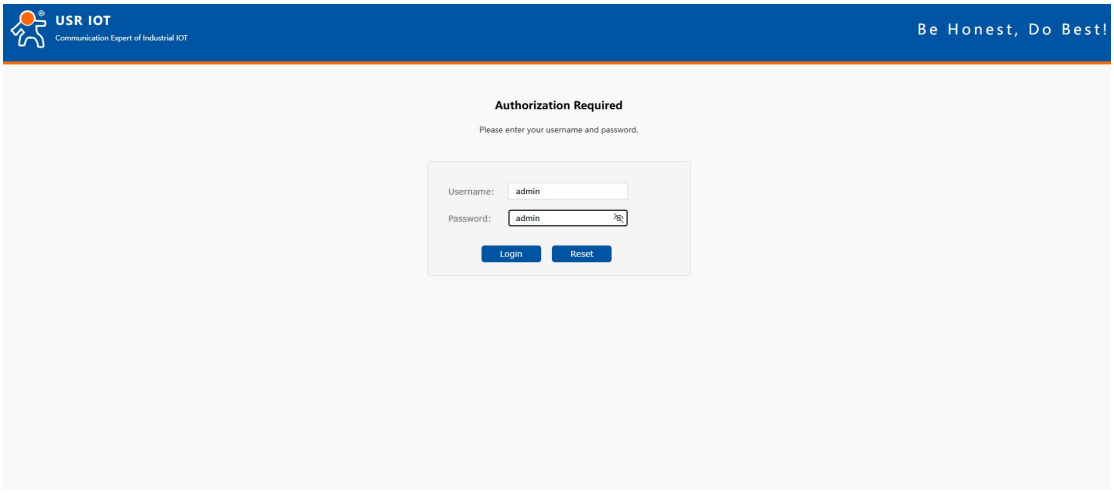
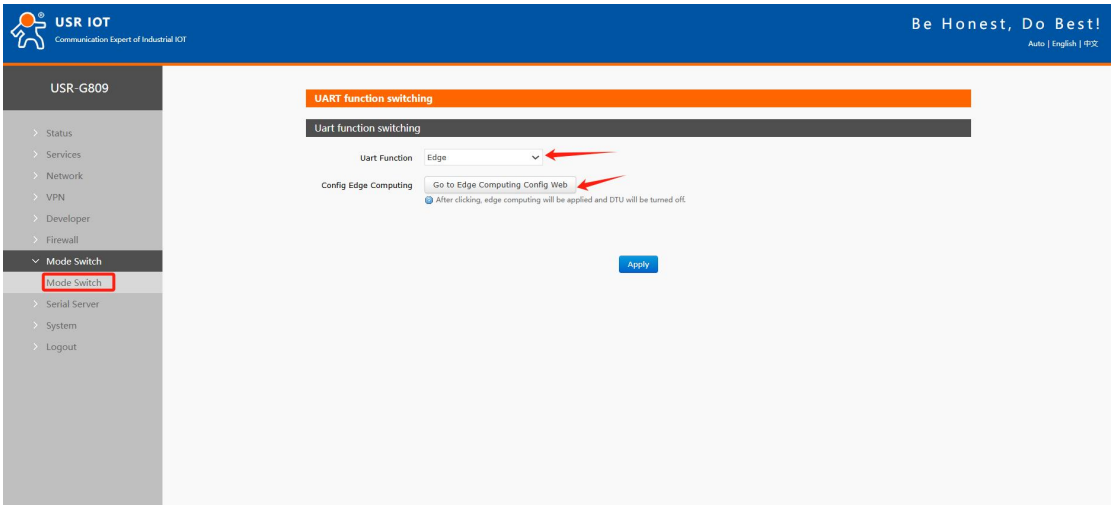
1. MQTT Edge Computing

Open the browser and enter: 192.168.1.1 to log in to the built-in webpage,

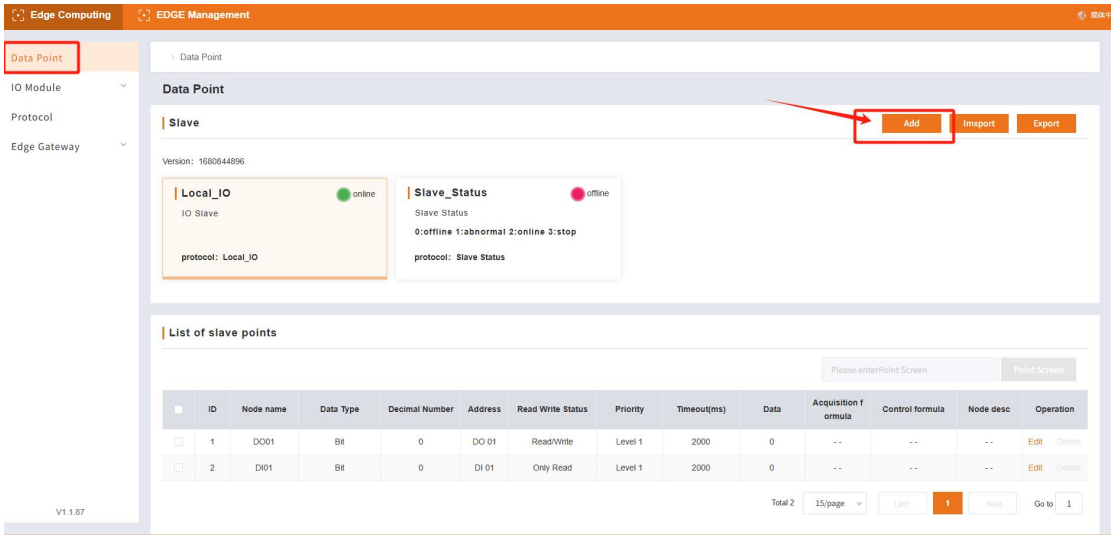
then input the initial username/password: admin/admin

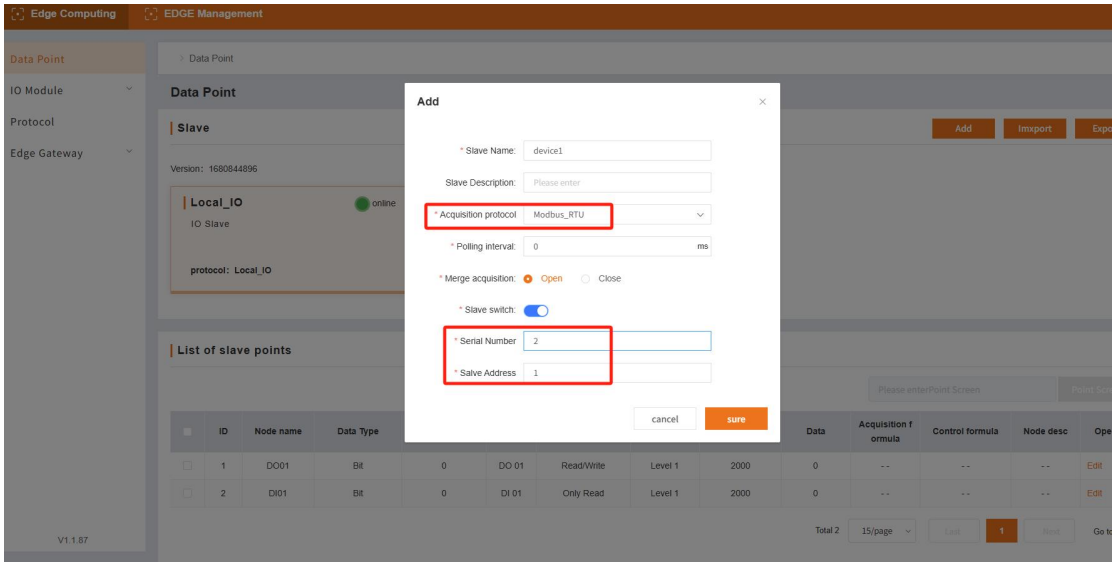


Find the mode switch - select "Edge Computing" - click "Switch to Edge Computing Mode Configuration Page"

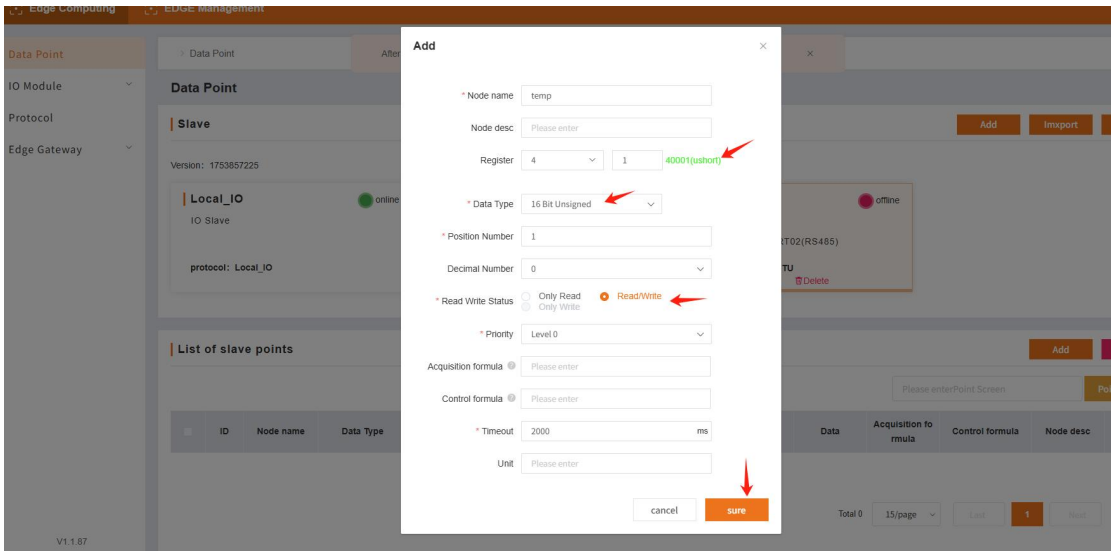


Click "Data Points" - click "Add" to add a slave device. In the example, RS485 is connected, select the Modbus RTU protocol, and the RS485 serial port number is 2.

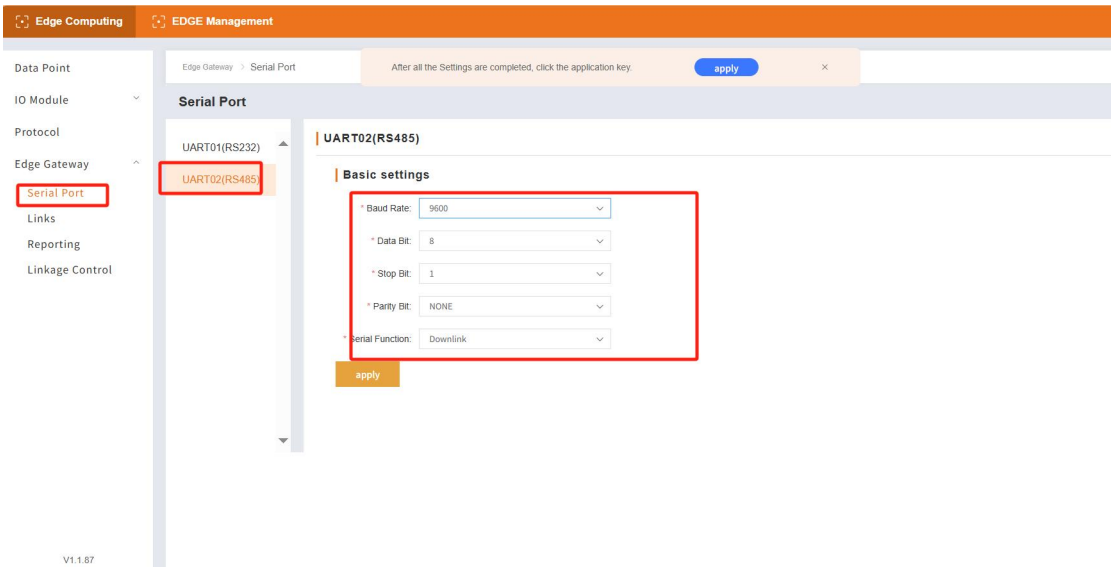




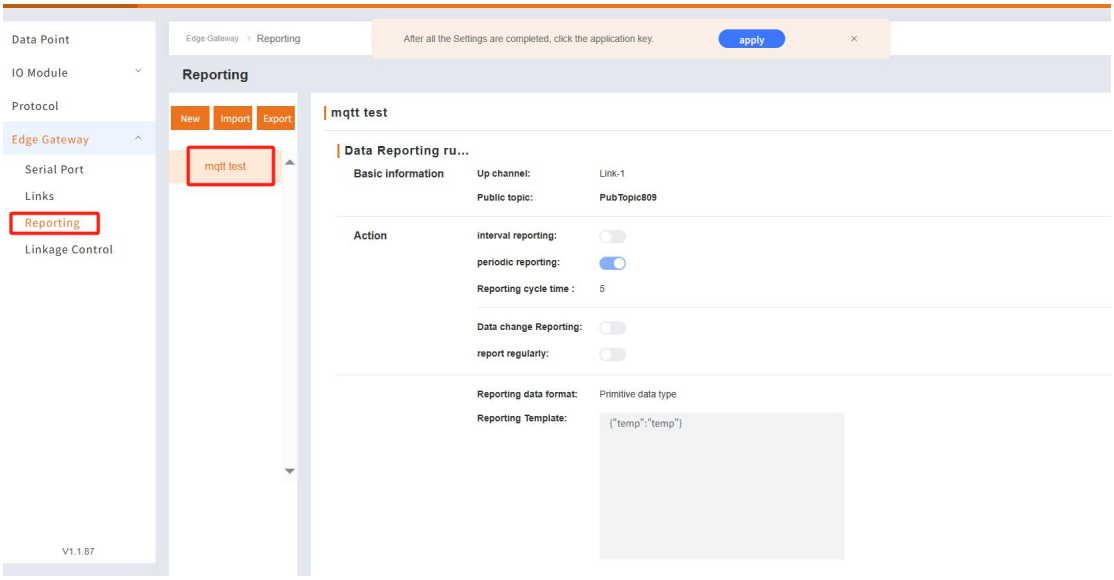
Click "Add slave points"

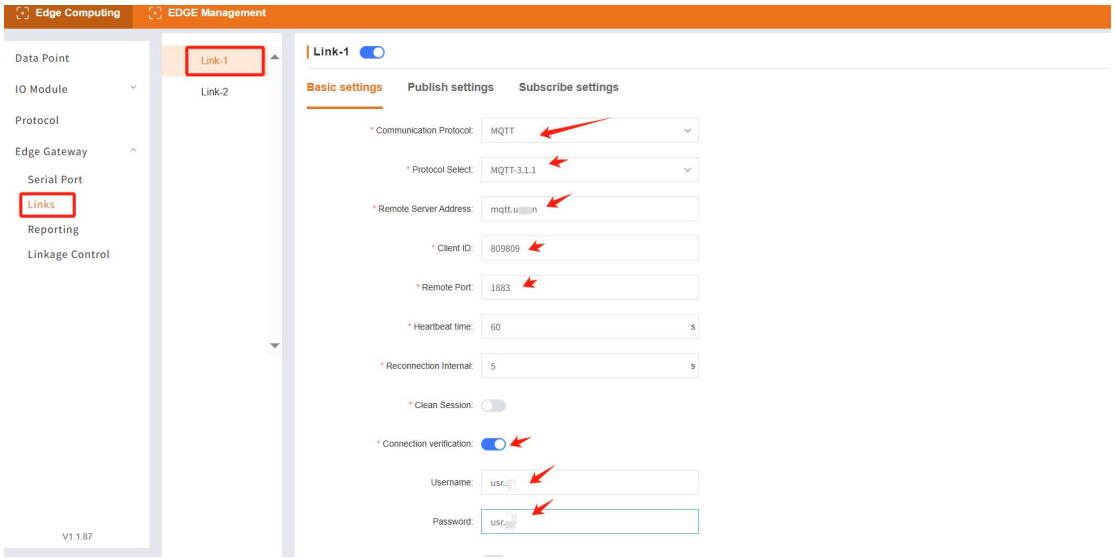


Click "Edge Gateway" - click "Serial Port Management" - set the parameters of Serial Port 2, and note that they should be consistent with the parameters of the actual serial port device.



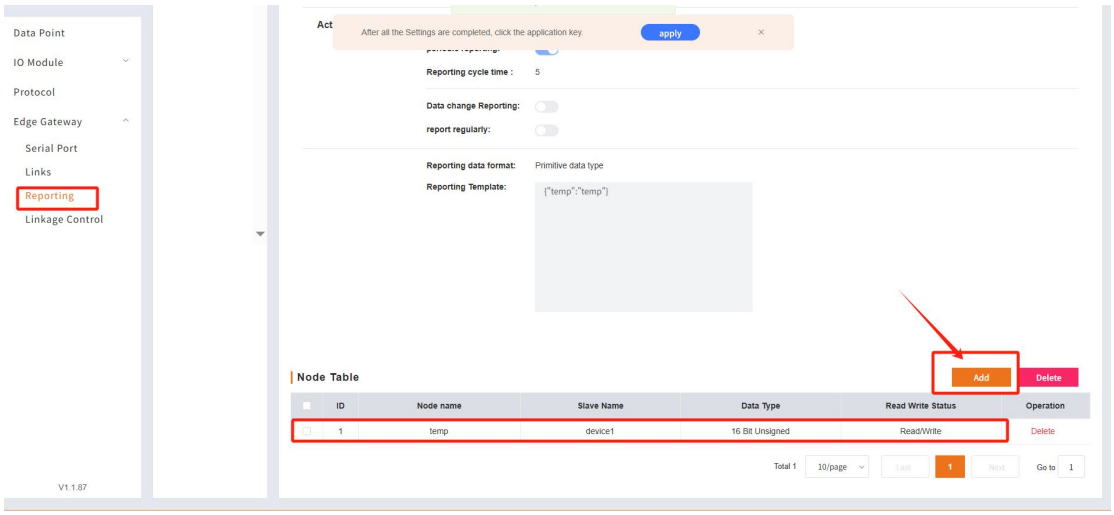
Set up data reporting and add an MQTT link.



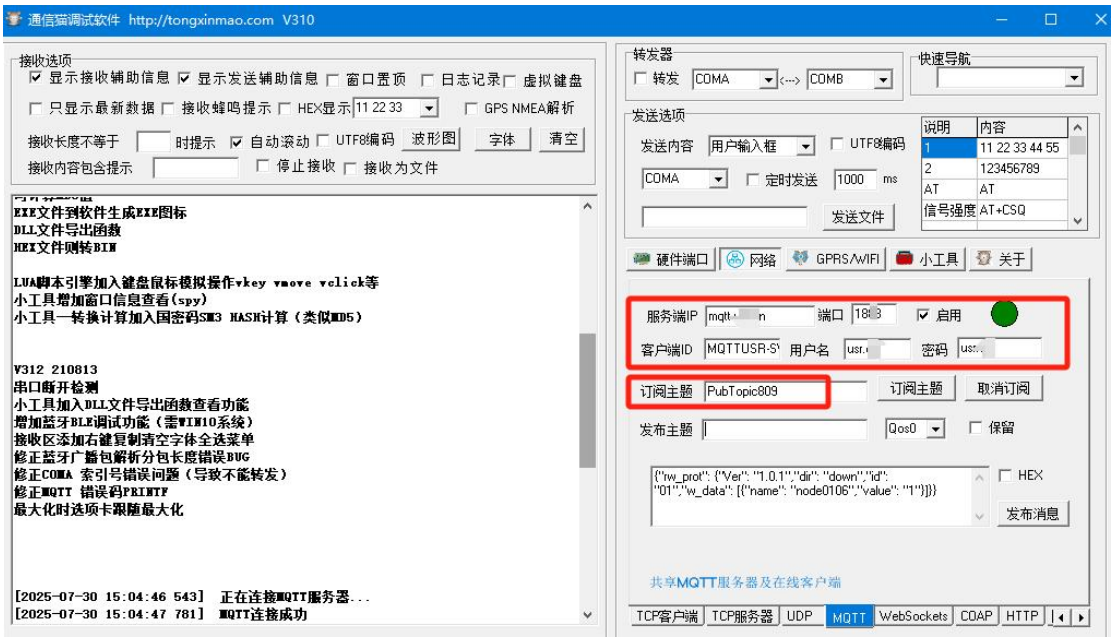


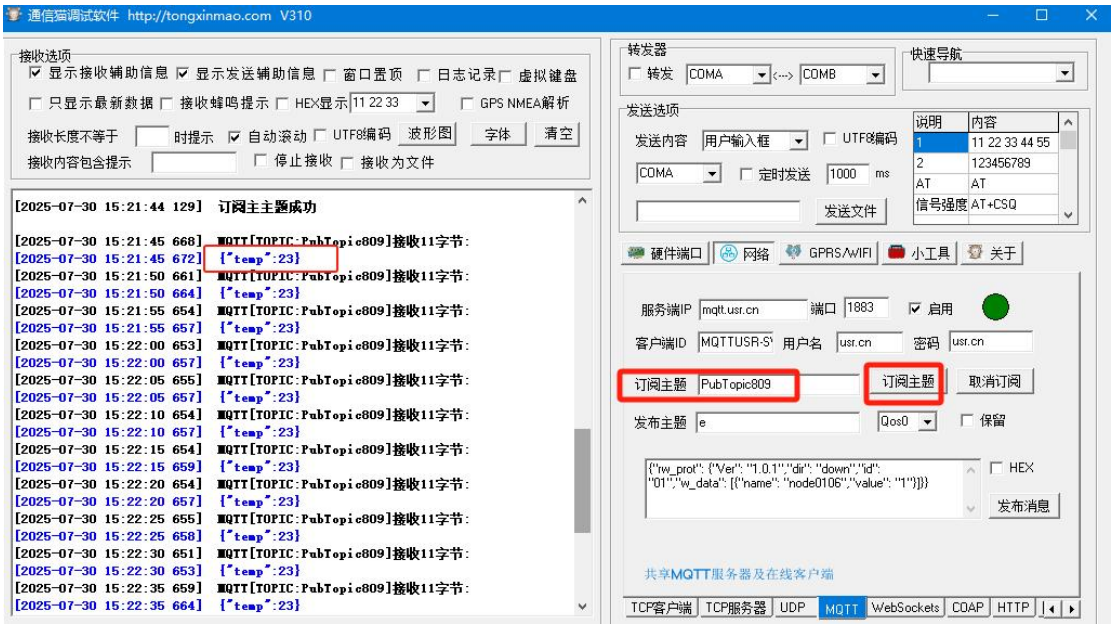
After the group is successfully added, click "Add" to select the points

(do not forget to select them, otherwise the server will not receive the data!!!)



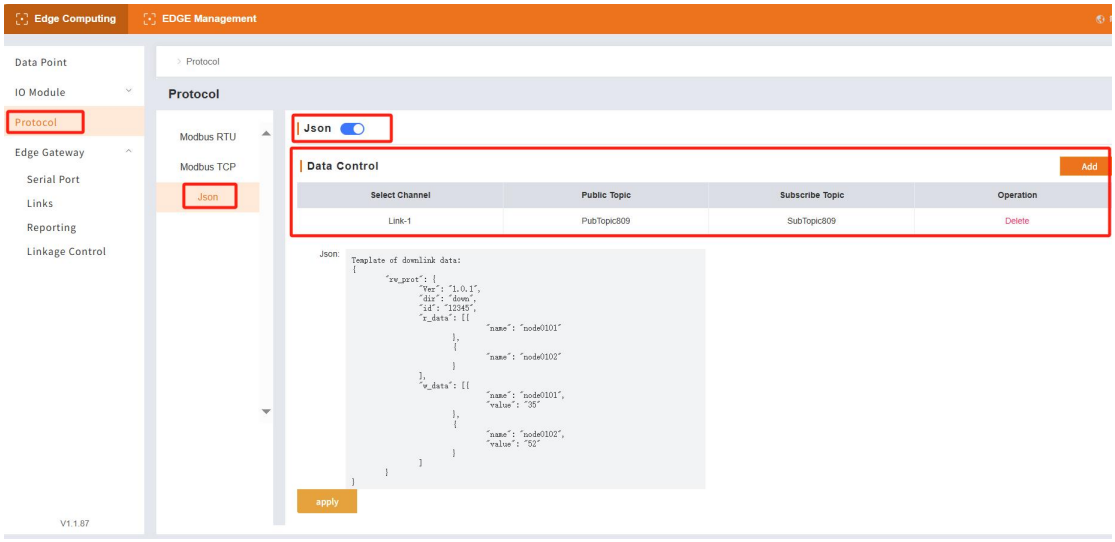
Verify serial port data from the MQTT server





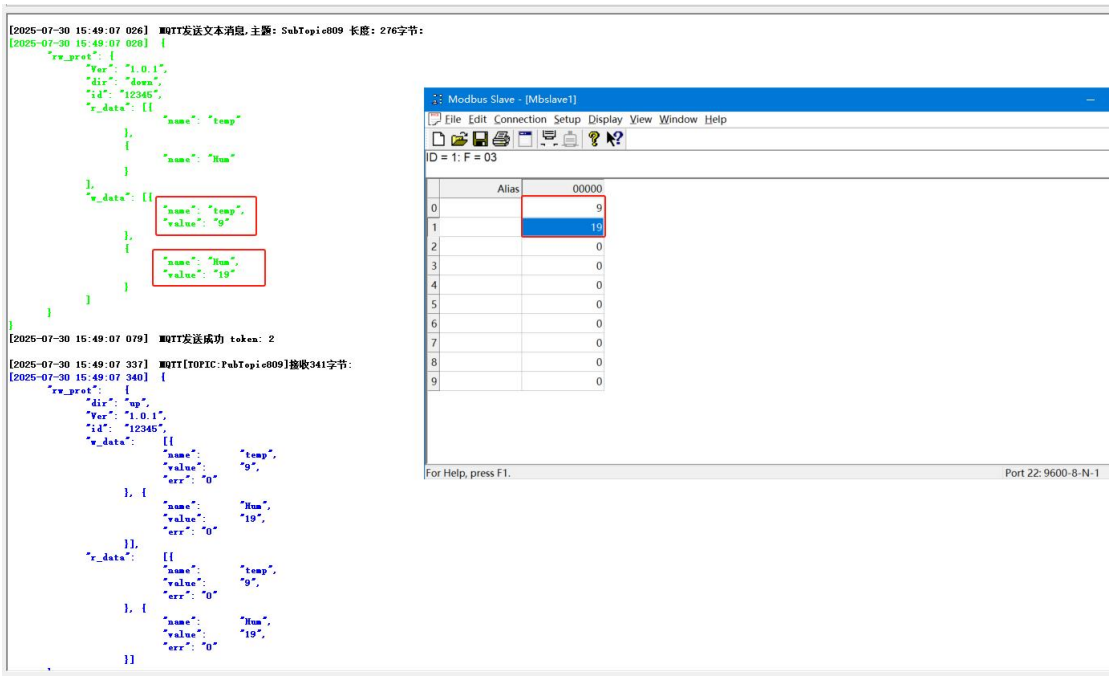
2.Verify writing serial data from MQTT server JSON delivery

Set up JSON protocol conversion, check the MQTT link, and set the publish and subscribe topics.



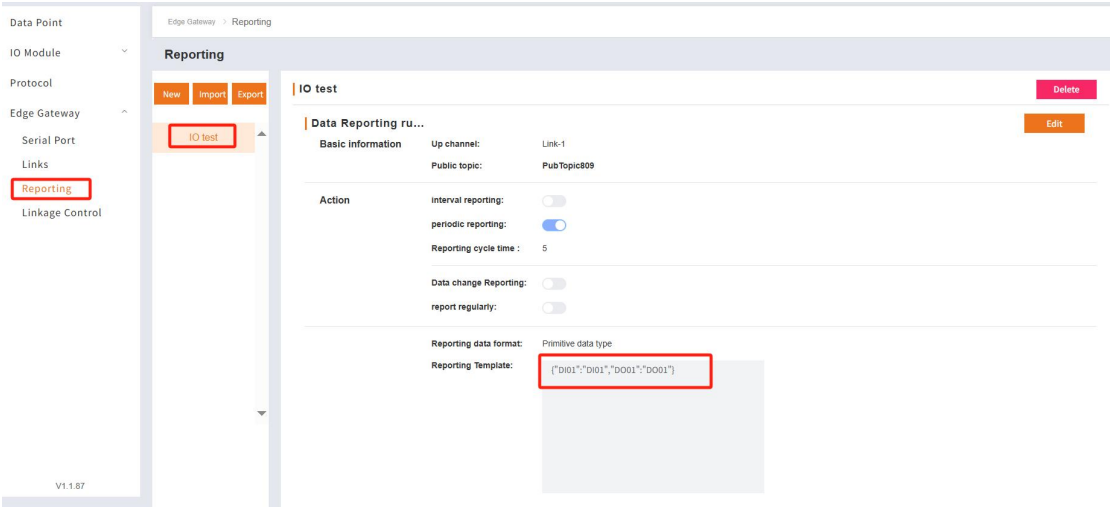
Publish the SubTopic809 topic via MQTT and send data in the following format.

```
{
    "rw_prot": {
        "Ver": "1.0.1",
        "dir": "down",
        "id": "12345",
        "r_data": [{
                "name": "temp"
            },
            {
                "name": "Hum"
            }
        ],
        "w_data": [{
                "name": "temp",
                "value": "9"
            },
            {
                "name": "Hum",
                "value": "19"
            }
        ]
    }
}
```

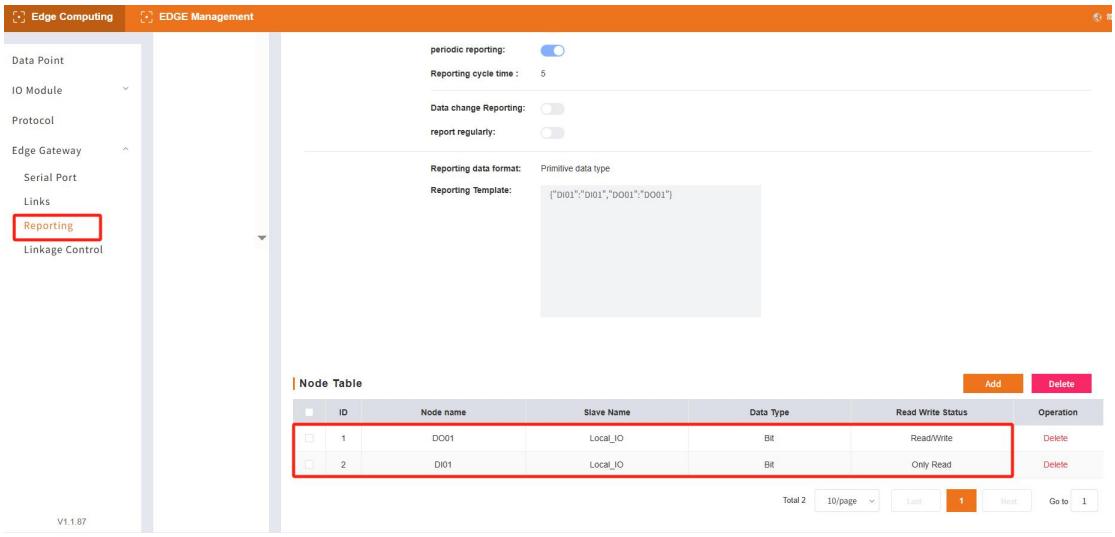


2. Verify DIDO status reporting

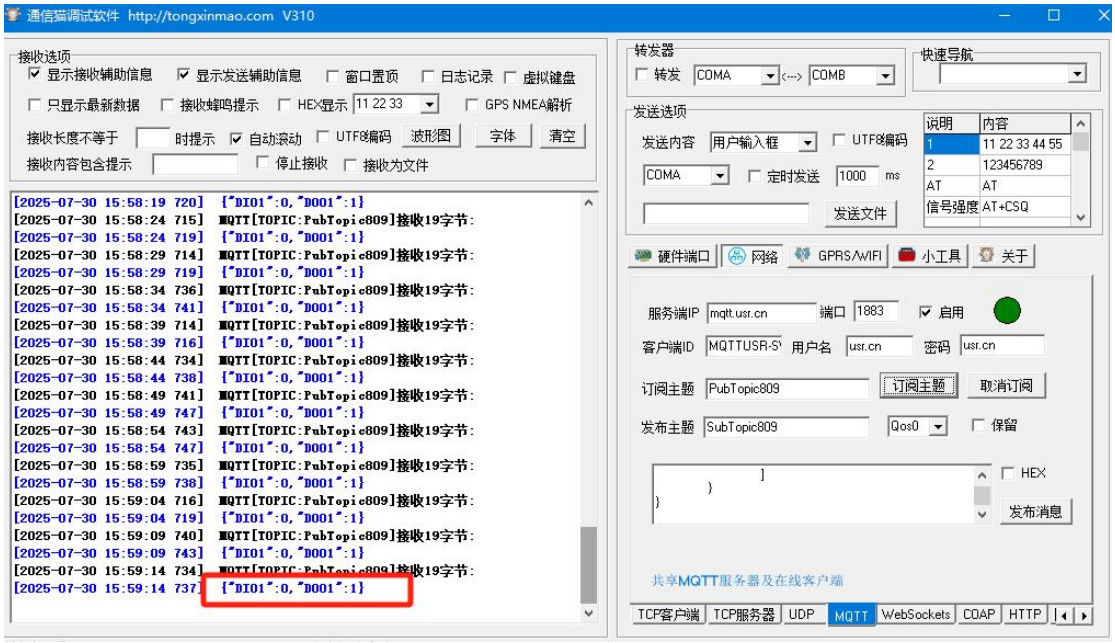
Add DI01 and DO01 data points to the reporting template for reporting.



Add the DI01 and DO01 point tables.



Subscribe to the PubTopic809 topic via MQTT to obtain the IO status.



4.Verify the status of remotely controlled DO (Digital Output)

Publish the SubTopic809 topic via MQTT and send data in the following format.

```
"rw_prot": {
        "Ver": "1.0.1",
        "dir": "down",
        "id": "12345",
        "r_data": [{
                "name": "temp"
            },
            {
                "name": "Hum"
```

```
                }
            ],
            "w_data": [{
                "name": "temp",
                "value": "9"
            },
            {
                "name": "DO01",
                "value": "0"
            }
            ]
        }
}
```