus: "CRC_OK"
        gatewayId: "0016c001ff193e94"
        metadata: {} 2 keys
          region_common_name: "IN865"
          region_config_id: "in865"
        rssi: -113
        snr: 1.5
        uplinkId: 933966086
```

Revision #1

Created 25 February 2025 13:04:09 by Admin

Updated 28 February 2025 16:01:42 by Admin