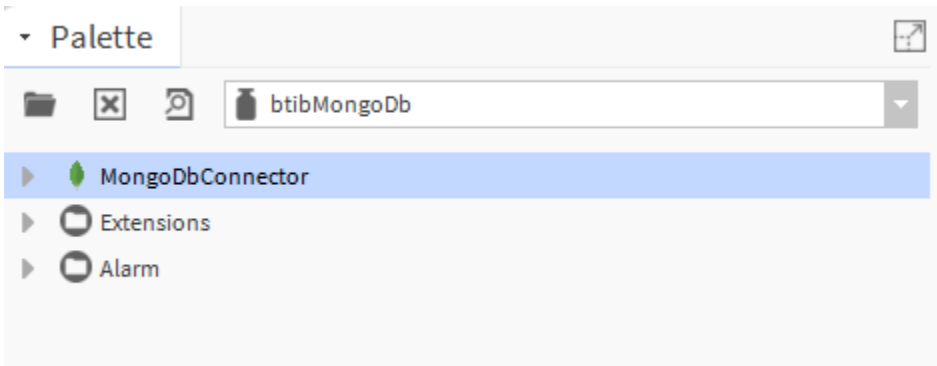


Step 2 Set up the MongoDB connector for devices, points and references

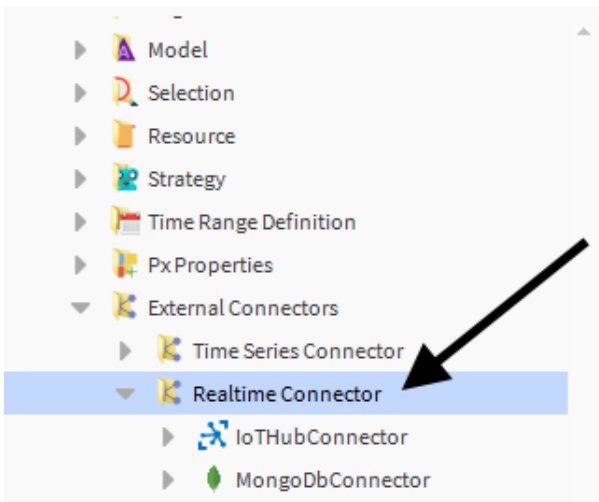
Now you have your MongoDB database configured successfully, in this section you will see how to connect Niagara devices/points to a MongoDB database.

Set up the connector

1. Open the MongoDB Connector palette.



2. Drag and drop the MongoDBConnector to **Services > Btib Service > External Connectors > Realtime Connectors** folder.

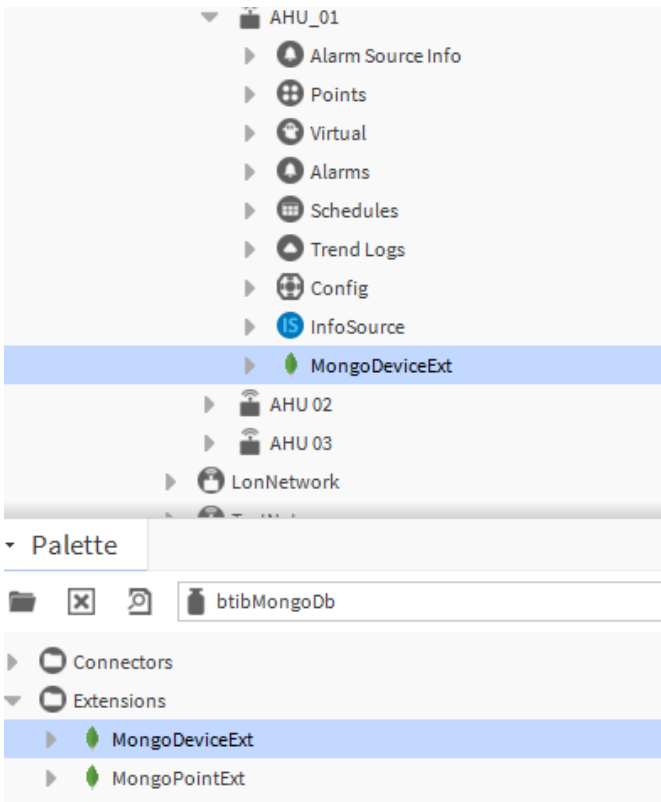


3. Double click on the connector fill-in the connection information then hit save.

Property Sheet	
MongoDbRTConnector (Mongo Db Connector)	
Log Ext	System Log Ext
Status	{ok}
Fault Cause	
Enabled	<input checked="" type="checkbox"/> true
Last Attempt	21-Oct-2020 11:11 AM CEST
Last Success	21-Oct-2020 11:11 AM CEST
Last Failure	null
Use Data Retention	<input type="checkbox"/> false
Data Retention Duration	+00072h 00m 00s
Data Send Retry Duration	+00000h 01m 00s
Messages Thread Pool Size	5
Advanced Config	Advanced Config
Number Of Worker Threads	1
Number Of Connections Per Host	5
Connection String
Connection Timeout	5000
Database Name	test
Devices Collection	devices
Points Collection	points
Alarms Collection	alarms
External Messages Collection	commands

Set up a Device

1. From the **btibMongoDb** palette, drag and drop the **MongoDeviceExt** to a device or anything that represents a group of points (it might be a Node, a folder etc.)



2. If you have only one connector the extension will pick it up automatically.

Property Sheet

MongoDeviceExt (Mongo Device Ext)

Status	{ok}
Fault Cause	
Enabled	<input checked="" type="radio"/> true
Connector	MongoDbConnector

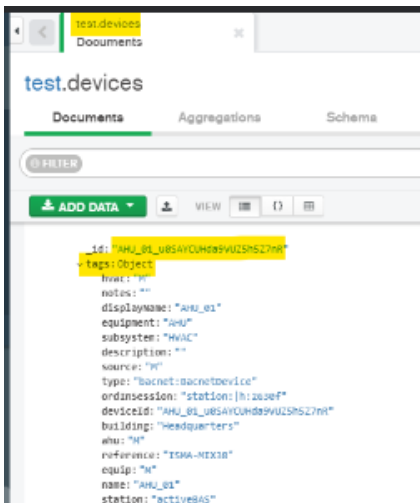
3. if you have multiple connectors, select the one in the list and hit save

Property Sheet

MongoDeviceExt (Mongo Device Ext)

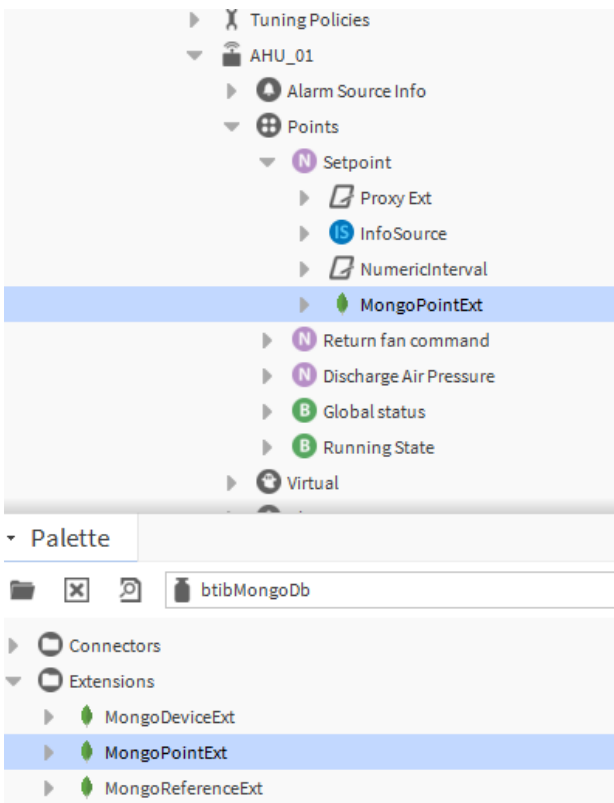
Status	{ok}
Fault Cause	
Enabled	<input checked="" type="radio"/> true
Connector	<div> MongoDbConnector MongoDbConnector MongoDbConnector1 </div>

4. Go to the database and you should see the devices collections created with the document and associated tags.



Set up a point

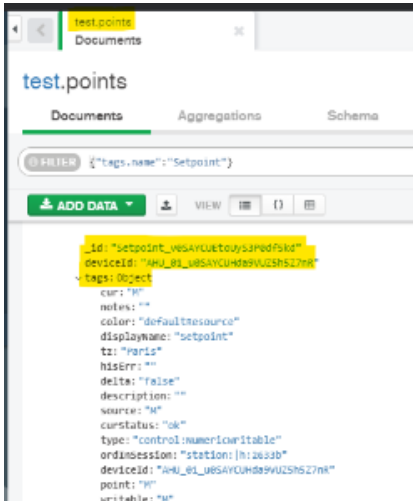
1. From the btibMongoDb palette, drag and drop the **MongoPointExt** to a point.



2. Edit the device query to point to your device which contains the Device Extension. By default, the extension will look for the parent device but you can change it to use any other component that contains a MongoDevice extension.

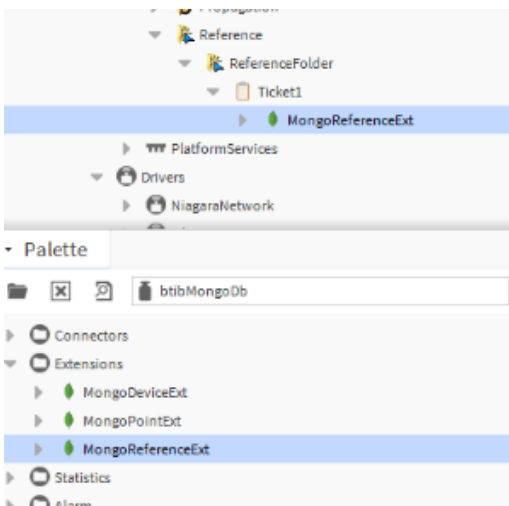
Property Sheet	
MongoPointExt (Mongo Point Ext)	
Advanced Config	Advanced Config
Status	{ok}
Fault Cause	
Enabled	<input checked="" type="checkbox"/> true
Device Query	slot:.. neql:traverse n:parentDevice->
Trigger On Value Change Only	<input checked="" type="checkbox"/> true
Can Write	<input checked="" type="checkbox"/> true

3. Go to the database and you should see points collection created with the document and associated tags.



Setup a reference

1. Go to the palette and drag&drop.



2. Modify the query to point on a device.

Property Sheet	
Ticket1 (Fix Reference)	
Id	SlkjauSHBYGy7656S876AByS66
Link	https://example.com/t/SlkjauSHBYGy7656S876AByS66
name	ticket111
▼ MongoReferenceExt Mongo Reference Ext	
Status	{ok}
Fault Cause	
Enabled	<input checked="" type="checkbox"/> true
Device Query	station: slot:/Drivers/BacnetNetwork/AHU_01

3. Change a property on the reference.

Property Sheet	
Ticket1 (Fix Reference)	
Id	SlkjauSHBYGy7656S876AByS66
Link	https://example.com/t/SlkjauSHBYGy7656S876AByS66
name	ticket1
▼ MongoReferenceExt Mongo Reference Ext	
Status	{ok}
Fault Cause	
Enabled	<input checked="" type="checkbox"/> true
Device Query	station: slot:/Drivers/BacnetNetwork/AHU_01

4. You should see the new value populated in the database.

test.points Documents

test.points

Documents Aggregations Schema Ex

FILTER {"name":"ticket1"}

ADD DATA VIEW

```
_id: "SlkjauSHBYGy7656S876AByS66"
id: "SlkjauSHBYGy7656S876AByS66"
link: "https://example.com/t/SlkjauSHBYGy7656S876AByS66"
name: "ticket1"
pointId: "SlkjauSHBYGy7656S876AByS66"
```

Next Step

Step 3 Send messages to MongoDB from Niagara