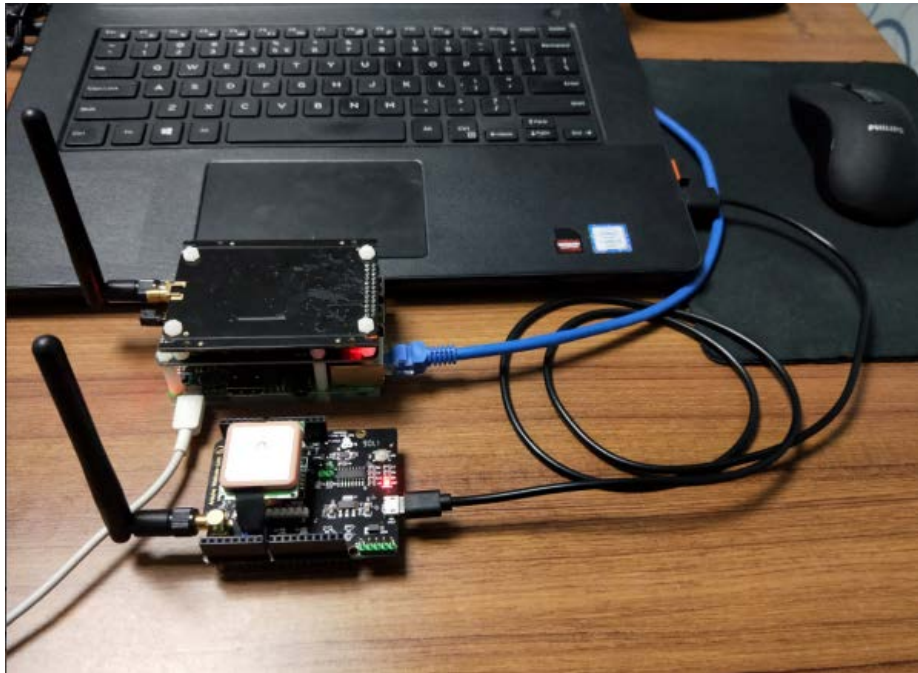


Raspberry+RAK831 网关演示教程

1. raspberry 网关连接电源线、电缆，LoRa 节点连接电源（LoRa 节点必须放在外面，这样可以用于 GPS 定位）。

开机后，raspberry pie 将自动加入网关的节点网关，操作方法请参考图片。



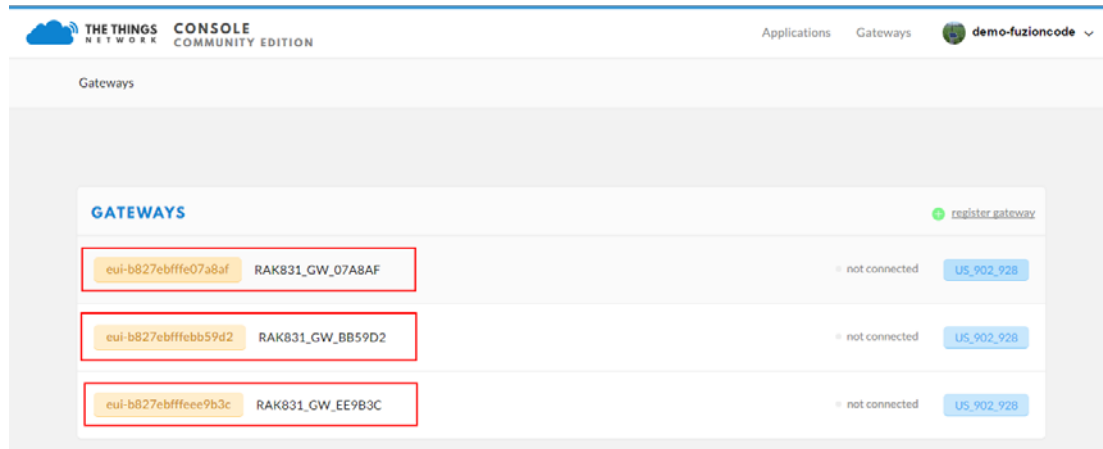
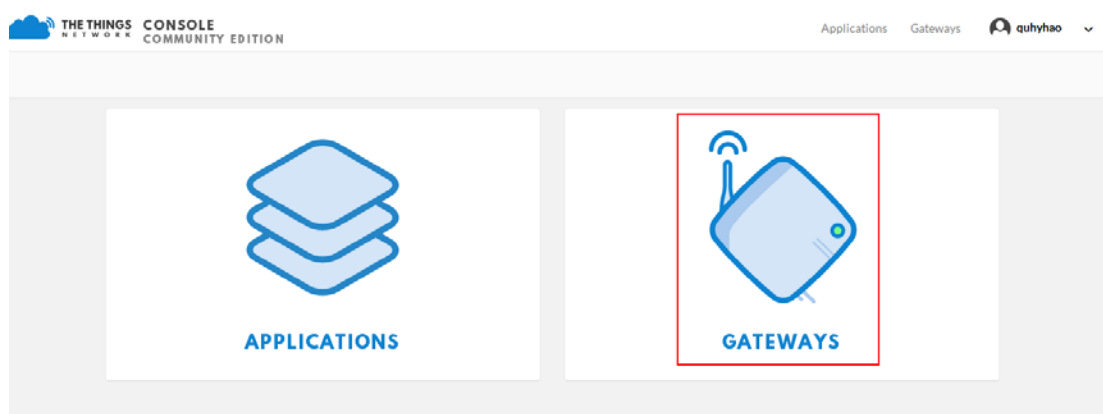
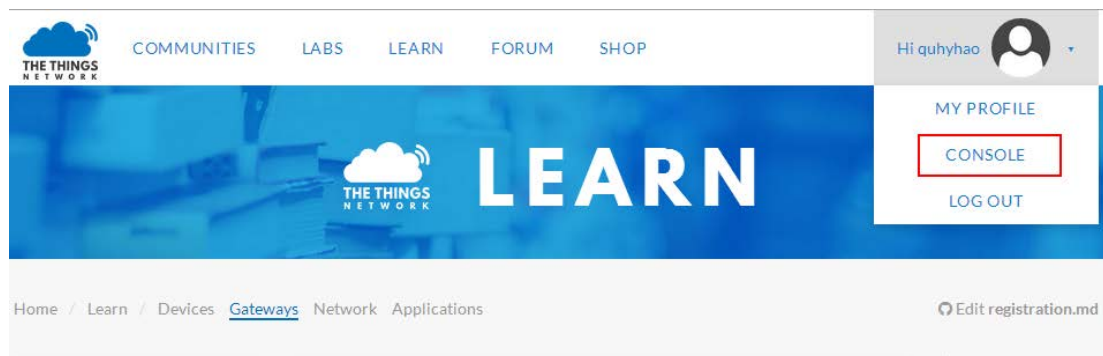
运行 raspberry:

```
cd /opt/ttn-gateway/bin;  
sudo ./start.sh;
```

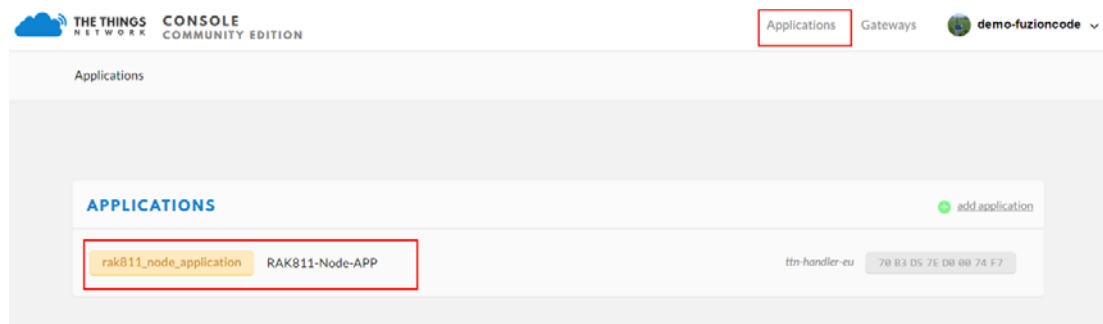
```
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
Last login: Tue Sep 19 03:17:20 2017  
pi@ttn-gateway:~$ cd /opt/ttn-gateway/bin  
pi@ttn-gateway:/opt/ttn-gateway/bin$ sudo ./start.sh  
/opt/ttn-gateway/gateway-remote-config /opt/ttn-gateway/bin  
Already up-to-date.  
HEAD is now at 6c40e0a Merge pull request #272 from kostaman/master-1  
/opt/ttn-gateway/bin  
[TTN Gateway]: Use Gateway EUI B827EBFFFE52FDFA based on wlan0  
*** Poly Packet Forwarder for Lora Gateway ***  
Version: 2.1.0  
*** Lora concentrator HAL library version info ***  
Version: 3.1.0; Options: native;  
***
```

```
Connecting to 192.168.0.190:22...  
Connection established.  
To escape to local shell, press 'Ctrl+Alt+]'.  
  
Linux ttn-gateway 4.9.41-v7+ #1023 SMP Tue Aug 8 16:00:15 BST 2017 armv7l  
  
The programs included with the Debian GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
Last login: Tue Sep 19 03:17:20 2017  
pi@ttn-gateway:~$ cd /opt/ttn-gateway/bin  
pi@ttn-gateway:/opt/ttn-gateway/bin$ █
```

2. 打开 TTN，控制台-网关-选择相匹配网关的名字-RAK831 连接到这个 TTN 服务期；



3. 选择应用—rak811_node_应用—设备—选择相匹配的节点名字—选择重置帧计数器—选择数据，当节点自动与网关配对后，将有一个打印日志。



THE THINGS NETWORK CONSOLE COMMUNITY EDITION Applications Gateways demo-fuzioncode

Applications > rak811_node_application

Overview **Devices** Payload Formats Integrations Data Settings

APPLICATION OVERVIEW

Application ID `rak811_node_application` [documentation](#)

Description RAK811-Node-APP

Created 4 days ago

Handler `ttn-handler-eu` (current handler)

THE THINGS NETWORK CONSOLE COMMUNITY EDITION Applications Gateways demo-fuzioncode

Applications > rak811_node_application > Devices

Overview **Devices** Payload Formats Integrations Data Settings

DEVICES

[register device](#)

< > 1 - 3 / 3

<code>rak811_node_000001</code> RAK811-Node-000001	60 C5 A8 FF EE 00 00 01	●
<code>rak811_node_000002</code> RAK811-Node-000002	60 C5 A8 FF EE 00 00 02	●
<code>rak811_node_000003</code> RAK811-Node-000003	60 C5 A8 FF EE 00 00 03	●

THE THINGS NETWORK CONSOLE COMMUNITY EDITION Applications Gateways demo-fuzioncode

Applications > rak811_node_application > Devices > `rak811_node_000001`

Network Session Key <> ☰ ☰ ☰

App Session Key <> ☰ ☰ ☰

Status ● 2 days ago

Frames up 1 [reset frame counters](#)

Frames down 0

THE THINGS NETWORK CONSOLE COMMUNITY EDITION Applications Gateways demo-fuzioncode

Applications > rak811_node_application > Devices > `rak811_node_000001`

Overview **Data** Settings

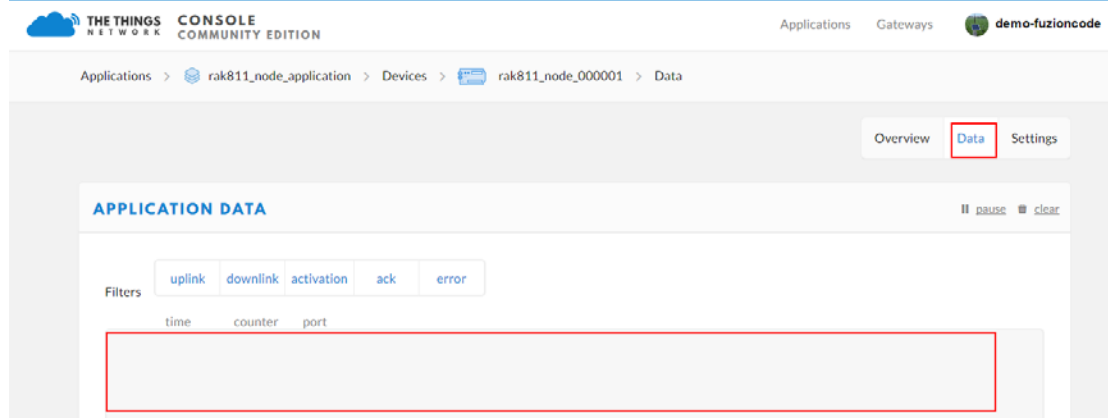
DEVICE OVERVIEW

Application ID `rak811_node_application`

Device ID `rak811_node_000001`

Description RAK811-Node-000001

Activation Method `ABP`



4. 打开 Cayenne 视图位置信息，选择相应的节点名称查看信息。

