

IBM[®] MessageSight[™] Virtual Appliance Configuration for MaaS360

IBM MessageSight can be configured with MaaS360 to deliver notifications to Android devices. This can be used as an alternative to Google Cloud Messaging (GCM) notification.

Prerequisites

1. Deploy IBM MessageSight virtual appliance version 1.2 using IBM MessageSight's installation documentation.
2. Procure a trusted SSL certificate.

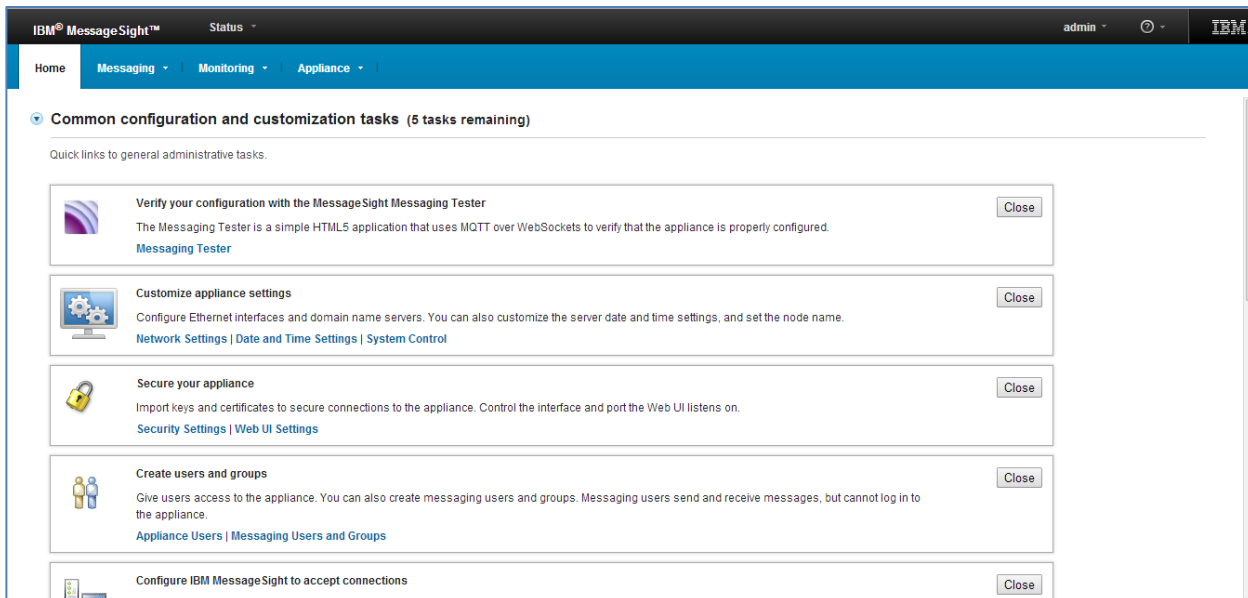
MessageSight Configuration

1. Log in to IBM MessageSight (<https://xx.xx.xx.xx:9087/login.jsp> , where xx.xx.xx.xx is the IP address set earlier).

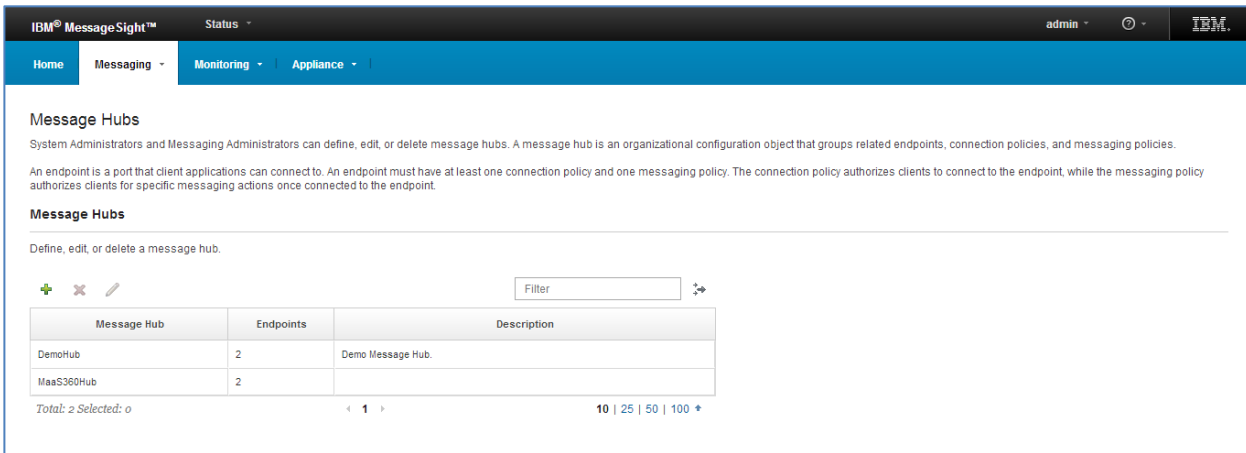
Username: *admin*
Password: *admin*

Change the port number, if it has changed.

2. After successfully logging in, the following screen appears:



3. Select Messaging > Message Hub to display a list of Message Hubs:



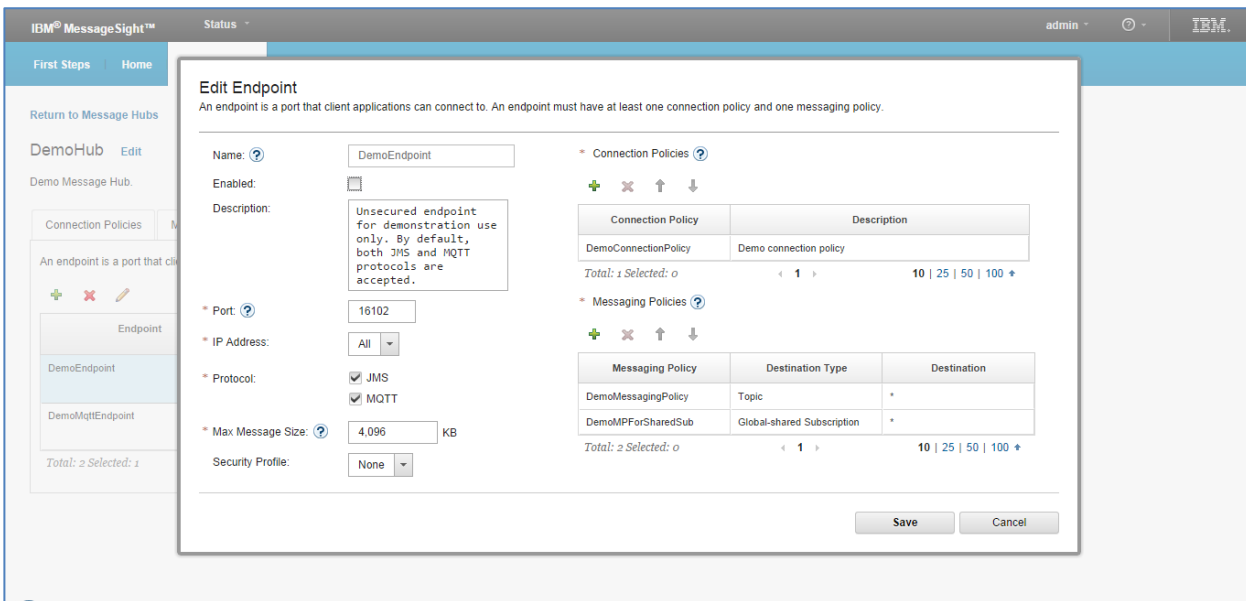
The screenshot shows the IBM MessageSight interface. The top navigation bar includes 'Home', 'Messaging', 'Monitoring', and 'Appliance'. The 'Messaging' menu is expanded, and 'Message Hubs' is selected. Below the navigation, there is a section titled 'Message Hubs' with a brief description: 'System Administrators and Messaging Administrators can define, edit, or delete message hubs. A message hub is an organizational configuration object that groups related endpoints, connection policies, and messaging policies. An endpoint is a port that client applications can connect to. An endpoint must have at least one connection policy and one messaging policy. The connection policy authorizes clients to connect to the endpoint, while the messaging policy authorizes clients for specific messaging actions once connected to the endpoint.'

Below the description, there is a table listing the Message Hubs:

| Message Hub | Endpoints | Description |
|-------------|-----------|-------------------|
| DemoHub | 2 | Demo Message Hub. |
| MaaS360Hub | 2 | |

At the bottom of the table, it says 'Total: 2 Selected: 0' and there are navigation arrows and a page size selector '10 | 25 | 50 | 100'.

4. Open DemoHub. Clear the Enabled checkbox to disable both endpoints.



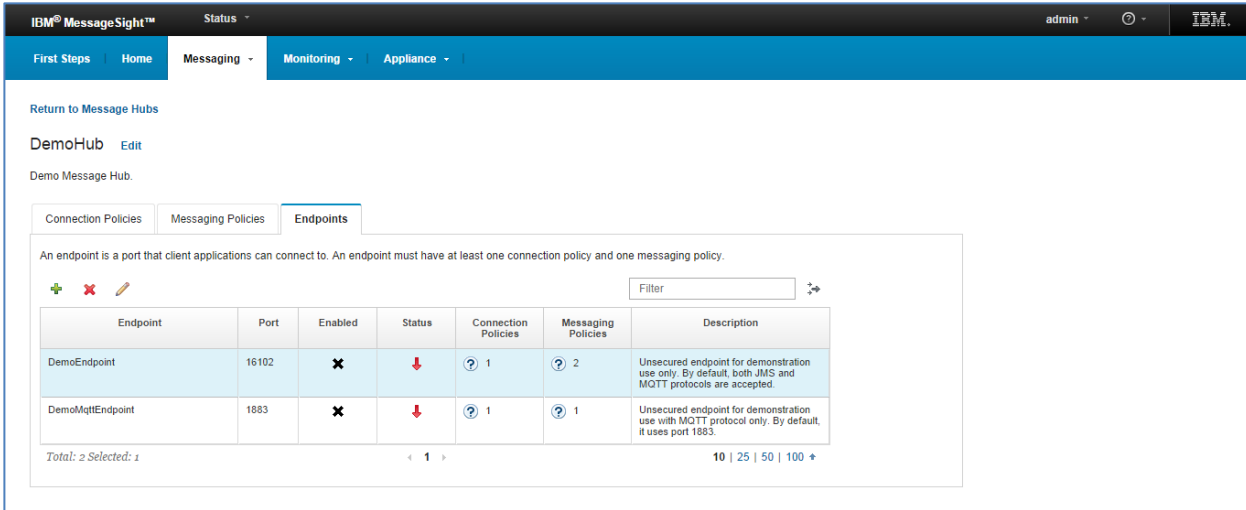
The screenshot shows the IBM MessageSight interface with the 'Edit Endpoint' dialog box open. The dialog box is titled 'Edit Endpoint' and contains the following fields and sections:

- Name:** DemoEndpoint
- Enabled:** (unchecked)
- Description:** Unsecured endpoint for demonstration use only. By default, both JMS and MQTT protocols are accepted.
- Port:** 16102
- IP Address:** All
- Protocol:** JMS, MQTT
- Max Message Size:** 4,096 KB
- Security Profile:** None

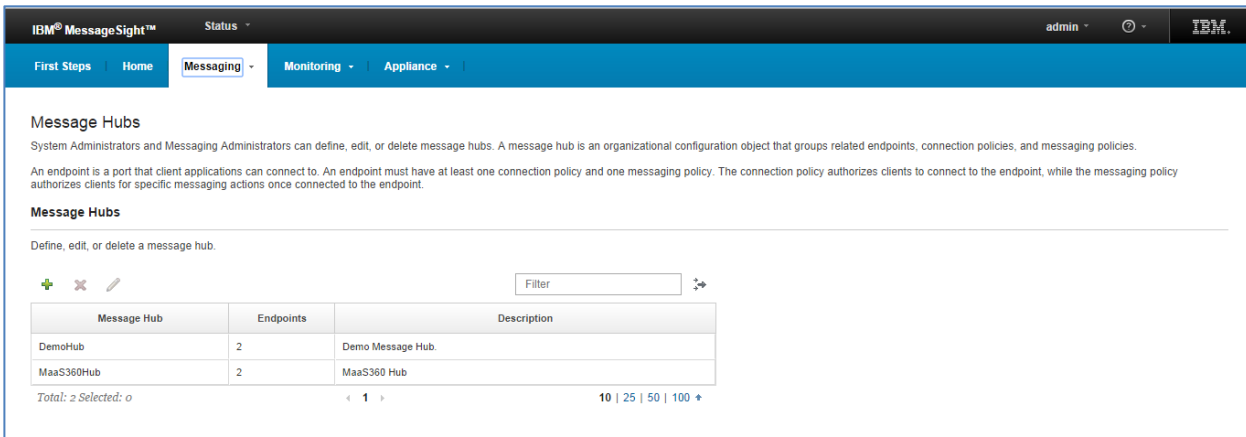
There are two sections for selecting policies:

- Connection Policies:** A table with one entry: DemoConnectionPolicy (Demo connection policy). Total: 1 Selected: 0.
- Messaging Policies:** A table with two entries: DemoMessagingPolicy (Topic) and DemoMPForSharedSub (Global-shared Subscription). Total: 2 Selected: 0.

At the bottom of the dialog box, there are 'Save' and 'Cancel' buttons.



5. Add a new message hub by entering *MaaS360Hub* as the name.



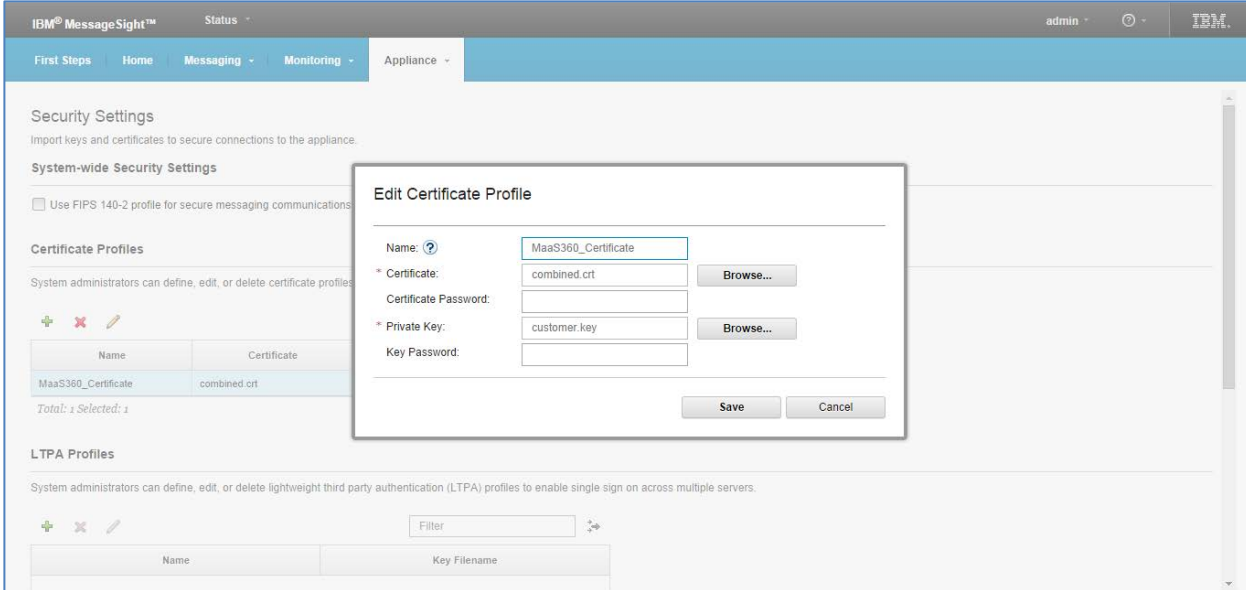
6. Configure Security Settings

- a. Navigate to Appliance > Security Settings
- b. Create a new Certificate Profile called *MaaS360_Certificate*

A Certificate Profile is created by uploading the SSL certificate, its server certificate chain and its private key. The server certificate should be issued by a trusted CA.

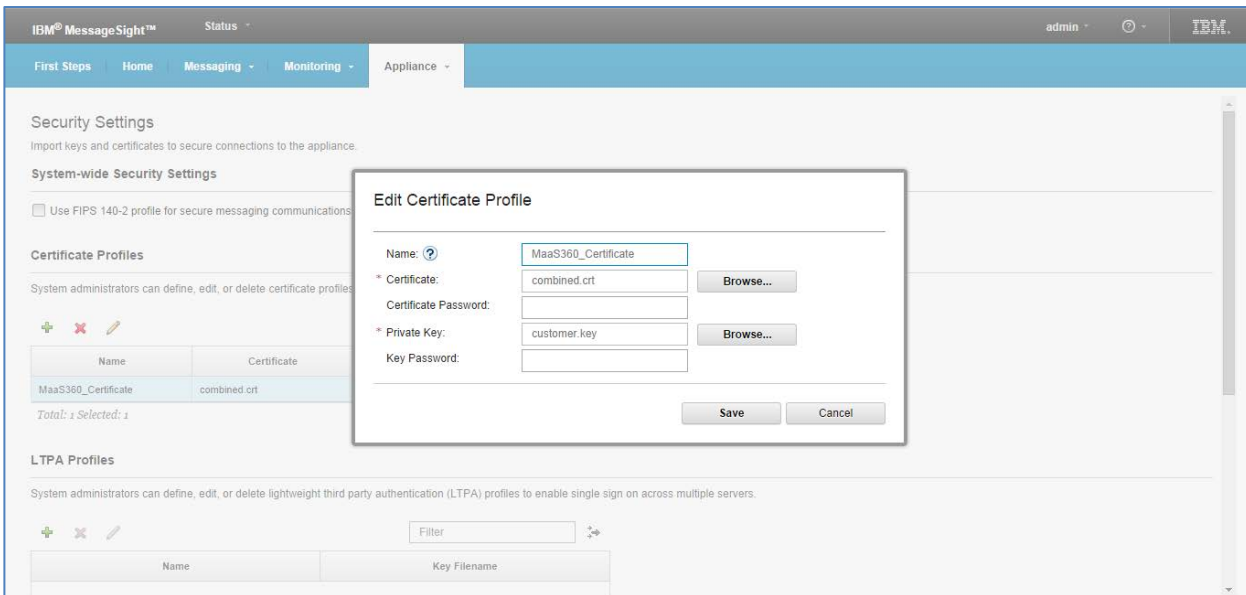
Note: You should concatenate the SSL certificate and all intermediate CAs into a single file and upload that in the Certificate prompt shown in the graphic below.

- c. Upload the certificate chain file and the private key.

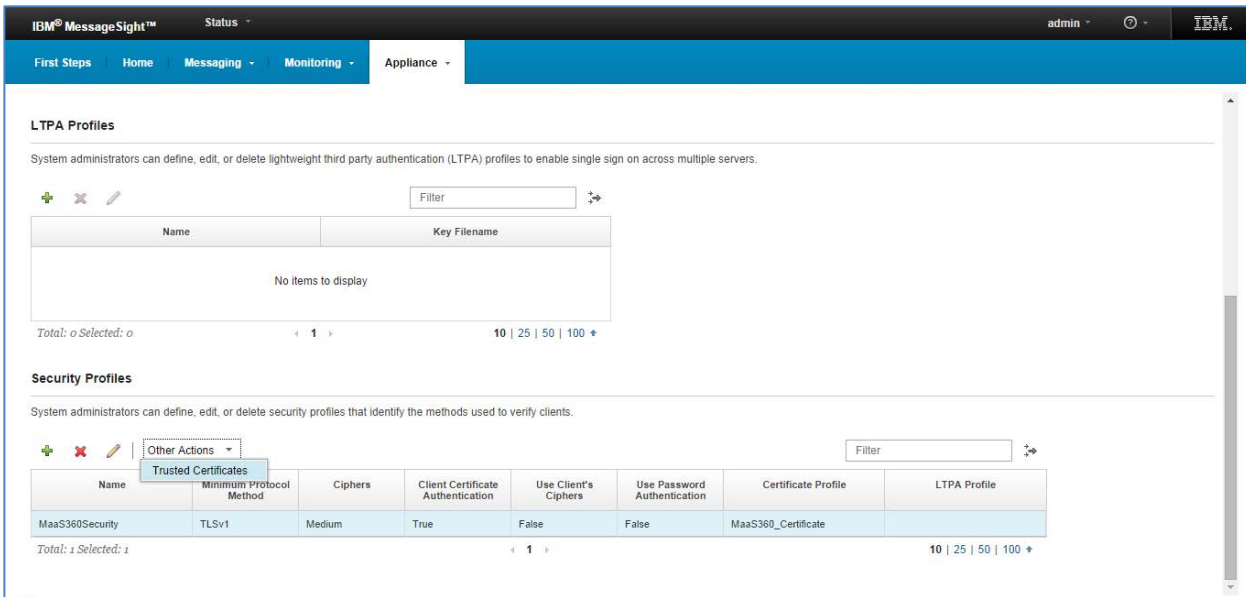


7. Configure Security Profiles:

- a. Navigate to **Appliance > Security Settings**
- b. Create a new security profile called *MaaS360Security*
- c. The security profile is created by selecting the certificate profile created previously
- d. **Minimum Protocol Method:** *TLSv1*
- e. **Ciphers:** *Medium*
- f. **Client Certificate Authentication:** Selected (enabled)
- g. **Certificate Profile:** *MaaS360_Certificate*
- h. **Use password Authentication:** Cleared (disabled)



i. Add trusted certificates



After selecting the security profile, the Trusted Certificates can be uploaded using **Other Actions**. The MaaS360 Root CA and the Device Sub CA public certificates must be uploaded to this trusted certificates list.

They can be downloaded from the MaaS360 Admin Console by performing the following steps:

- i. Log on to the MaaS360 Admin Console
- ii. Select the **Troubleshooting** tab
- iii. Select **Download Certificates**

This will display a list of certificates that are available for download.

- iv. Under **Scep Server Certificates** you should see *Scep_Server_Root_Certificate* and *Scep_Server_Subordinate_Certificate*
- v. Download the two pem files (*scep-server-root.pem*, *scep-server-subordinate.pem*) and upload them in Trusted Certificates as shown below

Trusted Certificates
Upload or delete certificates to the trust store for a security profile

Certificate:

| Certificate |
|-----------------------------|
| SCEP-Server-Root.pem |
| SCEP-Server-Subordinate.pem |

Total: 2 Selected: 0

| Name | Minimum Protocol Method | Ciphers | Client Certificate Authentication | Use Client's Ciphers | Use Password Authentication | Certificate Profile | LTPA Profile |
|-----------------|-------------------------|---------|-----------------------------------|----------------------|-----------------------------|---------------------|--------------|
| MaaS360Security | TLSv1 | Medium | True | False | False | MaaS360_Certificate | |

Total: 1 Selected: 1

8. Double-click MaaS360Hub

Return to Message Hubs

MaaS360Hub [Edit](#)

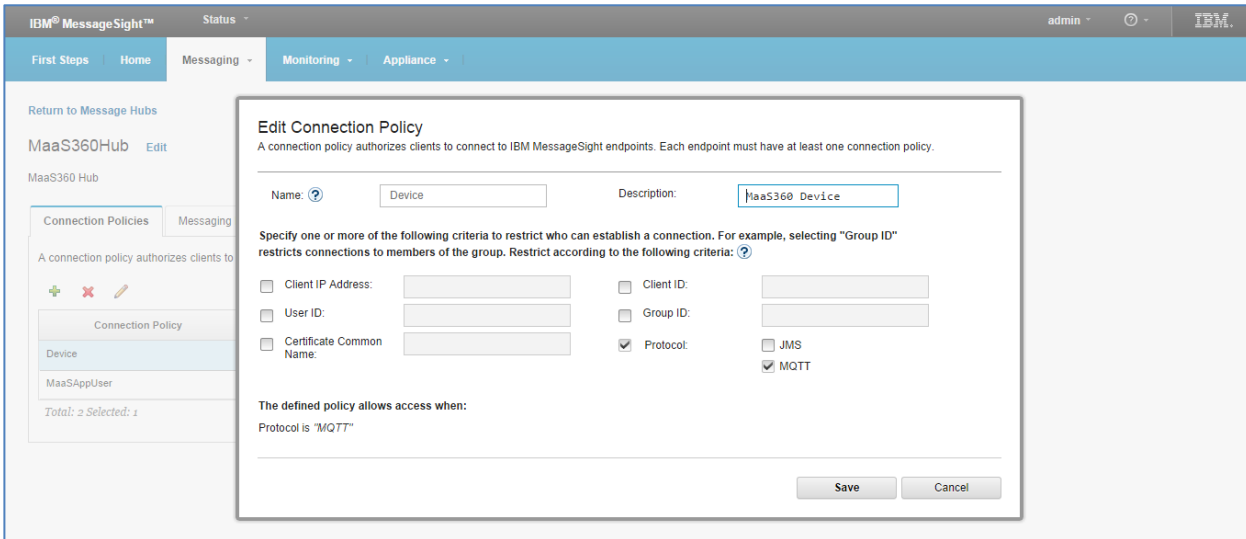
[Connection Policies](#) | [Messaging Policies](#) | [Endpoints](#)

A connection policy authorizes clients to connect to IBM MessageSight endpoints. Each endpoint must have at least one connection policy.

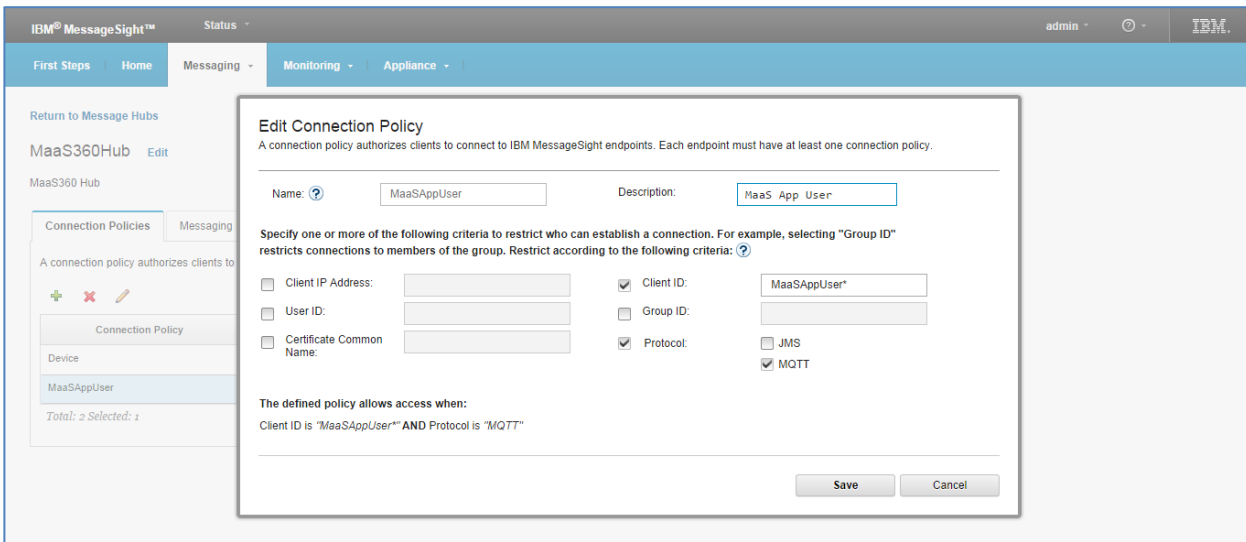
| Connection Policy | Endpoints | Description |
|-------------------|---|-----------------------------|
| Device | <input type="button" value="1"/> <input type="button" value="ⓘ"/> | MaaSDevice |
| MaaSAppUser | <input type="button" value="1"/> <input type="button" value="ⓘ"/> | MaaS App User (MaaS Server) |

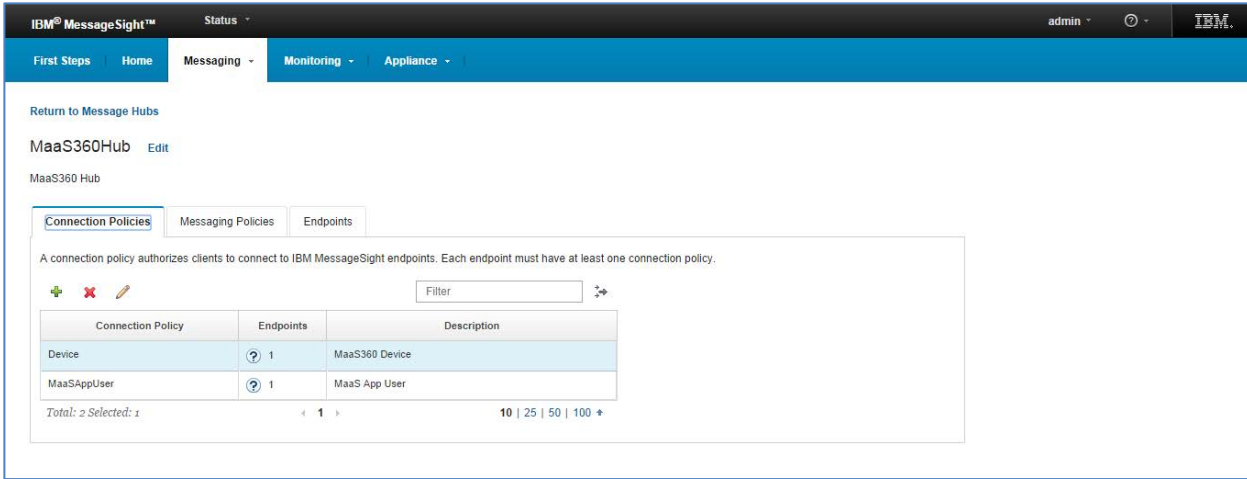
Total: 2 Selected: 0

- On the first tab, Connection Policies, add two connection policies for *Device* and *MaaS App User (MaaS Server)*. The protocol should be *MQTT* only.



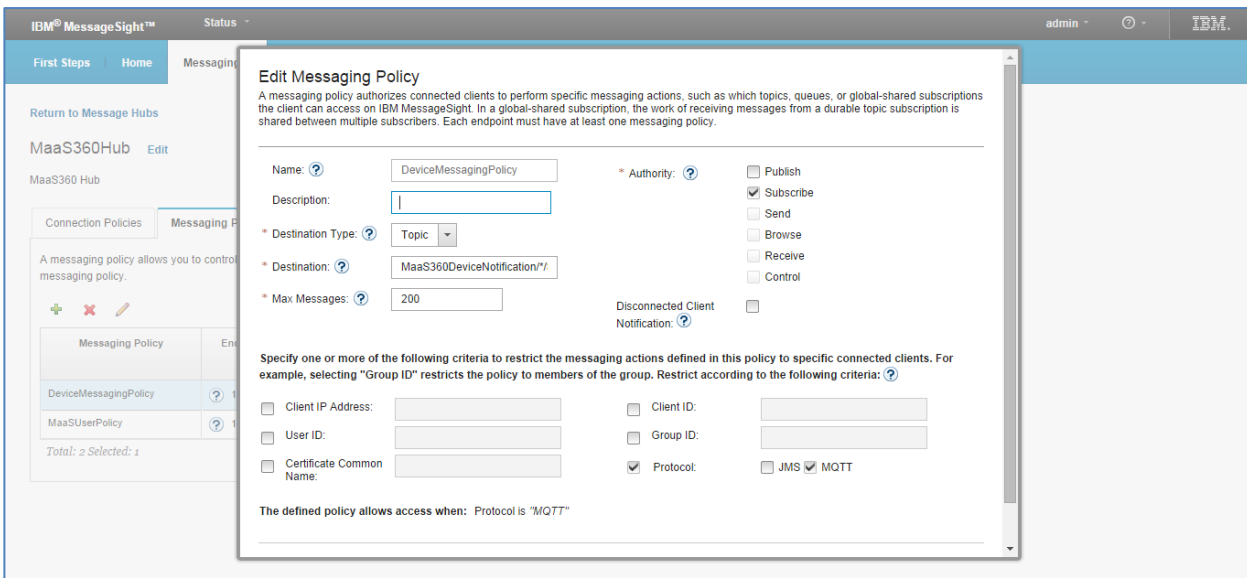
For the MaaS360 App User (MaaS Server) Connection Policy, specify the Client ID as *MaaSAppUser**.





10. On the next tab, Messaging Policies, add one messaging policy for Devices and another messaging policy for MaaS App User (MaaS Server):

- a. For DeviceMessagingPolicy:
 - i. Authority: *Subscribe*
 - ii. Destination Type: *Topic*
 - iii. Destination: *MaaS360DeviceNotification/*/\${CommonName}*
 - iv. Max Messages: *200*
 - v. Protocol: *MQTT*

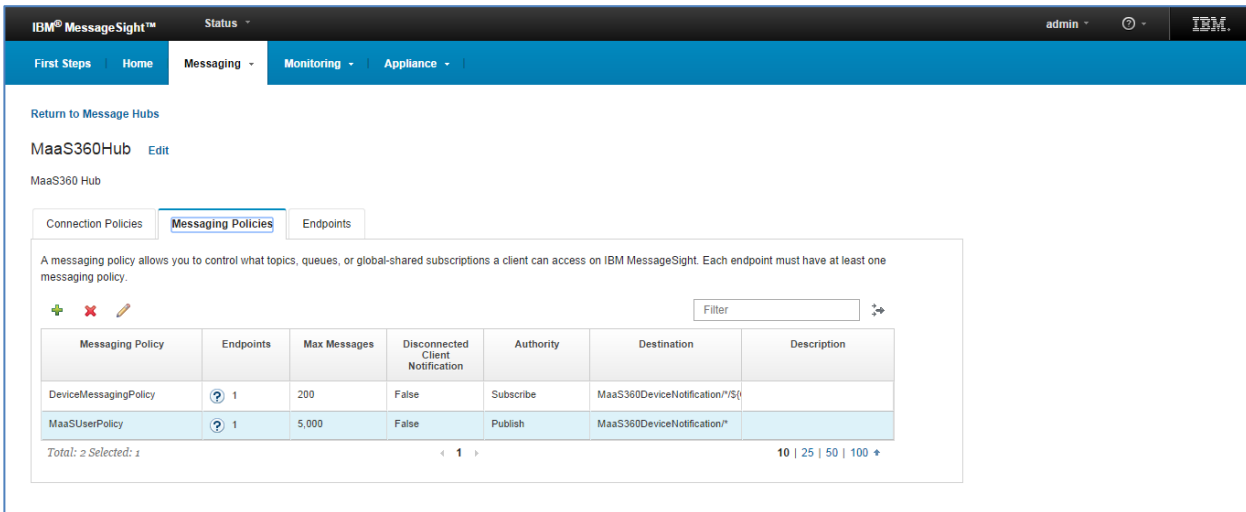
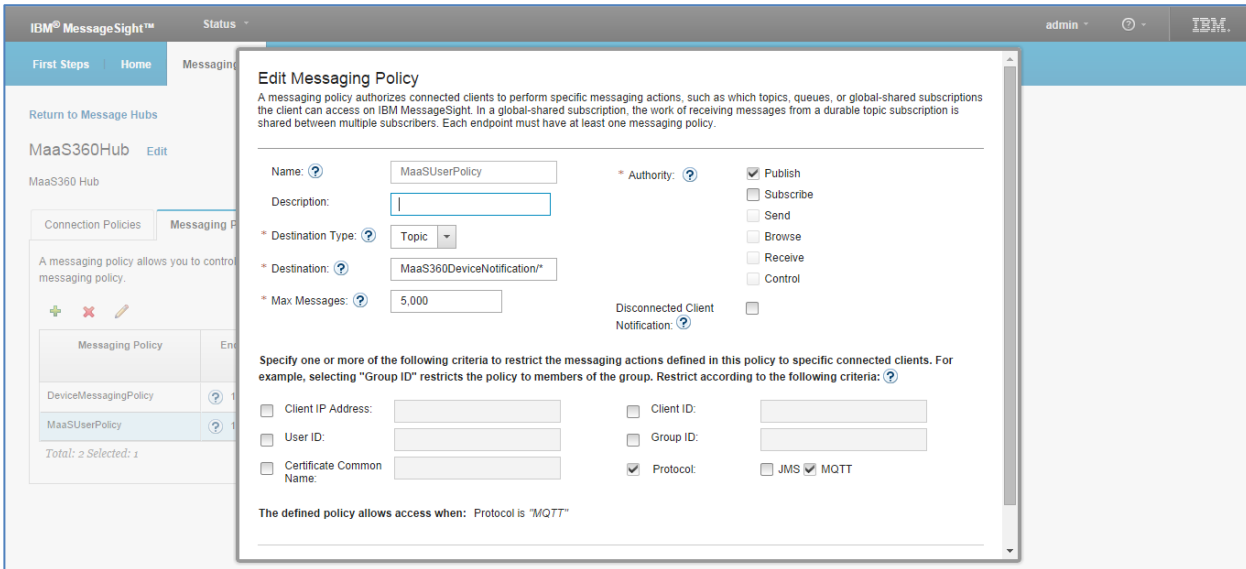


b. For MaaSUserPolicy:

This policy should be used on a separate endpoint on a different port which can be accessed only by MaaS360.

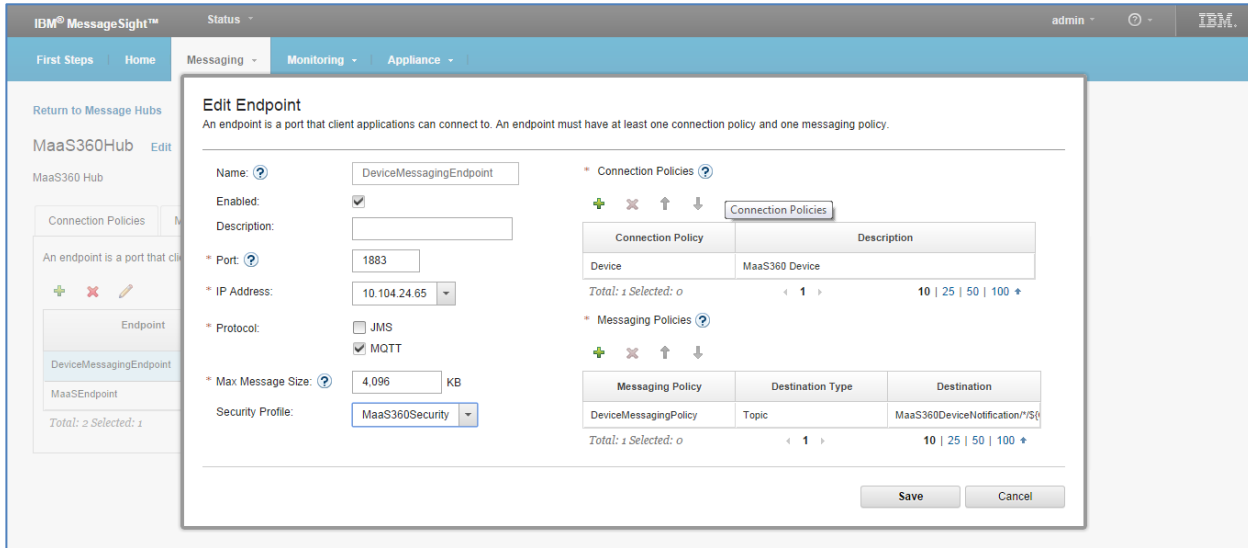
- i. Authority: *Publish*

- ii. Destination Type: *Topic*
- iii. Destination: *MaaS360DeviceNotification/**
- iv. Max Messages: *5000*
- v. Protocol: *MQTT*



- 11. On the next tab, **Connection Endpoints**, add one endpoint policy for Devices and another endpoint policy for MaaS App User (MaaS Server):
 - a. For DeviceMessagingEndpoint:
 - i. Enabled: Checked (selected)
 - ii. Port: *1883*
 - iii. IP Address: Enter the IP address of the MessageSight server
 - iv. Protocol: *MQTT*

- v. Max Message Size: 4096
- vi. Security Profile: *MaaS360Security*



Edit Endpoint
An endpoint is a port that client applications can connect to. An endpoint must have at least one connection policy and one messaging policy.

Name:

Enabled:

Description:

Port:

IP Address:

Protocol: JMS MQTT

Max Message Size: KB

Security Profile:

Connection Policies

| Connection Policy | Description |
|-------------------|----------------|
| Device | MaaS360 Device |

Total: 1 Selected: 0

Messaging Policies

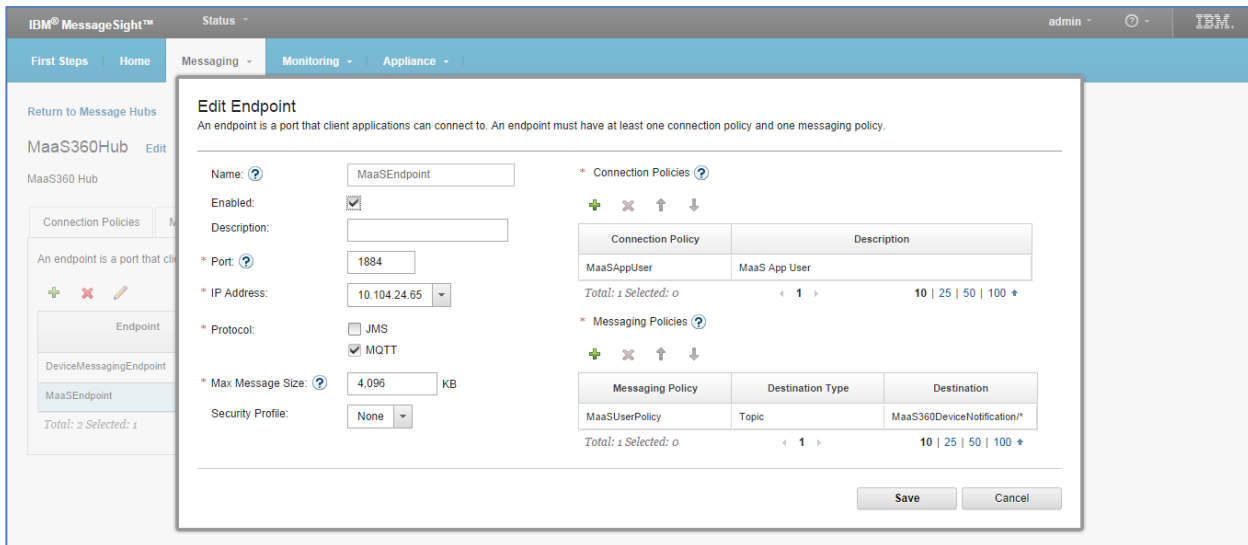
| Messaging Policy | Destination Type | Destination |
|-----------------------|------------------|------------------------------|
| DeviceMessagingPolicy | Topic | MaaS360DeviceNotification*/5 |

Total: 1 Selected: 0

Buttons: Save, Cancel

b. For MaaSEndpoint:

- i. Enabled: Checked (selected)
- ii. Port: 1884
- iii. IP Address: Enter the IP address of the MessageSight server
- iv. Protocol: *MQTT*
- v. Max Message Size: 4096
- vi. Security Profile: *MaaS360Security*



Edit Endpoint
An endpoint is a port that client applications can connect to. An endpoint must have at least one connection policy and one messaging policy.

Name:

Enabled:

Description:

Port:

IP Address:

Protocol: JMS MQTT

Max Message Size: KB

Security Profile:

Connection Policies

| Connection Policy | Description |
|-------------------|---------------|
| MaaSAppUser | MaaS App User |

Total: 1 Selected: 0

Messaging Policies

| Messaging Policy | Destination Type | Destination |
|------------------|------------------|----------------------------|
| MaaSUserPolicy | Topic | MaaS360DeviceNotification* |

Total: 1 Selected: 0

Buttons: Save, Cancel



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