

MQTT Real-time Support for MESHdesk and APdesk

Install Mosquitto

- Install the Mosquitto MQTT Broker as per these fine instructions:
 - <https://www.vultr.com/docs/install-mosquitto-mqtt-broker-on-ubuntu-20-04-server/>
- Make sure you do **Step 3** to secure the it with usernames and passwords.
- In this document we use username and password of **openwrt**. Please change according to your preference.



- Please use a strong password for the MQTT user in a production environment.

Install Rdcare-API-Gateway

- Go to /opt directory

```
cd /opt
```

- Clone Rdcare API Gateway from Github

```
sudo git clone https://github.com/RADIUSdesk/Rdcare-API-Gateway.git
```

- Go to newly cloned directory

```
cd /opt/Rdcare-API-Gateway
```

- Install NPM Dependencies

```
sudo npm install
```

- Rename **.env.sample** to **.env** and edit

```
sudo mv .env.sample .env  
sudo vi .env
```

```
PORT=8001  
#FQDN of your installed server  
MESH_CONTROLLER="http://cloud.mesh-manager.com"  
MQTT_BROKER="127.0.0.1"  
MQTT_PORT=1883  
MQTT_USER=openwrt  
MQTT_PASS=openwrt
```

- The Rdcare API Gateway Systemd Startup File

```
sudo cp /opt/Rdcare-API-Gateway/rdcare-api-gateway.service  
/lib/systemd/system/
```

- Enable the Rdcore API Gateway

```
sudo systemctl enable rdcore-api-gateway.service
```

- Start the Rdcore API Gateway

```
sudo systemctl start rdcore-api-gateway.service  
sudo systemctl status rdcore-api-gateway.service
```

- Confirm the service is running by visiting the FQDN:8001
- e.g <http://cloud.radiusdesk.com:8001/>

MQTT Settings in RADIUSdesk

- To enable MQTT on RADIUSdesk there are two places where it has to be configured.
- For the devices managed by MESHdesk and APdesk there is this GUI under **Settings** → **MQTT**



The screenshot shows the RADIUSdesk web interface. At the top, there are navigation tabs: Wireguard Servers, OpenVPN Servers, Clouds, Rights Manager, and Settings. Below these are sub-tabs: Defaults, MQTT (selected), Email, SMS Provider 1, and SMS Provider 2. The main content area is titled 'MQTT' and contains the following configuration options:

- Enable:** A checkbox that is checked.
- User:** A text input field containing 'openwrt'.
- Password:** A password input field with a masked password '.....' and a toggle icon to show/hide the password.
- Server URL:** A text input field containing 'cloud.radiusdesk.com'.
- Command Topic:** A text input field containing '/RD|NODE|COMMAND|RESPONSE'.

- Command topic is always **/RD/NODE/COMMAND/RESPONSE**
- Then for the server to use MQTT instead of the heartbeat system you have to edit the following config file.
- Edit **/var/www/html/cake4/rd_cake/config/MESHdesk.php**
- Look for this sections and adapt to your server's values.

```
$config['mqtt_settings']['enable_realtime'] = true;  
$config['mqtt_settings']['api_gateway_url'] =
```

```
'http://164.160.89.129:8001' ;
```

From:

<http://radiusdesk.com/wiki/> - **RADIUSdesk**

Permanent link:

http://radiusdesk.com/wiki/getting_started/20_install_ubuntu_mqtt

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