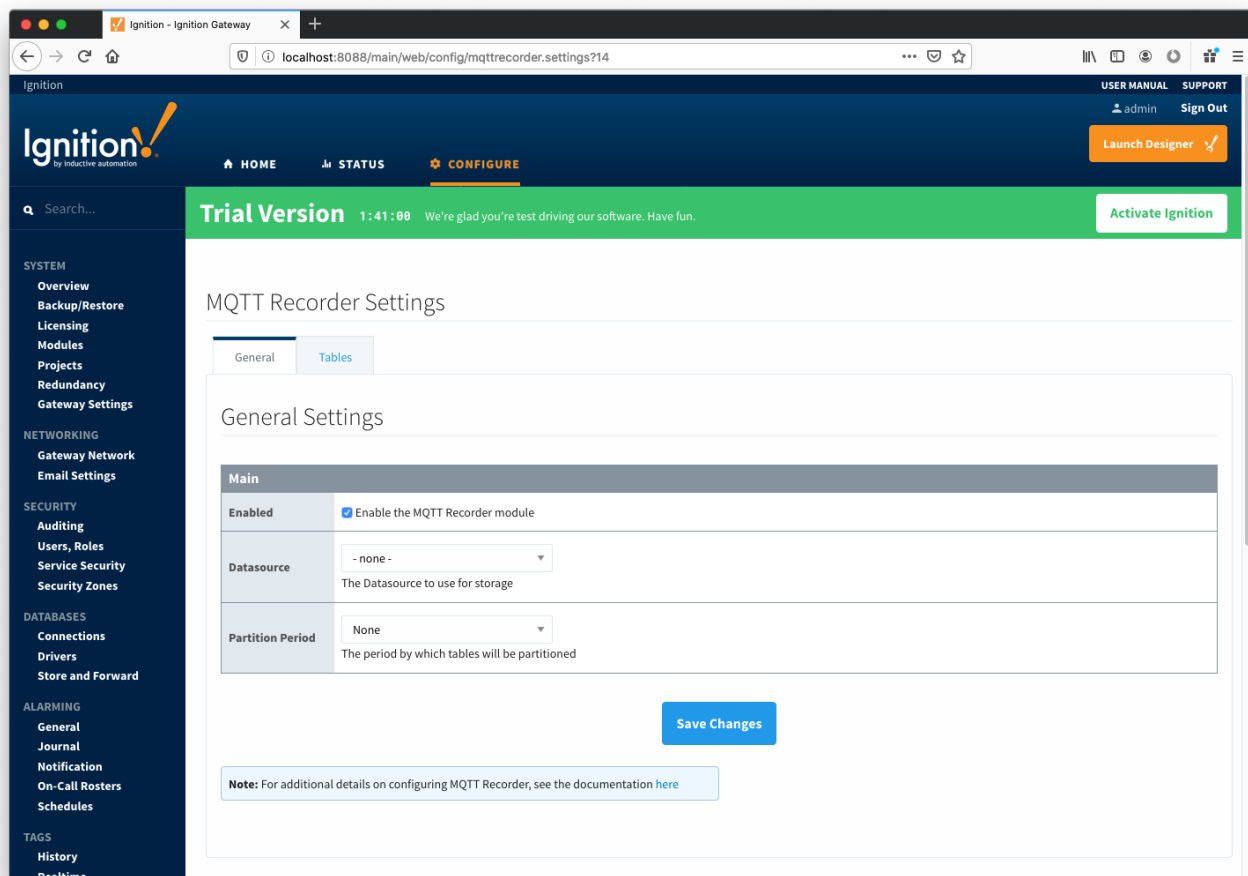# MR: Configuration

MQTT Recorder provides a configuration section to the Ignition Gateway. These can be seen in the Configure section of the Ignition Gateway web UI on the left-hand navigation pane - Configure MQTT Recorder Settings.

General

These are the general MQTT Recorder configuration settings.

Main

- **Enabled**
  - This denotes whether or not to enable or disable the MQTT Recorder module.
- **Datasource**
  - A dropdown list to select the database connection to use for record storage. This list is populated with the database connections set up within the Ignition Gateway.
- **Partition Period**
  - The partitioning scheme to use for record tables within database. Each table name will be appended with a date indicating the partition time period. For example, if table were created for "alarm" records on September 25, 2018 at 2:00 AM, they table name for each partition type would be:
    - None: *rs_alarm*
    - Hourly: *rs_alarm_2018_09_25_02*
    - Daily: *rs_alarm_2018_09_25*
    - Weekly: *rs_alarm_2018_39*
    - Monthly: *rs_alarm_2018_09*
    - Yearly: *rs_alarm_2018*

Tables

These are the settings for the database tables that MQTT Recorder will insert the records into.
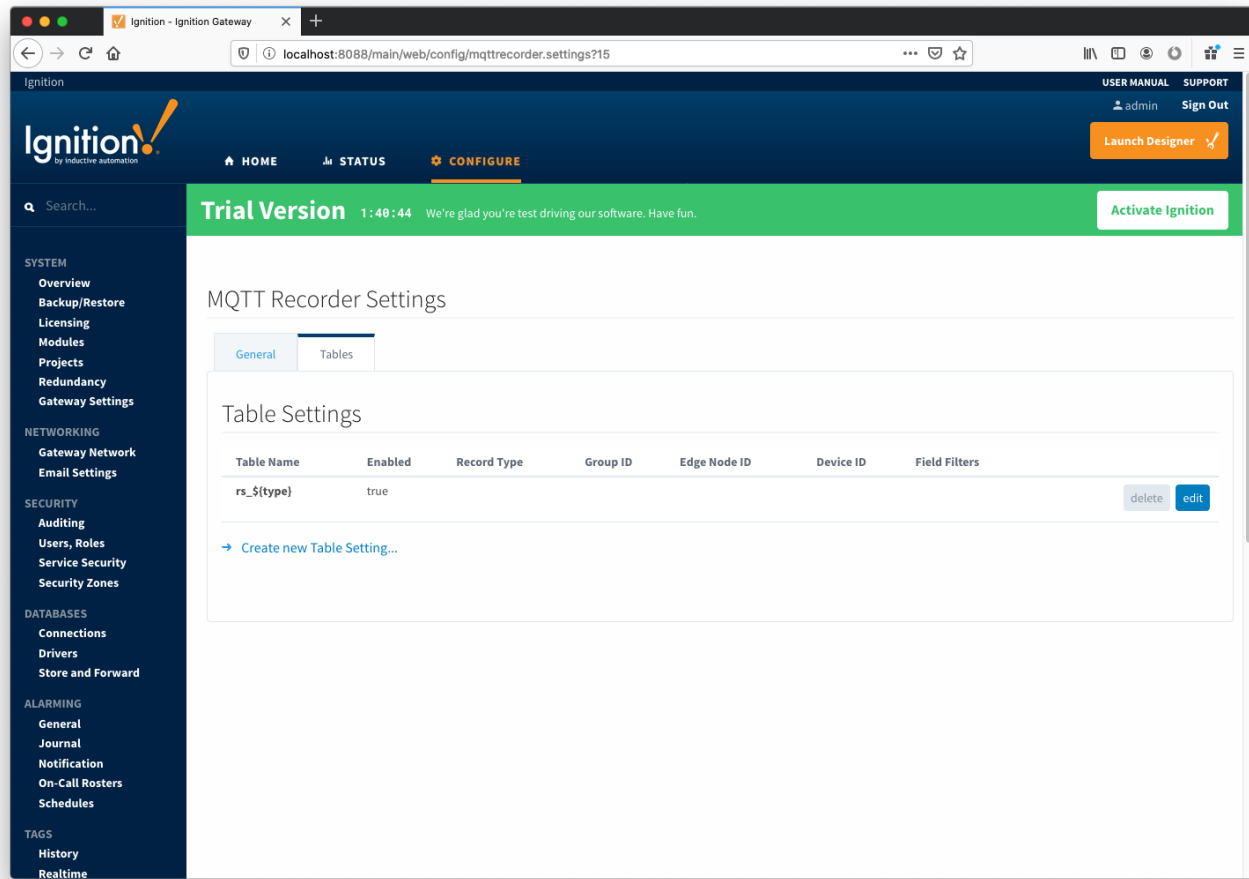
Table Settings

A Table Setting consists of a Table Name and various optional filters.

- **Table Name**
    - The name of the table where records will be inserted. This name can be statically defined or be dynamically build up using the following tokens
        - ${type} - The Record Type of the record being inserted
        - ${group} - The Sparkplug Group ID of the record being inserted
        - ${edgenode} - The Sparkplug Edge Node ID of the record being inserted
        - ${device} - The Sparkplug Device ID of the record being inserted
        - ${field:<name>} - The value of any field of the record being inserted where <name> is the name of the field
- **Enabled**
    - Whether this Table Setting is enabled
- **Record Type**
    - An optional Record Type to filter on. If specified, only records with this Record Type will be placed in the table.
- **Group ID**
    - An optional Sparkplug Group ID to filter on. If specified, only records with this Group ID will be placed in the table.
- **Edge Node ID**
    - An optional Sparkplug Edge Node ID to filter on. If specified, only records with this Edge Node ID will be placed in the table.
- **Device ID**
    - An optional Sparkplug Device ID to filter on. If specified, only records with this Device ID will be placed in the table.
- **Field Filters**
    - An optional semicolon delimited list of field filters. Each field filter is declared using one of the following forms: {<field>:<operator>:<value>}, {<field>:NULL}, or {<field>:NOTNULL}
        - <field> - the name of the field to filter on.
        - <operator> - the filter operator. Must be one of the following: ==, !=, >, <, >=, or <=
        - <value> - the value of the field.
    - Values that contain ':', ';', or '\' characters must have the character escaped with a leading '\' character.
    - Examples:
        - To only insert records that match a "serial_number" field equal to "0123456" the filter would be: {serial_number:==:0123456}
        - To only insert records that contain a "temp1" field the filter would be: {temp1:NOTNULL}
        - To exclude records that match a "unit_id" field equal to "112:008:32455" the filter would be: {unit_id:!=:112\:008\:32455}

localhost:8088/main/web/config/mqttrecorder.settings?16

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MQTT Recorder Settings

General   Tables

Edit Table Setting

Main	
Table Name	`rs_${type}` A table name that supports token substitution for the following: ${type}, ${group}, ${edgenode}, ${device}, and ${field:<name>} where <name> is the name of any potential field of a Record.
Enabled	☑ Whether this table setting is enabled (default: true)
Record Type	The type of record to match to the table name
Group ID	A Group ID used for matching (optional)
Edge Node ID	An Edge Node ID used for matching (optional)
Device ID	A Device ID used for matching (optional)
Field Filters	A semicolon delimited list of field filters of the form: {<field>:<operator>:<value>}, {<field>:NULL}, or {<field>:NOTNULL} where operators are one of: ==, !=, >, <, >=, <=. Example: {Field1:==:test};{Field2:<:4};{Field3:NULL}. Values that contain ':', ';', or '\' characters must have the character escaped with a '\' character.

Save Changes