Enable Device Writes from Ignition

Prerequisites:

- Installing the Java Runtime Environment
- Installing Ignition
- Installing the following MQTT Modules
  - MQTT Engine
    - v2.1.X if using Ignition 7.7.x or 7.8.x
   - v3.1.0 or greater if using Ignition 7.9.X

Overview:

MQTT Engine by default blocks the ability to write to MQTT device tags. This is to prevent accidental writes when running on production systems. When developing it must be explicitly enabled in the gateway configuration. This tutorial outlines that process.

Enable Device Writes from Ignition:

Start by browsing to your Ignition Gateway's web UI and select 'Configure'. The default URL is: http://127.0.0.1:8088
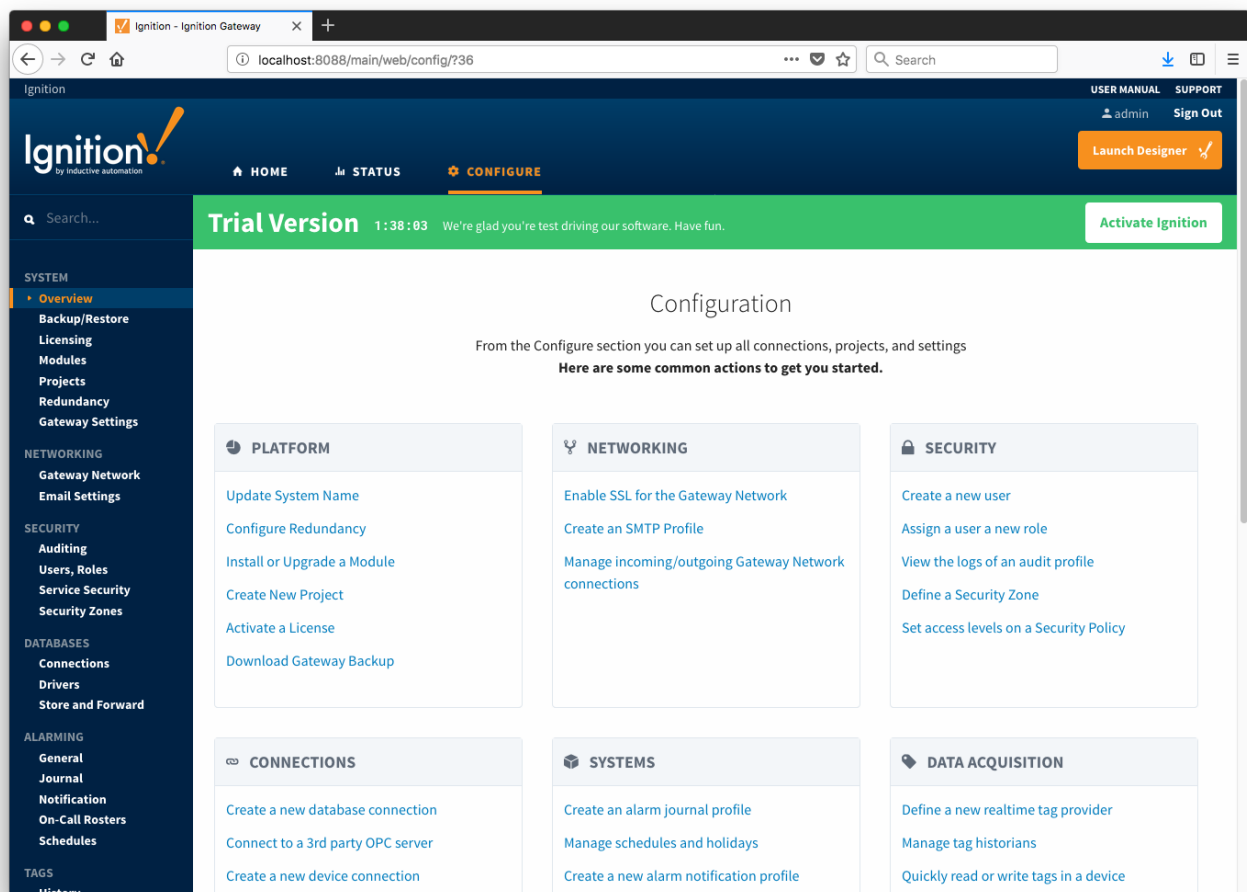
The default username / password when clicking 'Configure' is **admin / password**. Once in the Configuration menu select 'MQTT ENGINE -> Settings' on the left navigation bar.
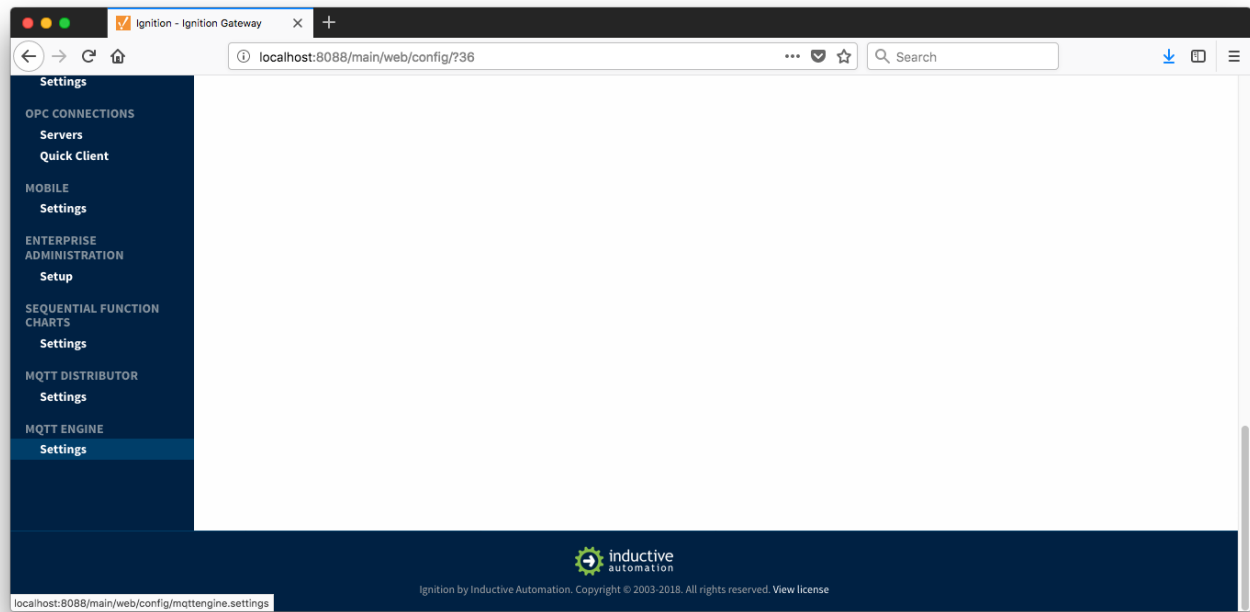
Once there, you'll see the following under the 'General' tab. There are two options: "Block Node Commands" and "Block Device Commands". Make sure they are both disabled (not checked) and click 'Save Changes'

General Settings

NETWORKING
Gateway Network
Email Settings

SECURITY
Auditing
Users, Roles
Service Security
Security Zones

DATABASES
Connections
Drivers
Store and Forward

ALARMING
General
Journal
Notification
On-Call Rosters
Schedules

TAGS
History
Realtime

OPC-UA SERVER
Certificates
Devices
Settings

OPC CONNECTIONS
Servers
Quick Client

MOBILE
Settings

ENTERPRISE ADMINISTRATION
Setup

SEQUENTIAL FUNCTION CHARTS
Settings

MQTT DISTRIBUTOR
Settings

MQTT ENGINE
Settings

Main	
Enabled	☑ Enable the MQTT Engine (default: true)
Primary Host ID	The Primary Host ID to allow connecting clients to ensure they remain connected to this application (optional)
Group ID Filters	A comma separated list of Group IDs to listen for (optional)

Chariot Access	
Chariot Cloud Access Key	The optional Chariot Cloud Access Key used for Cirrus Link hosted Chariot MQTT Servers (optional)
Chariot Cloud Secret Key	The optional Chariot Cloud Secret Key used for Cirrus Link hosted Chariot MQTT Servers (optional)

Miscellaneous	
Block Node Commands	☐ Block outbound edge node tag writes
Block Device Commands	☐ Block outbound device tag writes
Block Property Changes	☐ Block incoming Tag property changes
File Policy	Ignore ▼ The policy for handling incoming files
File Location	The directory to store files in when using the "Store" file policy (optional)
Store Historical Events	☑ Enabled the writing of historical change events directly to the History provider instead of updating the Tag value (default: true)

Save Changes