

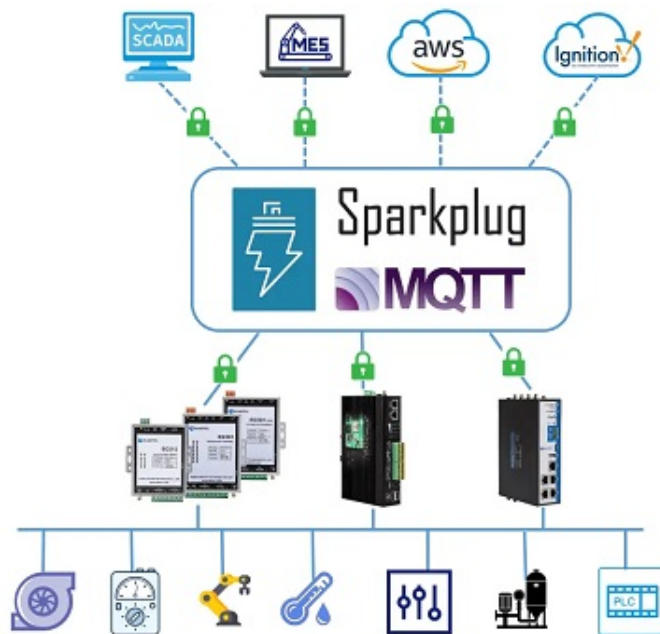


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IDEC MQTT Sparkplug B with Lgnition



Product Information

Specifications

- **Product Name:** Ignition
- **Manufacturer:** IDEC Corporation
- **Supported Platforms:** Windows, Linux, macOS
- **Modules:** MQTT Distributor, MQTT Engine, MQTT Transmission, MQTT Recorder
- **Port:** 8088

Product Usage Instructions

Download and Install Ignition

- Download the Ignition executable from the provided link.
- Choose the file according to your platform (Windows, Linux, macOS).
- Follow the installation instructions provided on the website.

Setup MQTT/Sparkplug B with Ignition

- For MQTT/Sparkplug B setup, additional modules need to be installed.
- Visit the provided link to download the required MQTT modules.

Logging in Ignition

- After installation, access the Ignition interface by entering <http://localhost:8088/> in a web browser.
- Follow the on-screen instructions and complete the setup process.

Using MQTT/SparkPlugB with Ignition

- To enable MQTT/SparkPlug functionality, install the necessary modules via Config -> SYSTEM -> Modules.
- Select and install the downloaded module to integrate MQTT support.

Changing OPC-UA Server Configuration

- After installing MQTT modules, configure the OPC-UA server by going to Config -> OPC UA -> Server Settings.
- Check the 'Show advanced properties' checkbox and enable 'Expose Tag Providers' to finalize the setup.

Ignition Installation & Setup

Download and Install Ignition

- Download the Ignition executable [here](https://inductiveautomation.com/downloads/ignition).
- Download the file for the platform you are using.
See [here](https://docs.inductiveautomation.com/display/DOC81/Installing+and+Upgrading+Ignition) for installation instructions.
- For non-Windows operating systems, there are instruction links for Linux and macOS, respectively.

Install Ignition

1. Download an installer from our Downloads page.
2. Run the installer and follow the steps in the installation wizard.
 - [Click here](#) if you're installing on Linux...
 - [Click here](#) if you're installing on macOS...

Setup Instructions for using

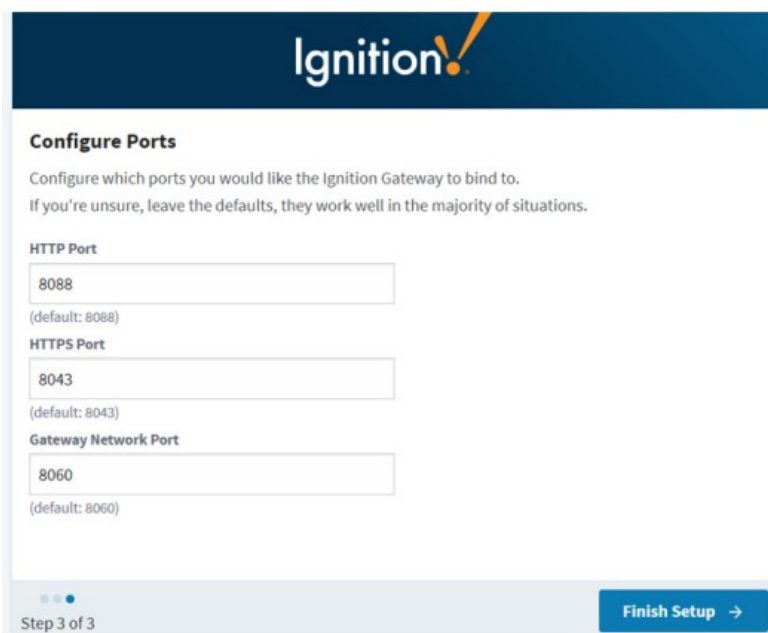
MQTT/Sparkplug B with Ignition

Logging in Ignition

- After installation, enter this URL in a browser to access port 8088 on the computer running Ignition.

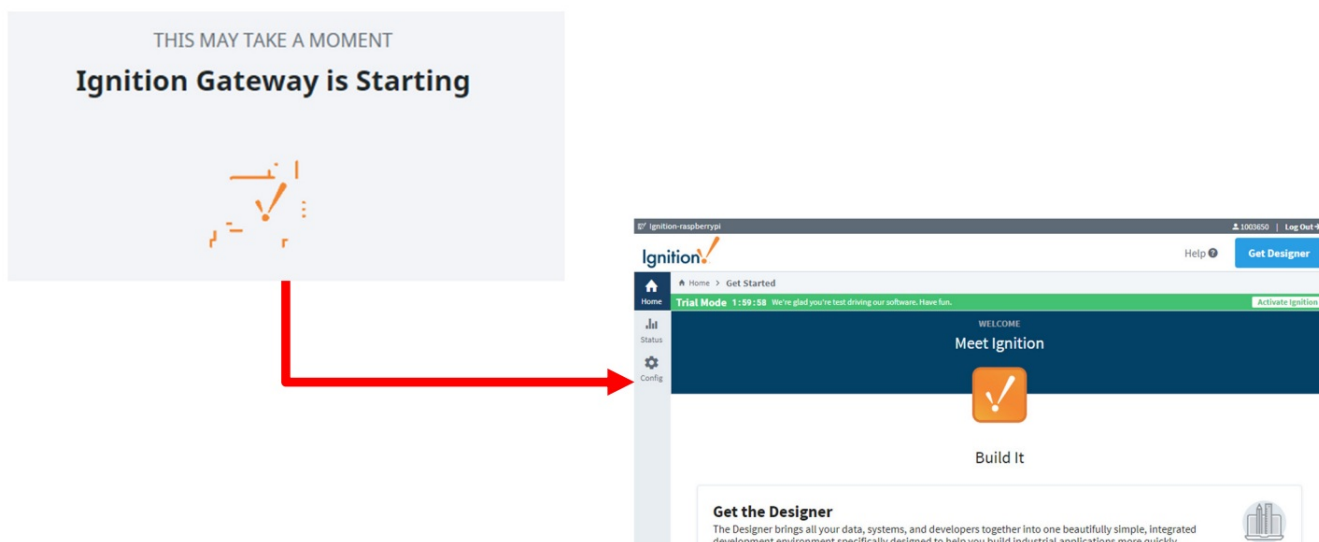
<http://localhost:8088/>

- Follow the steps and click “Finish Setup”.

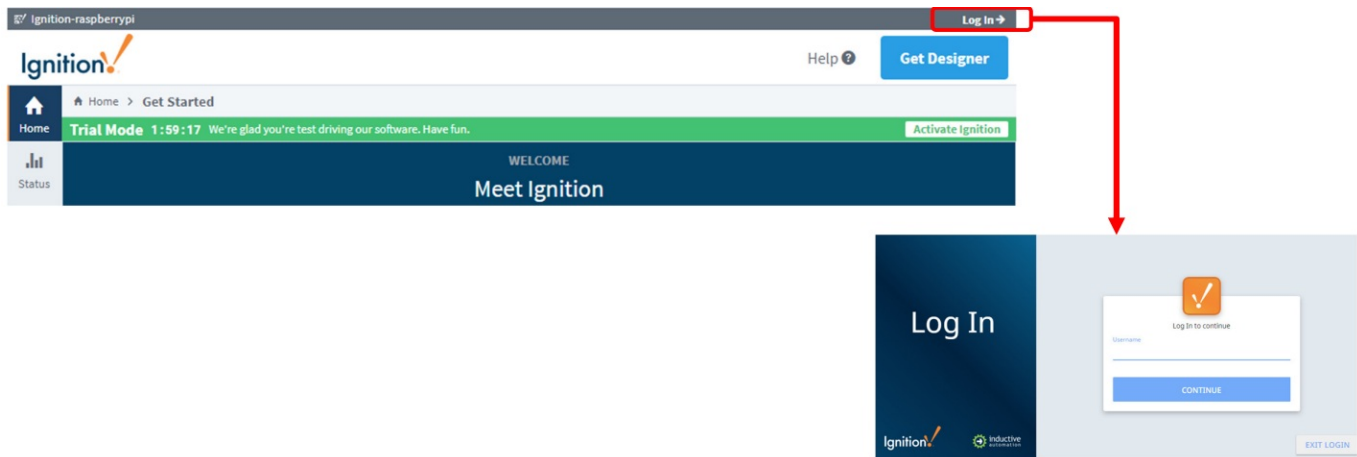


The screenshot shows the 'Configure Ports' screen in the Ignition software. At the top is the Ignition logo. Below it, the title 'Configure Ports' is followed by instructions: 'Configure which ports you would like the Ignition Gateway to bind to. If you're unsure, leave the defaults, they work well in the majority of situations.' There are three input fields: 'HTTP Port' with the value '8088' and '(default: 8088)' below it; 'HTTPS Port' with the value '8043' and '(default: 8043)' below it; and 'Gateway Network Port' with the value '8060' and '(default: 8060)' below it. At the bottom left, it says 'Step 3 of 3'. At the bottom right is a blue button labeled 'Finish Setup' with a right-pointing arrow.

- Next, this will bring up the initial Ignition screen as shown below.



- When the initial screen appears, click the “Log In” button in the upper right corner to log in.
- The username and password used to log in are the same as those during the Ignition installation.



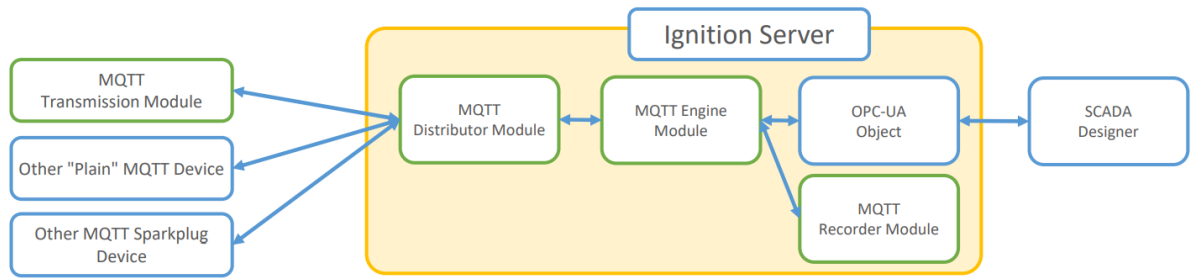
Using MQTT/Sparkplug B with Ignition

- Ignition does not support MQTT or SparkPlug in its initial state (immediately after installation).
- MQTT/SparkPlug can be supported by installing an additional MQTT module. – The MQTT module can be downloaded here.
 - <https://inductiveautomation.com/downloads/third-party-modules/>

Cirrus Link Solutions MQTT Modules for Ignition	Version	Checksum
See the release notes and usage documentation for all Cirrus Link modules here .		
MQTT Distributor Module (34.0 MB)	4.0.16	sha-256
MQTT Engine Module (36.0 MB)	4.0.16	sha-256
MQTT Transmission Module (32.1 MB)	4.0.16	sha-256
MQTT Recorder Module (32.4 MB)	4.0.16	sha-256

- There are four MQTT modules provided by Ignition.
 - The Distributor Module and Engine Module must be installed.
- (Required) MQTT Distributor Module
 - Add MQTT broker functionality to Ignition.
- (Required) MQTT Engine Module
 - Add the ability to connect the MQTT broker (Distributor Module) and Ignition
- (Optional) MQTT Transmission Module
 - Add MQTT node (Publisher/Subscriber) functionality.
 - If Ignition is used as SCADA, it will work without it (required if on the device side)
- (Optional) MQTT Recorder Module
 - Install if you want to create a history of data communicated by MQTT

Sparkplug.



- For the MQTT module, open Ignition's "Config" -> "SYSTEM" -> "Modules".
- Click "Install or Upgrade a Module...". Click "Install or Upgrade a Module...".

The screenshot shows the Ignition configuration interface. On the left, the 'Config' menu is open, and 'Modules' is selected under the 'SYSTEM' section. The main area displays a table of installed modules from 'Cirrus Link Solutions LLC'.

Name	Version	Description	License	State	More	restart
MQTT Distributor	4.0.16 (b2023041422)	An MQTT server	Trial	Running	More	restart
MQTT Engine	4.0.16 (b2023041422)	An MQTT connector to multiple MQTT servers	Trial	Running	More	restart
MQTT Recorder	4.0.16 (b2023041422)	Stores MQTT/Sparkplug Records in a database	Trial	Running	More	restart
MQTT Transmission	4.0.16 (b2023041422)	An Ignition Tag to MQTT Bridge	Trial	Running	More	restart

Below the table, there is a button labeled 'Install or Upgrade a Module...' and a note: 'Note: For details about a module's status, see the Module Status page.'

- Select the downloaded module and press the "Install" button to begin installation.

The screenshot shows a dialog box for installing a module. It contains the following text: 'To install a module, choose its *.mod1 file and press "Install". To upgrade a module, install the new version on top of the existing version. Modules can be downloaded from our website.' Below the text, there is a 'Choose File' button and a text field showing 'No file chosen'. To the right, there is a large blue 'Install' button.

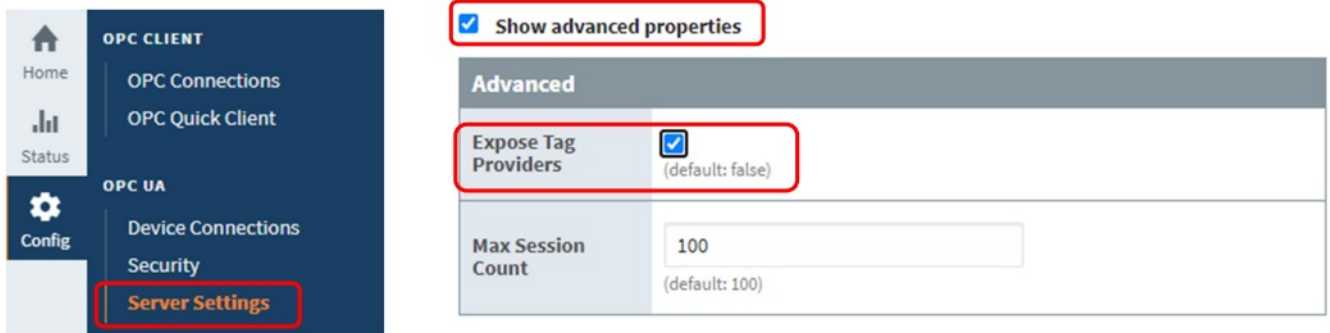
- When the installation is complete, the Module Configuration screen displays the installed modules.

The screenshot shows the Ignition configuration interface after installation. The 'Modules' page displays a table of installed modules from 'Cirrus Link Solutions LLC'.

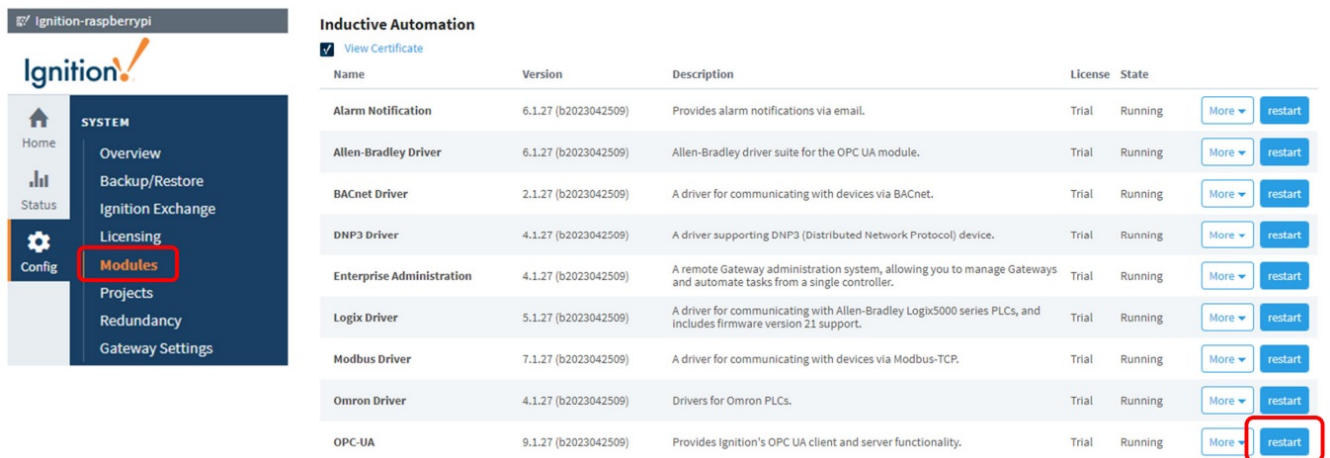
Name	Version	Description	License	State	More	restart
MQTT Distributor	4.0.16 (b2023041422)	An MQTT server	Trial	Running	More	restart
MQTT Engine	4.0.16 (b2023041422)	An MQTT connector to multiple MQTT servers	Trial	Running	More	restart
MQTT Recorder	4.0.16 (b2023041422)	Stores MQTT/Sparkplug Records in a database	Trial	Running	More	restart
MQTT Transmission	4.0.16 (b2023041422)	An Ignition Tag to MQTT Bridge	Trial	Running	More	restart

- After installing MQTT-related modules, the OPC-UA server configuration must be changed and reset. (because MQTT is treated as an object of OPC-UA)
- To reset the OPC-UA server, select "Config", "OPC UA", "Server Settings" and check the "Show advanced properties" checkbox.

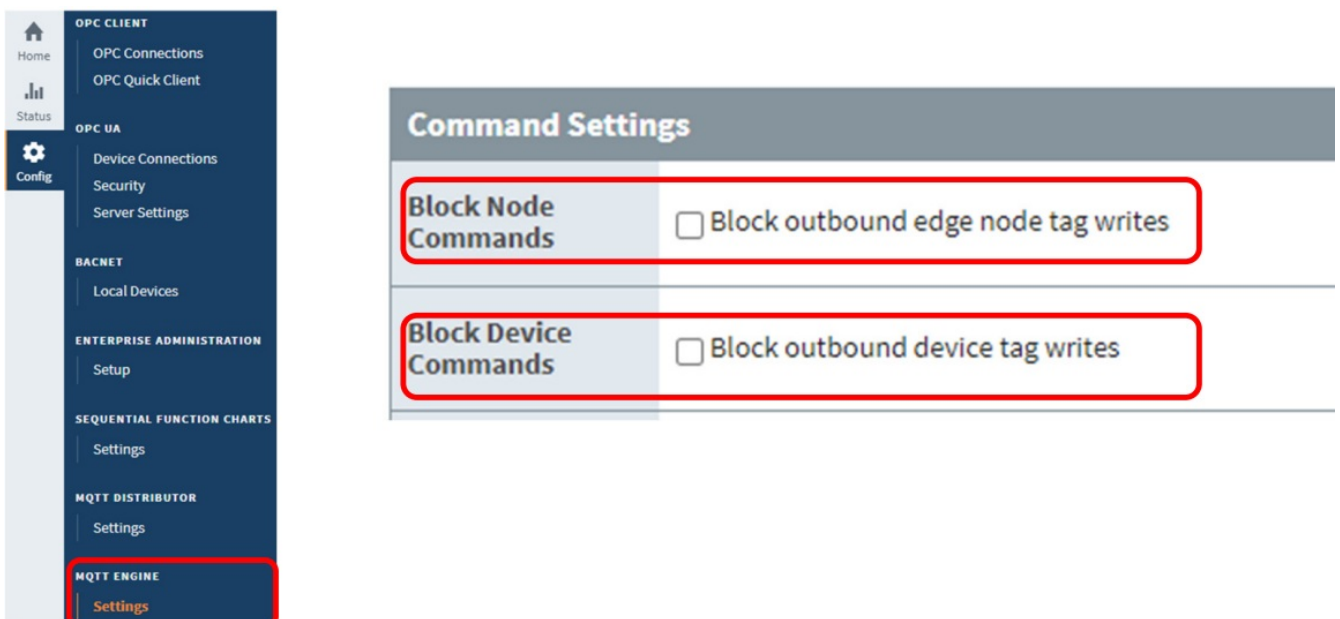
- Next, turn on the “Expose Tag Providers” checkbox



- Reset the OPC-UA server after changing the settings. To reset, open “Config” -> “SYSTEM” -> “Modules
- Press the “restart” button to the right of “OPC-UA”.



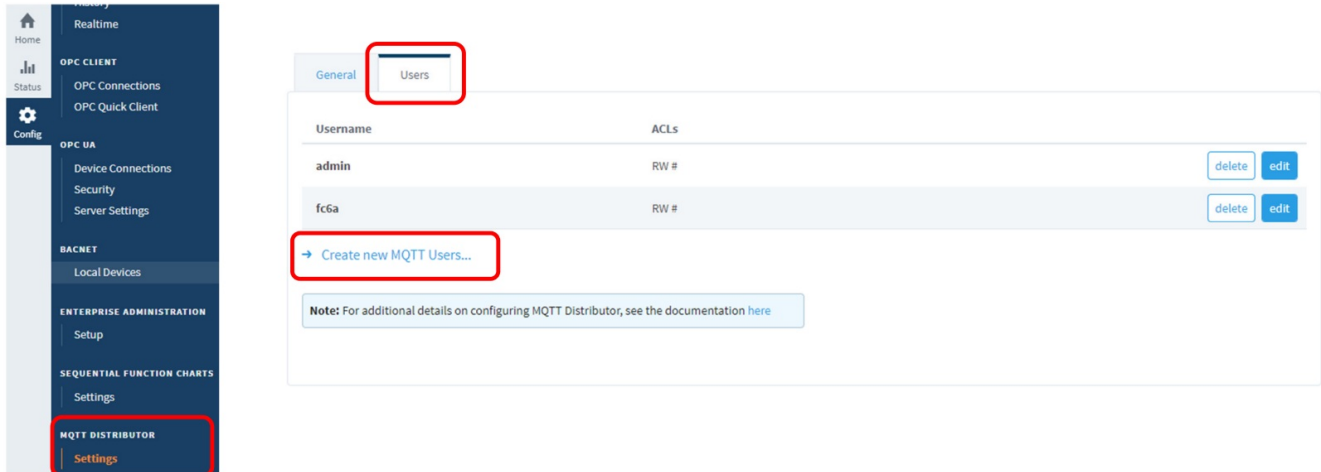
- Initially, data can be sent from the MQTT node (device side) to the Ignition, but not in the reverse direction (Ignition to MQTT node).
- This can be deactivated by setting To do this, open “Config”->”MQTT ENGINE”->”Settings” and uncheck “Block Node Commands” (for Nodes) and “Block Device Commands” (for Devices) in “Command Settings.



- The MQTT Distributor module plays the role of an MQTT broker, but when accessed

from an MQTT node (device), authentication is performed with a user name and password.

- This user name and password are set from “Config” -> “MQTT DISTRIBUTOR” -> “Settings” -> “Users”.
- To create a new user, click “Create new MQTT Users...” on this screen. Click “Create new MQTT Users...” on this screen to create a new user.



- When you create a new user, you set the username and password, but you also set the privileges (ACLs) for this user.
- To allow read/write access to all topics for the user account you are setting up, set “RW #”.

Main

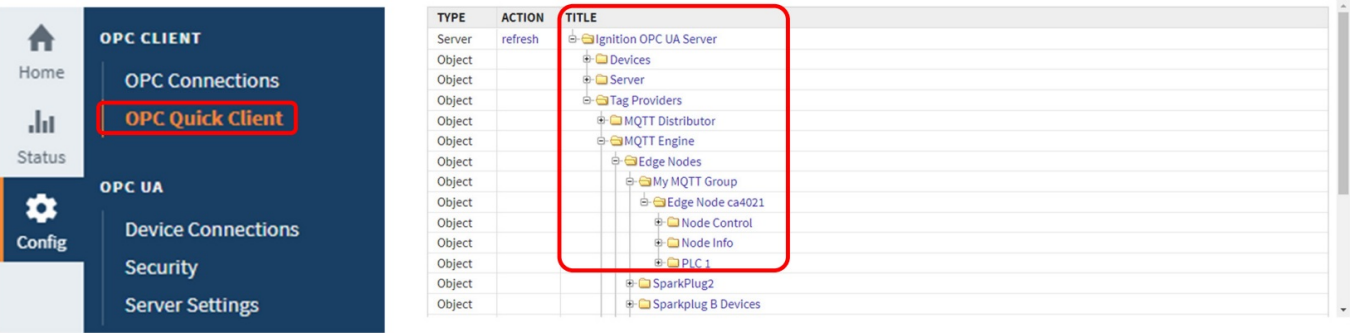
Username	username MQTT Username to use during connection establishment
Password	***** MQTT Password to use during connection establishment
Password	***** Re-type password for verification.
ACLs	RW # Comma separated list of permissions associated with this user of the form [RW topic],[RW topic]...

Create New MQTT Users

How to check the MQTT communication

- After the installation of MQTT-related modules and the configuration of OPC-UA are completed, you will be able to check MQTT-related parameters as objects of OPCUA.
- Open “Config” -> “OPC CLIENT” -> “OPC Quick Client”,
- Expand the tree in the order of “Ignition OPC UA Server” > “Tag Providers” > “MQTT Engine”.

- Nodes connected by Sparkplug are displayed under “MQTT Engine”



Frequently Asked Questions

Q: How can I access the Ignition interface after installation?

A: Simply enter `http://localhost:8088/` in a web browser to log in and access Ignition.

Q: What are the required MQTT modules for Ignition?

A: The required modules include MQTT Distributor and MQTT Engine, with optional modules like MQTT Transmission and MQTT Recorder.

Documents / Resources

	IDEC MQTT Sparkplug B with Lgnition [pdf] User Guide MQTT Sparkplug B with Lgnition, MQTT, Sparkplug B with Lgnition, with Lgnition, Lgnition
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References

- [User Manual](#)

📁 IDEC, Lgnition, MQTT, MQTT Sparkplug B with Lgnition, Sparkplug B with Lgnition, with Lgnition, Lgnition

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