Building end-to-end secured private LoRaWAN™ networks in AWS Cloud
Building end-to-end secured private LoRaWAN™ networks on AWS

The Things Industries brings you the required resources for your LoRaWAN™ development, while we help control costs and speed up time-to-market. Our enterprise grade stack will meet your requirements for security, scalability and robustness. Our customers rate us high on product quality and support provided.

The essentials

We offer a feature-complete LoRaWAN network server that ticks all the boxes.

- Supports LoRaWAN 1.0.x, 1.1.x
- Supports LoRaWAN device Classes A, B and C
- Supports LoRaWAN gateways using open source UDP and Basics Station protocols
- Supports LoRaWAN Regional Parameters for global deployments. Supports custom frequency plans.
- Supports LoRaWAN Backend Interfaces for roaming and trusted join
- Supports LoRaWAN multicast, fragmented data block transfer and time synchronization
- Follows LoRaWAN Network Reference Model
- Offers comprehensive debugging tools for quick root cause analysis
- Offers to set fine-grained device level MAC and PHY settings
- Offers an open source device repository with pre-defined payload formats

Deployment scenarios

(Dedicated) Cloud Hosted
Software as a Service, deployed on The Things Industries' AWS Cloud.

Virtual Private Cloud
Run the Network Server in your own AWS cloud account.

On-Site
The routing services can run locally, or even embedded on your gateway.

Security configurations

Secure element
We offer Microchip secure elements containing TTI root keys enabling end-to-end security.

Join Server Flexibility
Control keys in your own domain, or let us in a certified environment. Easily switch networks.

Firmware Over The Air Updates
Extend your devices' life cycle by running firmware updates over LoRaWAN.

Advanced features

Geolocation
Integrate with 3rd party geo-localization services using LoRa TDOA, WiFi and BLE RSSI.

IoT platform integrations
Zero-effort interactions with AWS IoT Core and flexible APIs.

Peering
Expand your reach by exchanging traffic between The Things Network and your private LoRaWAN network.

Solution available in AWS Marketplace.