

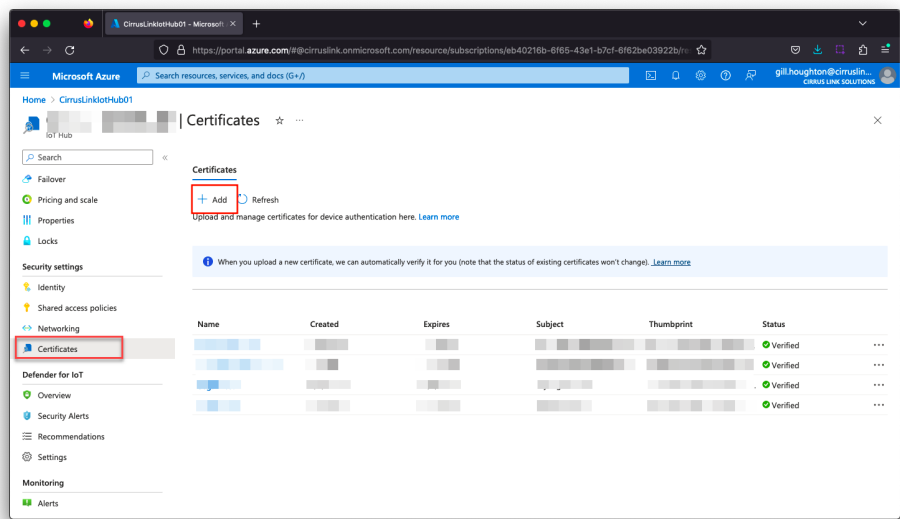
Connecting to Azure IoT Hub with Certificate Based Authentication

Generating Certificates

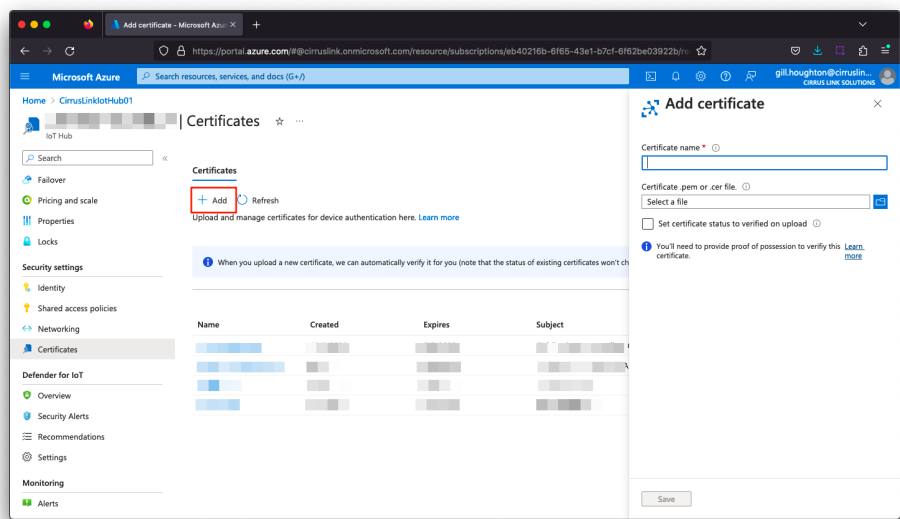
See step-by-step instructions for generating certificates to be used for certificate based authentication [here](#).

Add Root Certificate to IoT Hub

- On the IoT Hub resource Overview page, click "Certificates" menu on the left blade, and click the "Add" button.



- Give a certificate name (eg. MyOrg RootCertificate) and import the *ca.pem* file from your *iotcerts/ca* folder. Check the "Set certificate status to verified on upload" checkbox and click Save.

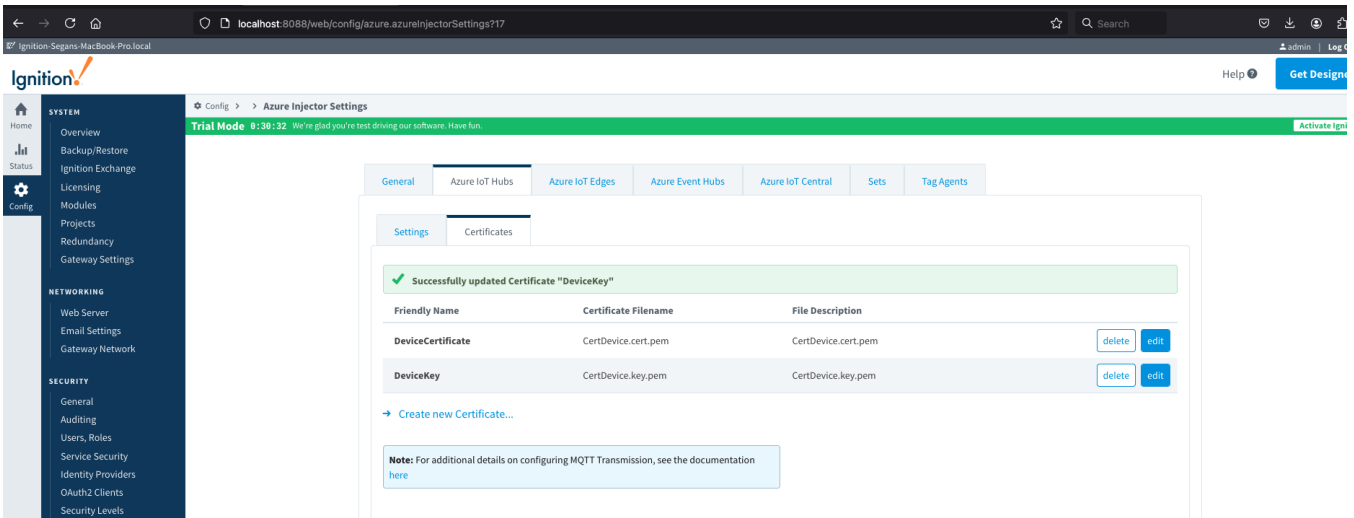


Add device certificates to Azure Injector IoT Hub configuration

Navigate to the [Azure Injector > Settings > Azure IoT Hubs > Certificates](#) and add the certificates as shown below:

Friendly Name	Certificate Filename	File Description	File Location
CACertificate			
DeviceCertificate	CertDevice.pem	Device Certificate	iotcerts/certs/device/CertDevice.pem

DeviceKey	CertDevice.key	Device Private Key	iotcerts/certs/device/CertDevice.key
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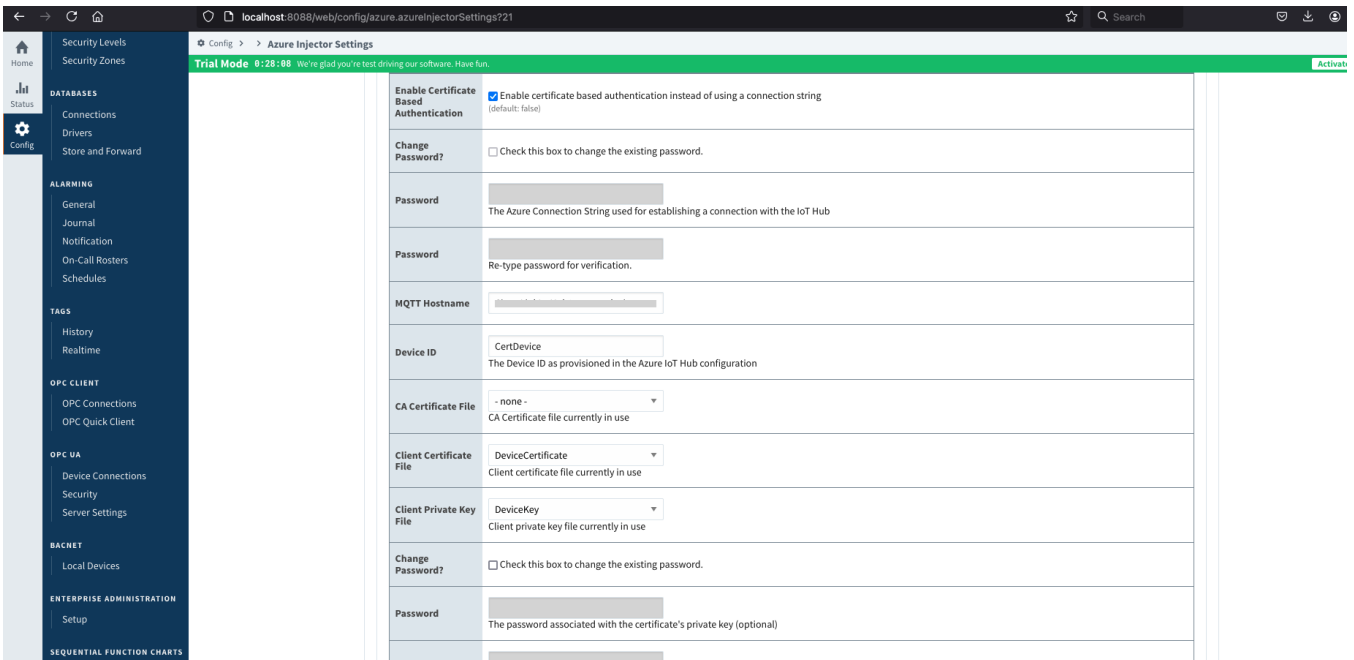


The screenshot shows the Ignition web interface at localhost:8088/web/config/azure.azureinjector/Settings?17. The left sidebar contains navigation menus for SYSTEM, NETWORKING, SECURITY, DATABASES, ALARMING, TAGS, OPC CLIENT, OPC UA, BACNET, ENTERPRISE ADMINISTRATION, and SEQUENTIAL FUNCTION CHARTS. The main content area is titled 'Azure Injector Settings' and shows a 'Trial Mode' banner. Below the banner are tabs for General, Azure IoT Hubs, Azure IoT Edges, Azure Event Hubs, Azure IoT Central, Sets, and Tag Agents. The 'Certificates' sub-tab is active, displaying a success message: 'Successfully updated Certificate "DeviceKey"'. A table lists the certificates:

Friendly Name	Certificate Filename	File Description	
DeviceCertificate	CertDevice.cert.pem	CertDevice.cert.pem	delete edit
DeviceKey	CertDevice.key.pem	CertDevice.key.pem	delete edit

Below the table is a link to 'Create new Certificate...' and a note: 'Note: For additional details on configuring MQTT Transmission, see the documentation [here](#)'.

Update the [Azure Injector > Settings > Azure IoT Hubs > Settings](#) configuration to use the certificates as shown below. Note : the certificates created do not use a Password



The screenshot shows the Ignition web interface at localhost:8088/web/config/azure.azureinjector/Settings?21. The left sidebar is the same as the previous screenshot. The main content area is titled 'Azure Injector Settings' and shows a 'Trial Mode' banner. Below the banner are tabs for General, Azure IoT Hubs, Azure IoT Edges, Azure Event Hubs, Azure IoT Central, Sets, and Tag Agents. The 'Settings' sub-tab is active, displaying a form for configuring the Azure IoT Hub connection:

Enable Certificate Based Authentication	☒ Enable certificate based authentication instead of using a connection string (default: false)
Change Password?	☐ Check this box to change the existing password.
Password	The Azure Connection String used for establishing a connection with the IoT Hub
Password	Re-type password for verification.
MQTT Hostname	
Device ID	CertDevice The Device ID as provisioned in the Azure IoT Hub configuration
CA Certificate File	- none - CA Certificate file currently in use
Client Certificate File	DeviceCertificate Client certificate file currently in use
Client Private Key File	DeviceKey Client private key file currently in use
Change Password?	☐ Check this box to change the existing password.
Password	The password associated with the certificate's private key (optional)

Verify the connection is established as shown by the Status on the [Azure Injector > Settings > Azure IoT Hubs](#) view

The screenshot shows the Ignition Gateway web interface. The browser address bar displays the URL: `Ignition-linstage.chariot.io:8088/web/config/azure.azureinjectorSettings?13`. The page title is "Ignition". The left sidebar contains a navigation menu with the following sections:

- SYSTEM**
 - Home
 - Status
 - Config (selected)
 - Overview
 - Backup/Restore
 - Ignition Exchange
 - Licensing
 - Modules
 - Projects
 - Redundancy
 - Gateway Settings
- NETWORKING**
 - Web Server
 - Email Settings
 - Gateway Network

The main content area is titled "Config > Azure Injector Settings". It features a tabbed interface with the following tabs: "General", "Azure IoT Hubs", "Azure IoT Edges", "Azure Event Hubs", "Azure IoT Central", "Sets", and "Tag Agents". The "Azure IoT Hubs" tab is selected. Within this tab, there are two sub-tabs: "Settings" and "Certificates". The "Settings" sub-tab is active, displaying a table of Azure IoT Hub settings.

Setting Name	Enabled	Protocol	Set	Store & Forward Enabled	History Max Age	Status	
Test Name	true	MQTT	Default	false	44640	Connected	delete edit

Below the table, there is a link: [→ Create new Azure IoT Hub Setting...](#)