

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

- The Rdcare-API-Gateway is a Node.js application. We will start off by installing Node.js and npm.

```
sudo apt install nodejs
sudo apt install npm
```

- 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 Rdcore API Gateway Systemd Startup File

```
sudo cp /opt/Rdcore-API-Gateway/rdcore-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**



RADIUSdesk | MESHdesk | APdesk

The screenshot shows the RADIUSdesk web interface. The top navigation bar includes 'Wireguard Servers', 'OpenVPN Servers', 'Clouds', 'Rights Manager', and 'Settings'. The 'Settings' tab is active, and the 'MQTT' sub-tab is selected. The MQTT settings are displayed in a light blue box. The settings include: 'Enable' (checked), 'User' (openwrt), 'Password' (masked with dots), 'Server URL' (cloud.radiusdesk.com), and 'Command Topic' (/RD/NODE/COMMAND/RESPONSE).

MQTT	
Enable	☒
User	openwrt
Password	
Server URL	cloud.radiusdesk.com
Command Topic	/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/22_install_ubuntu_mqtt

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