# EXPERIMENT -07 CONFIGURING NETWORK SERVER FOR CONNECTING GATEWAY AND END NODE

Aim: To configure the Network server and end device for traferring data on the network

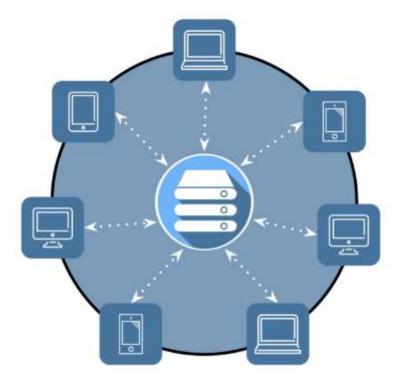
Components required: end node stm 32 development kit, dragino LPS8, network server

## Theory:

When working with sensitive applications or files, saving progress on your local device is a start, but what if you lose access to your device? Network servers address this problem by hosting the files and programs most pertinent to the network and enabling access for consistent, real-time use.

As a result, personnel or network clients can instantly access important data or tools while also facilitating collaboration between users. Multiple users can make changes to the same program or document for continued development over the course of a project. Via a secure login, remote users

## **Network Server**



can connect to the home network.

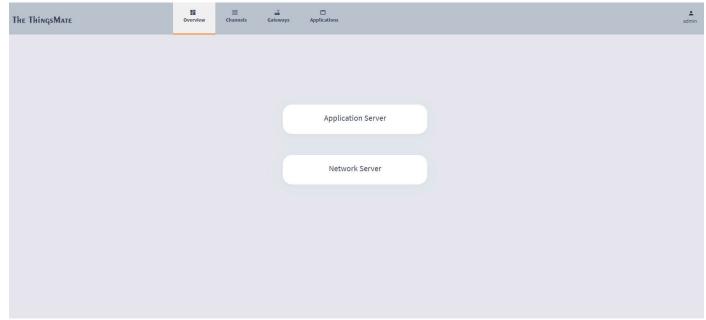
In the above graphic, the circle represents an organization network where a network server facilitates collaboration and file sharing between network clients (devices).

The role of a network server, then, is to provide users with a set of services and access to resources on the network. These features include:

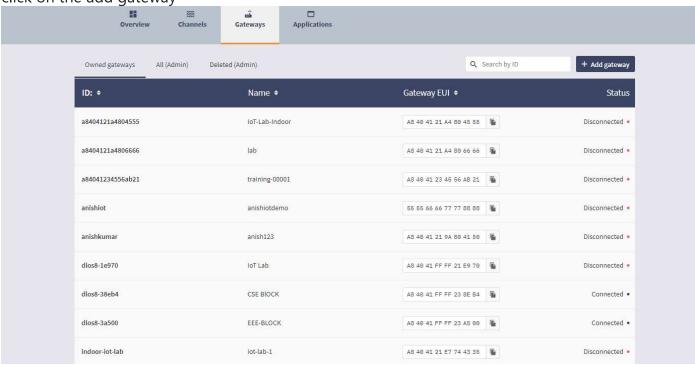
Permissioned access and log-ins for network users Gateway access to the Internet for an organization Centralized location for network resources Shared access to devices on the network like a printer or a scanner Hosts multi-user apps like email servers, web applications, or CRM

#### Procedure:

- 1. login to the network server using login link https://iot.saveetha.in/
- 2. Click on the nework server as shown blow



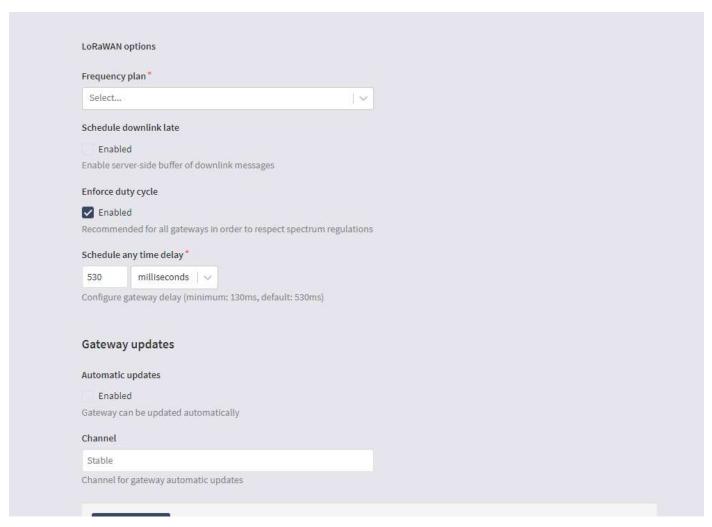
3. click on the add gateway



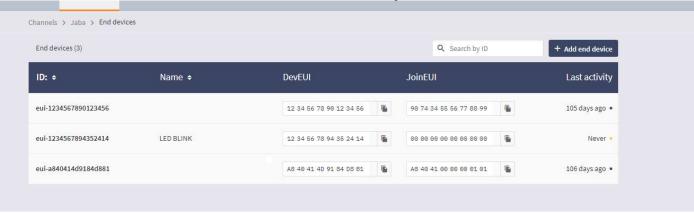
# Add gateway

#### General settings

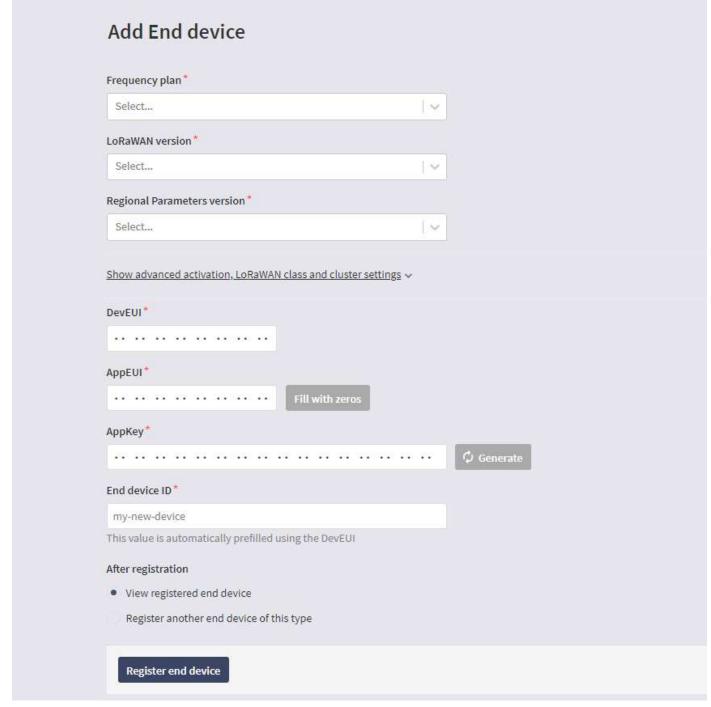
General Settings			
Owner*			
admīn	· ·		
Gateway ID*			
my-new-gateway			
Gateway EUI			
Gateway EUI			
Gateway name			
My new gateway			
Gateway description			
Description for my new gateway			
Optional gateway description; can also be used t	to save notes about the gateway		
Gateway Server address			
iot.saveetha.in			
The address of the Gateway Server to connect to	)		
Require authenticated connection			
Enabled			
Controls whether this gateway may only connect	t if it uses an authenticated Basic S	tation or MQTT connection	
Gateway status			



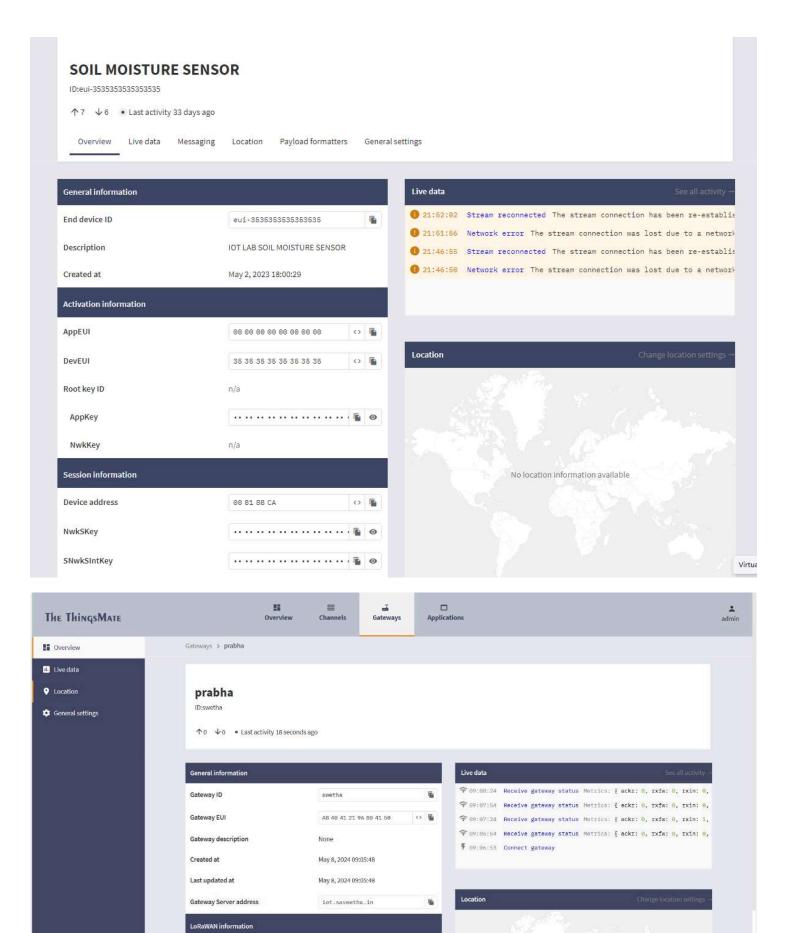
- 4. click on the lora options, lora frequency plan
- 5. click on channel s and create a new channel after which you can add a new end device



6. add the attributesin the end device as shown below



### **OUTPUT**



Frequency plan

Global configuration

IN\_865\_867

# Results:

The Network server and end device for traferring data on the network has been accomplished.