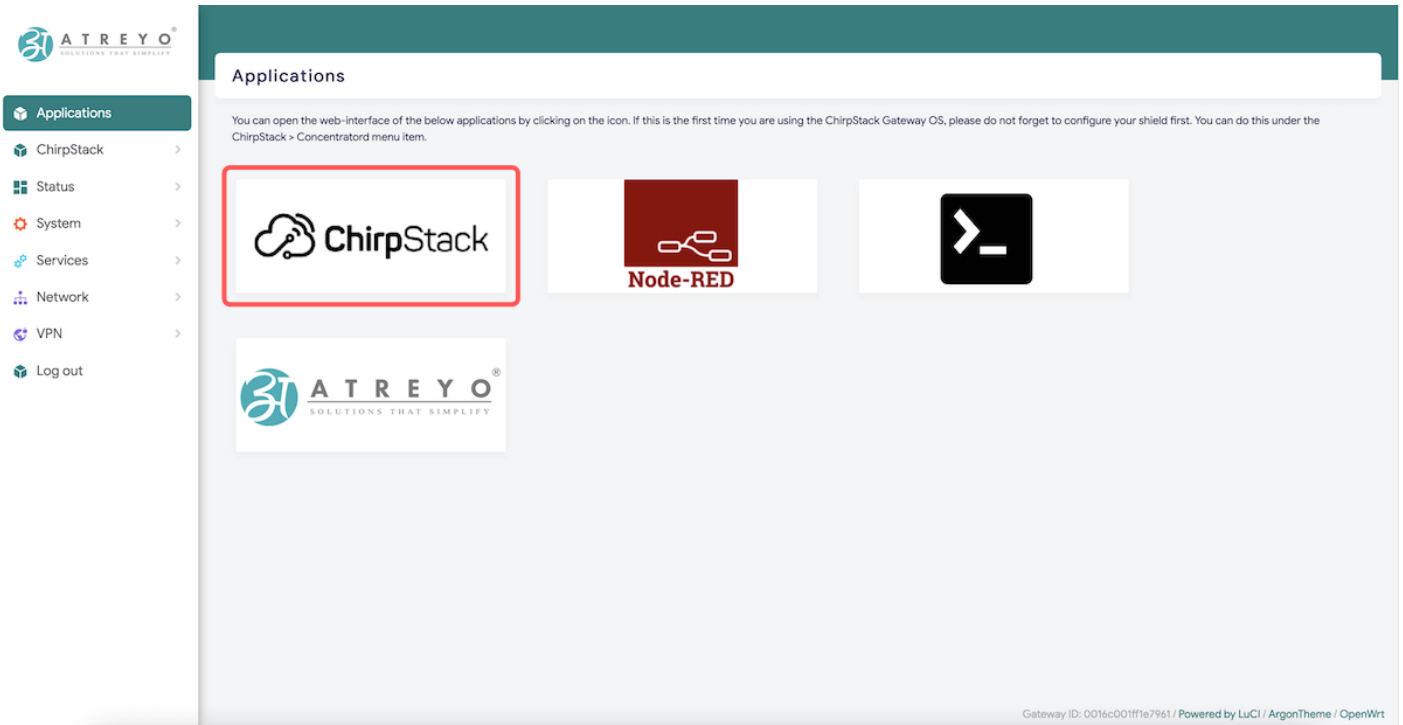


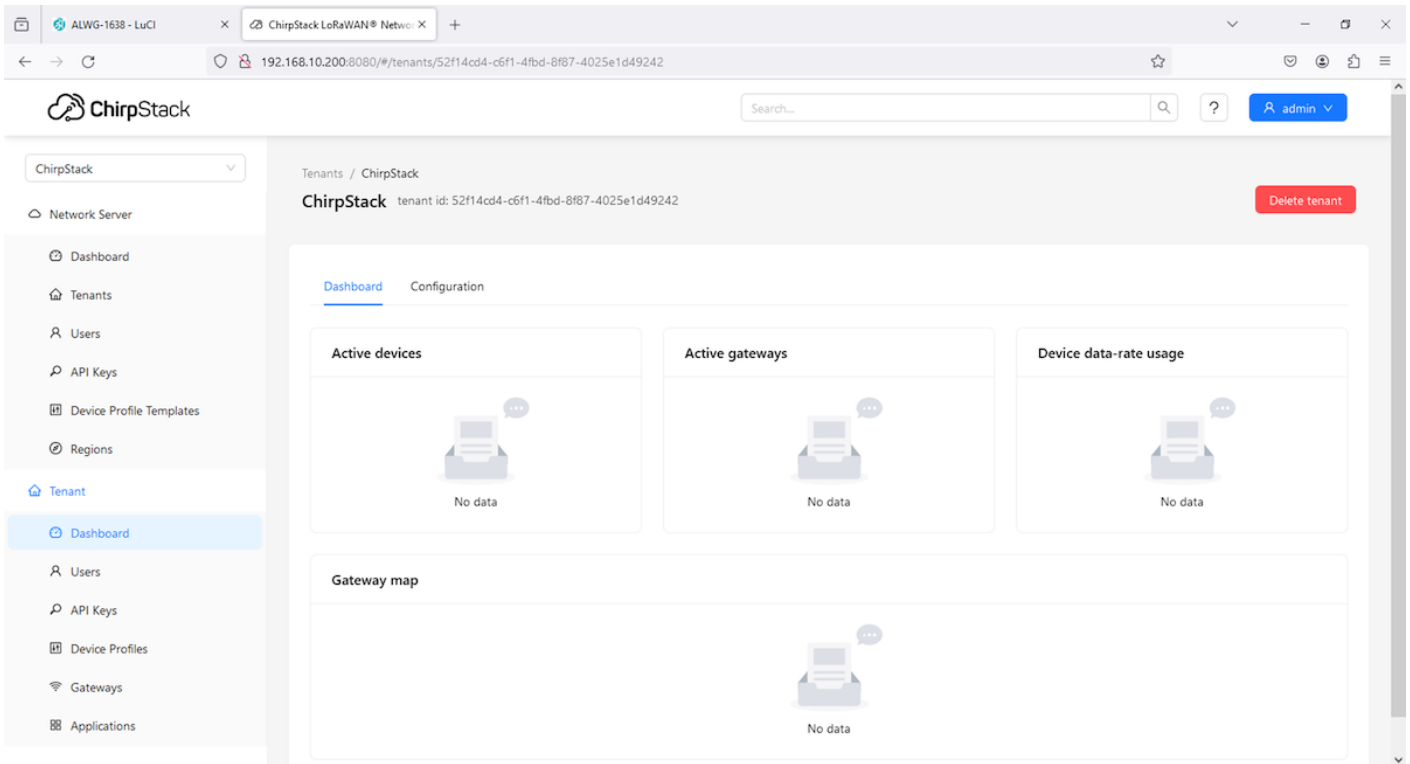
# Chirpstack LNS

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.

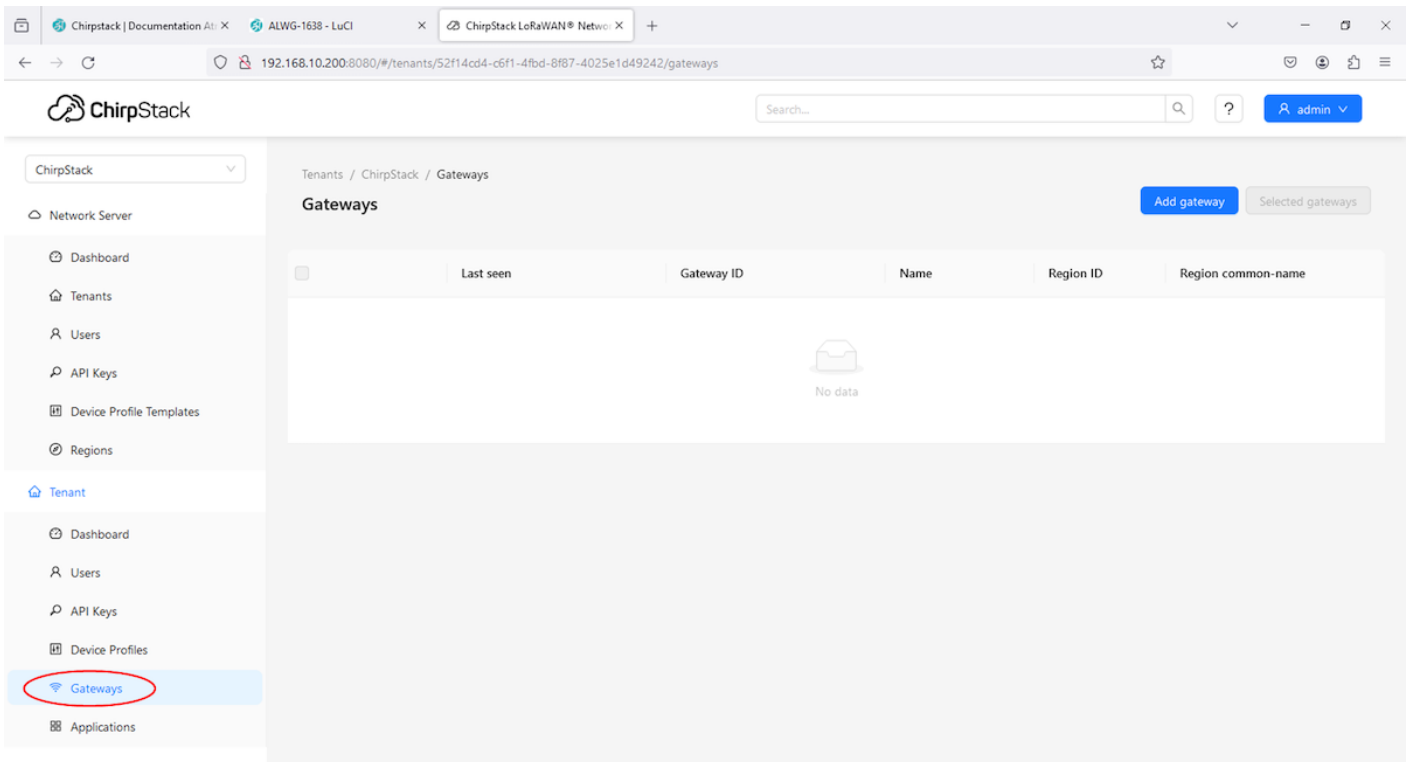
to **Add gateway** in chirpstack LNS open chirpstack LNS by clicking the icon in Application.



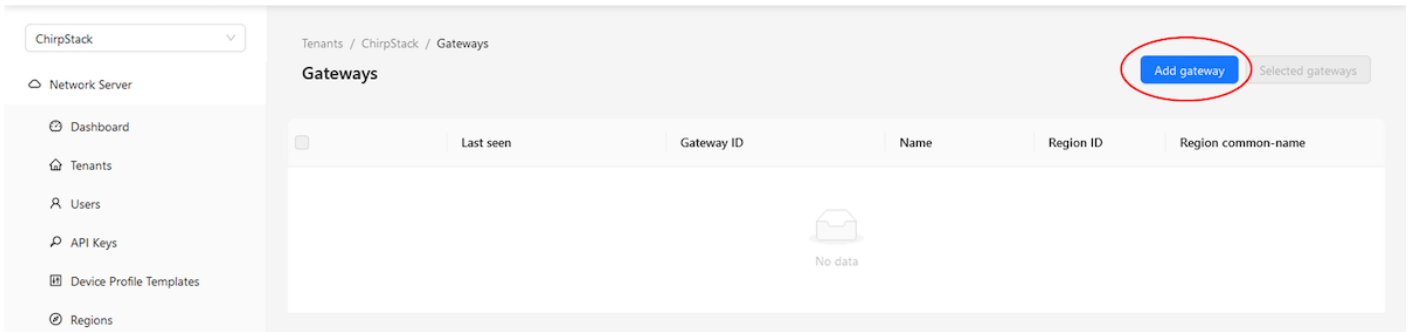
Login pop-up will appear, use admin/admin as user/pass. After login the screen will be like:



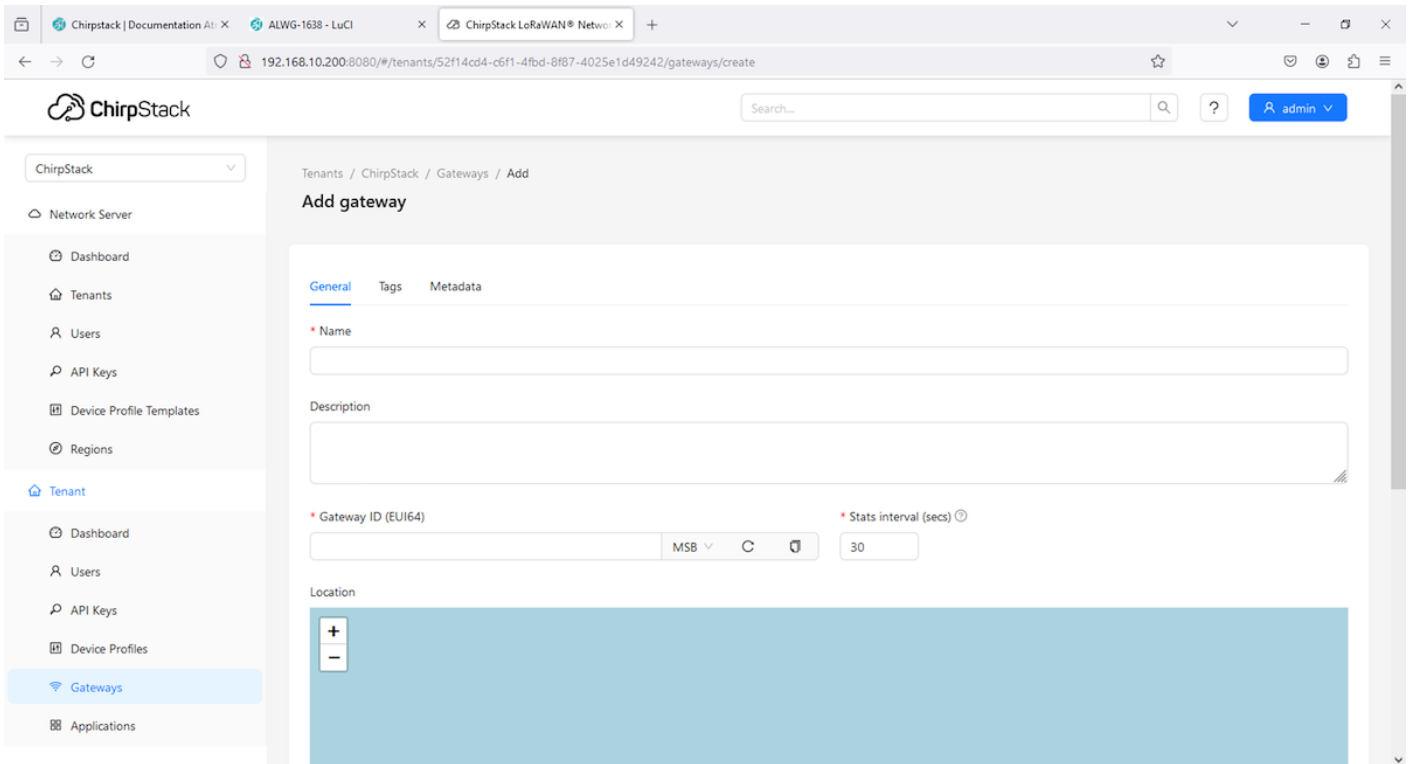
Go to Gateway section in Tenant to add particular gateway.



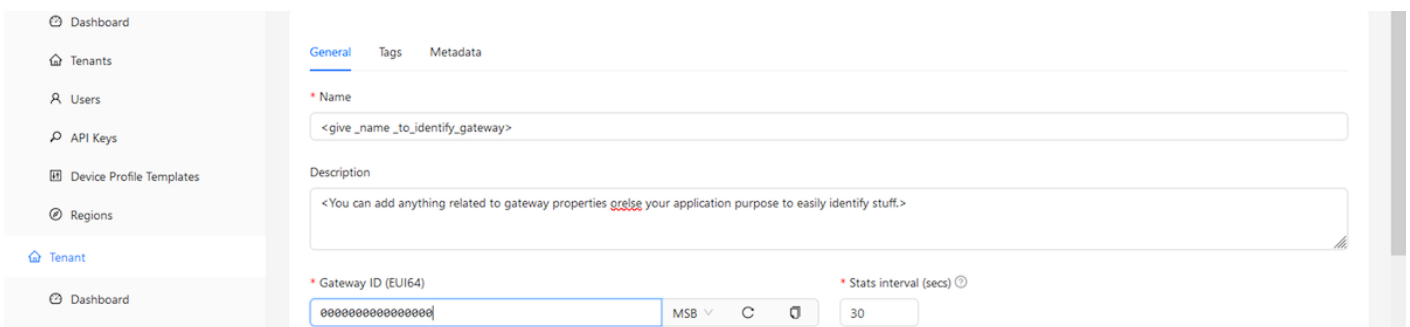
Click on **Add gateway** button.



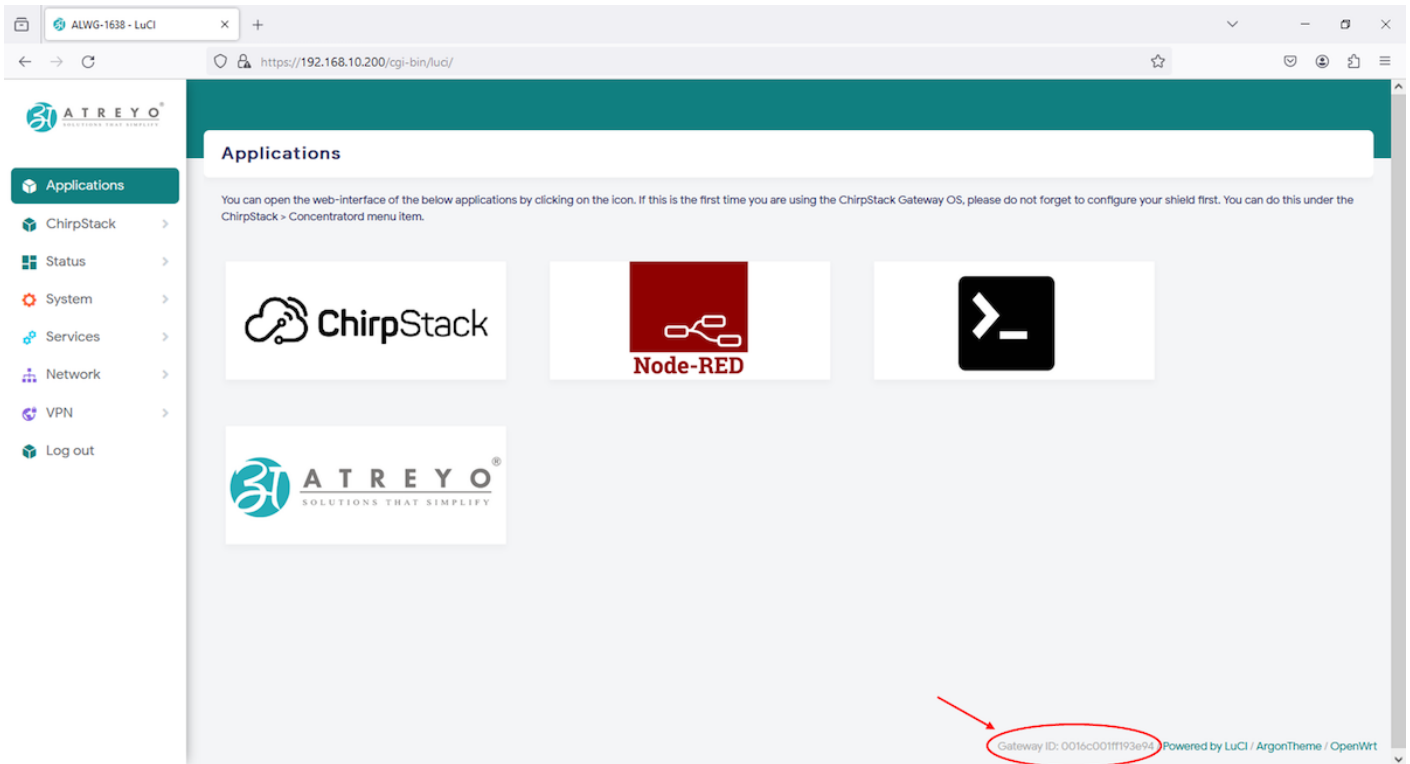
It will open another page and ask for Gateway Name, it's EUI and any description you want to add for sack of your application purpose.



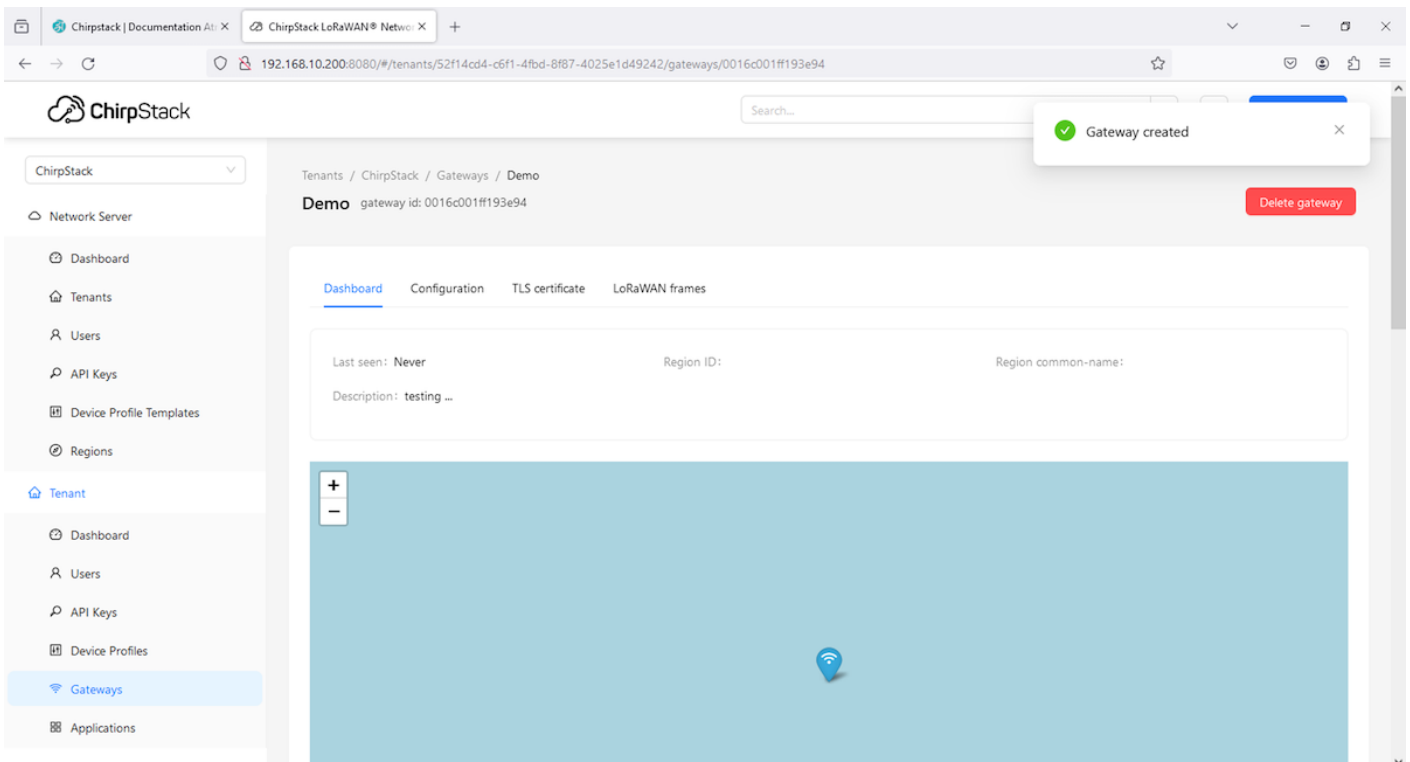
You can add data as per need and **Submit**.



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.

ALWG-1638 - LuCI | ChirpStack LoRaWAN® Netwo... X

192.168.10.200:8080/#/tenants/52f14cd4-c6f1-4fbd-8f87-4025e1d49242

ChirpStack

Tenants / ChirpStack

**ChirpStack** tenant id: 52f14cd4-c6f1-4fbd-8f87-4025e1d49242 Delete tenant

Dashboard Configuration

**Active devices**  
No data

**Active gateways**  
Legend: Never seen (orange), Offline (red), Online (green)

**Device data-rate usage**  
No data

ChirpStack

Tenants / ChirpStack / Gateways

**Gateways** Add gateway Selected gateways

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

< 1 > 10 / page

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

ChirpStack

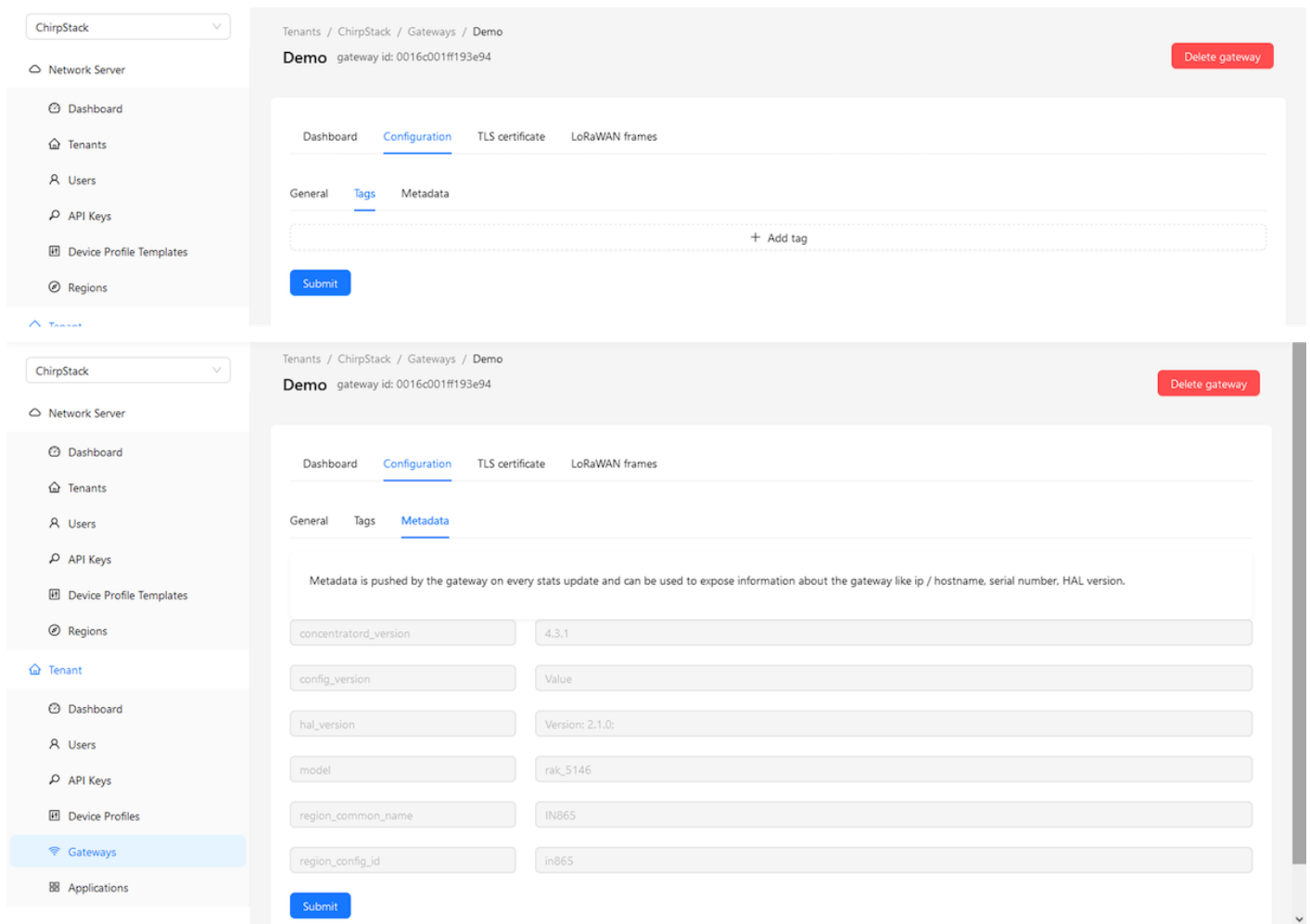
Tenants / ChirpStack / Gateways / Demo

**Demo** gateway id: 0016c001f193e94 Delete gateway

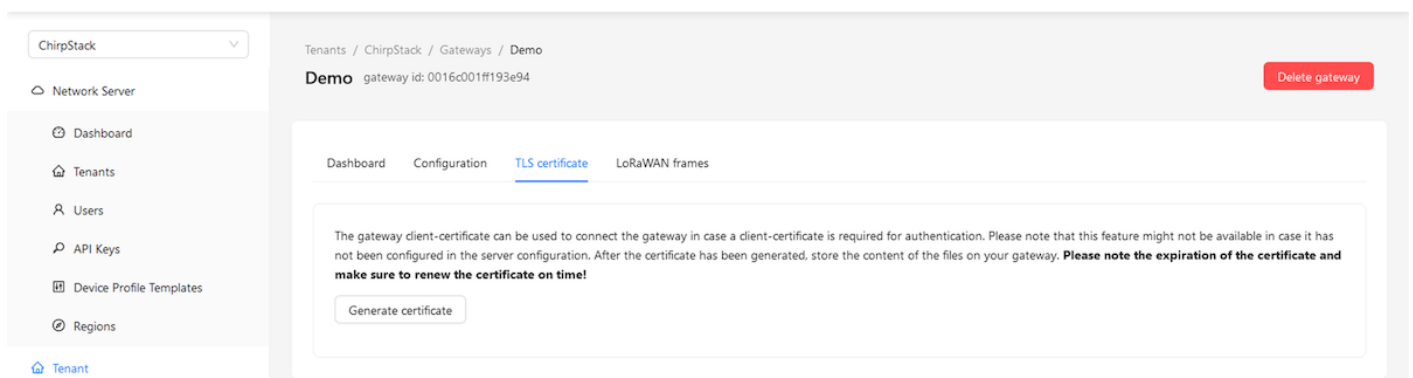
Dashboard Configuration TLS certificate LoRaWAN frames

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.



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



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

ChirpStack

Tenants / ChirpStack / Gateways / Demo

Demo gateway id: 0016c001ff193e94 Delete gateway

Dashboard Configuration TLS certificate LoRaWAN frames

Download

2024-04-01 18:51:22	<span>UnconfirmedDataUp</span>	DevAddr: 01cae33b
2024-04-01 18:50:50	<span>UnconfirmedDataUp</span>	DevAddr: 005d7efe

ChirpStack

Tenants / ChirpStack / Gateways / Demo

Demo gateway id: 0016c001ff193e94 Delete gateway

Dashboard Configuration TLS certificate LoRaWAN frames

Download

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

Gateway | Documentation Atr... ChirpStack LoRaWAN® Netwo... +

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

ChirpStack

Tenants / ChirpStack / Gateways / Demo

Demo gateway id: 0016c001ff193e94

Dashboard Configuration TLS certificate LoRaWAN frames

2024-04-01 18:51:22	<span>UnconfirmedDataUp</span>	DevAddr: 01cae33b
2024-04-01 18:50:50	<span>UnconfirmedDataUp</span>	DevAddr: 005d7efe
2024-04-01 18:50:08	<span>UnconfirmedDataUp</span>	DevAddr: 0067fdd9
2024-04-01 18:50:00	<span>UnconfirmedDataUp</span>	DevAddr: 01447ec8
2024-04-01 18:49:41	<span>UnconfirmedDataUp</span>	DevAddr: 01cae33b
2024-04-01 18:49:40	<span>UnconfirmedDataUp</span>	DevAddr: 00603b76
2024-04-01 18:49:27	<span>UnconfirmedDataUp</span>	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: "d662431b3430d5d18795ca460bd3f4d8433083ab8ca5b8a46bddaee28bbf1eb017989057a43b23ce813c7ea69cd6489ca36"
    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 2025-02-25 13:04:09 UTC by Yogesh

Updated 2025-02-28 16:01:42 UTC by Yogesh