



Huawei Cloud – SendQuick Cloud Integration Guide

Version 1.0

SendQuick Pte Ltd

76 Playfair Road

#08-01 LHK2 Building

Singapore 367996

Tel : +65 6280 2881 Fax : +65 6280 6882

Email : info@sendquick.com

www.SendQuick.com

REVISION SHEET

Release No.	Date	Description
1.0	29/01/2021	First published version

Table of Contents

1.0 Introduction	4
1.1 About SendQuick Pte Ltd	4
1.2 About SendQuick Cloud	4
1.3 Purpose of Document	4
2.0 Configure in SendQuick Cloud.....	5
2.1 Email Filters in SendQuick Cloud	5
2.2 Cloud Provider in SendQuick Cloud using Webhook	7
3.0 Configure Huawei Cloud SMN Alert Subscription	8
3.1 Configure Email and WebHook for SendQuick Cloud in Huawei Cloud	8
4.0 Configure Notification Rules with SMTP and Webhook	12

Alibaba Cloud Monitor – Cloud Integration Guide

1.0 Introduction

1.1 About SendQuick Pte Ltd

SendQuick™ develops and offers **enterprise mobile messaging solutions** to facilitate and improve business workflow and communication, and is widely used in areas such as IT alerts & notifications, secure remote access via 2-Factor Authentication, emergency & broadcast messaging, business process automation and system availability monitoring.

In addition to functionality, SendQuick’s messaging solutions have also been developed with other key features in mind. These include **security** and **confidentiality** of company information, and **ease in mitigating disruption** during unplanned system downtime such as that arising from cyberattacks.

1.2 About SendQuick Cloud

SendQuick Cloud is a cloud based Software-as-a-Service (SaaS) application to monitor and notify for cloud based incidents with omni-channel messaging capability. It has ability to monitor using ICMP Ping, Port check and URL check. It has policy based notifications using Email and Webhook, supporting any applications as well as Cloud Providers like AWS, Azure, Alibaba Cloud, Google Cloud, Huawei and Oracle. Given the above integration methods, SendQuick Cloud is able to work with any applications to send notifications. Supporting notification channels include SMS, Telegram, Slack, Facebook Messenger and others. Lastly, there is Roster for messaging based on duties and time frame for each recipient, reducing alert fatigue.

1.3 Purpose of Document

This document is a guide on how to integrate SendQuick Cloud with Huawei Cloud to send message notifications and alerts. In this guide, we will be using SendQuick Cloud for the integration.

Huawei Cloud, Simple Message Notification is accessible from the Huawei Cloud Console. You will need to login to **Huawei Cloud Console** and select **Service List (on the Left Menu)** and is presented with all the Huawei Cloud services options. Navigate to **Application** and **Simple Message Notification**. You will need to configure the **Simple Message Notification (SMN)** as found in the diagram below.

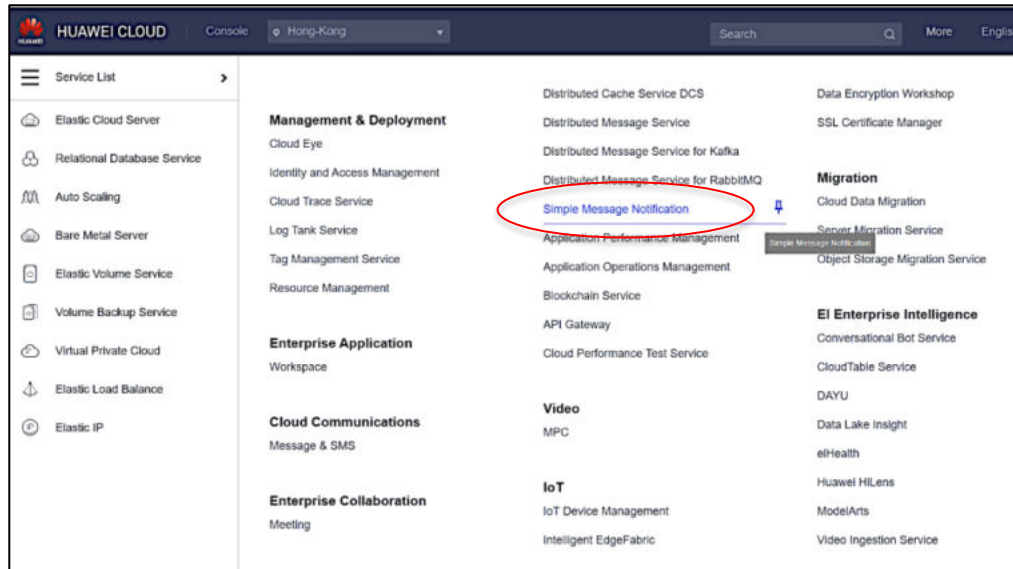


Figure 1: Huawei Cloud Service List

In Huawei Cloud Simple Message Notification (SMN), you can send Alert via Email (SMTP) and Webhook (HTTP) method. This document will explain both methods in details in the following sections.

2.0 Configure in SendQuick Cloud

SendQuick Cloud is designed to complement the systems, virtual instances, devOps and other applications on the cloud for sending message notifications when an event happen. This will your services uptime for your cloud services.

2.1 Email Filters in SendQuick Cloud

SendQuick Cloud can receive any emails (SMTP) from any applications, apply the configured filters (policies) and if the condition matches, messages will be sent to the recipients. When starting to configure, create an account in SendQuick Cloud and go to **Email Filter** (left Menu) and **Create New Mail Filter Rule**. You will be presented with the interface as shown below.

You will notice the Email Address **TO** as the first Policy item. The email address is pre-assigned by SendQuick Cloud and will follow the name of your account name. This email address cannot be changed and will be used to configure in Cloud Monitor as explained in section 3.1.

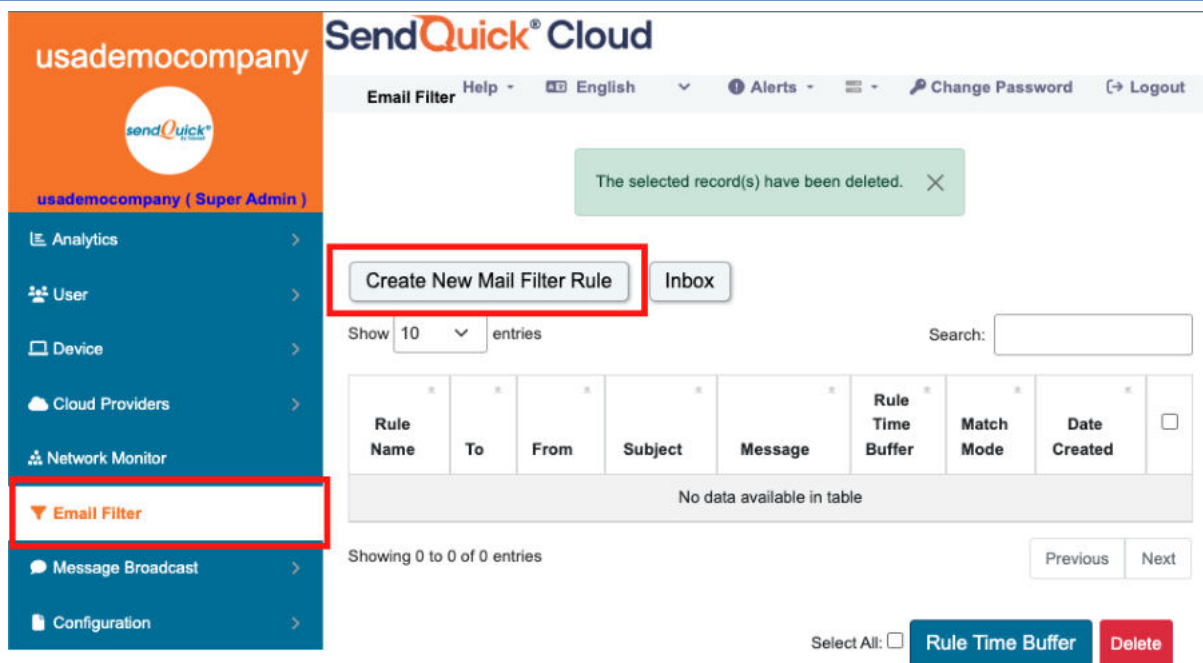


Figure 2.1: SendQuick Cloud Email Filter

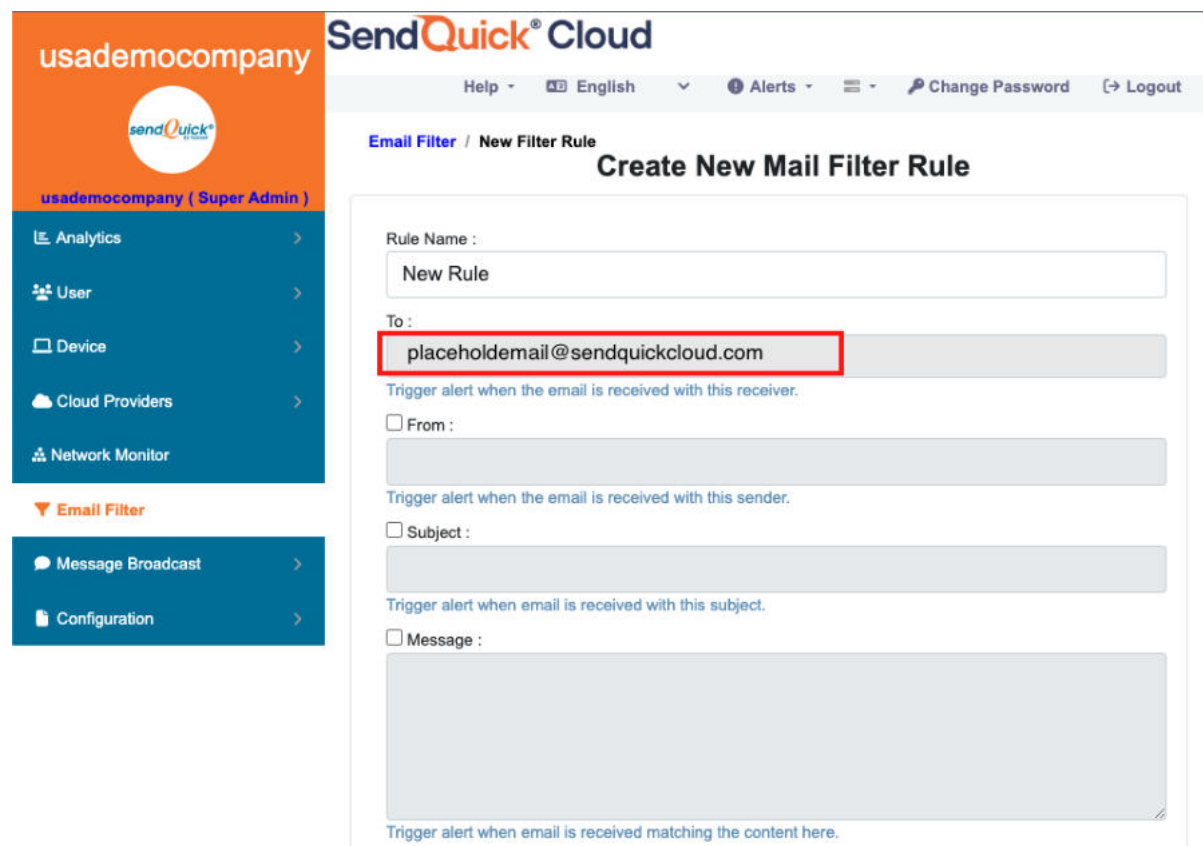
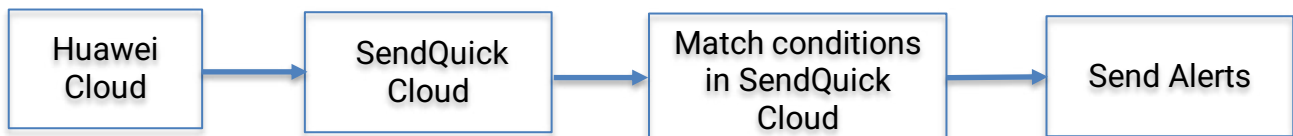


Figure 2.2: Creating New Email Filter Rule

2.2 Cloud Provider in SendQuick Cloud using Webhook

The second method to integrate between Cloud Monitor and SendQuick Cloud is using Webhook method. This is via an Application Programming Interface (API) where the event information is sent to SendQuick Cloud and SendQuick Cloud will process and check against the pre-configured policies (conditions). If the conditions are met, it will trigger an alert to the assigned users.

In summary, the flow is as below:



The webhook sending to SendQuick Cloud is found on the Service Configuration for Cloud Provider in SendQuick Cloud. This is depicted in interface below.

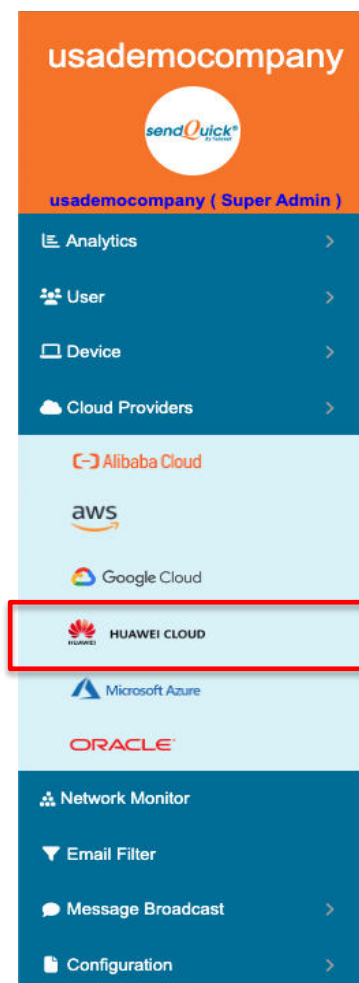
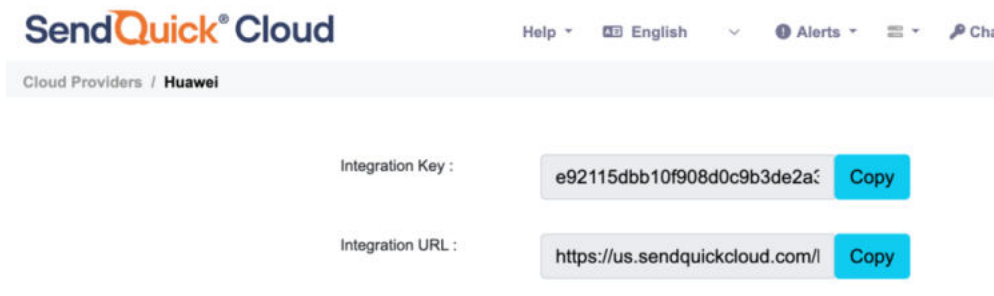


Figure 3.1: SendQuick Cloud Menu (left)

Chose the Cloud Provider as shown on the left Menu in the diagram above.

Copy the Integration URL as shown on the top of the Integration page. This is the URL to be configured in SMN as shown in section 4.0.



3.0 Configure Huawei Cloud SMN Alert Subscription

When any event happens or there is a need to send a notification alert, Huawei Cloud can trigger an email to SendQuick Cloud. SendQuick Cloud will then convert the email message to alerts and send to mobile phone based on the policy (filter) rules assigned. The email messages are sent from Huawei Cloud to SendQuick Cloud for processing.

In Huawei Cloud, the first configuration is to configure the Subscriptions (which is the contact details or alert methods) creating the recipient list to receive the notifications. Since SendQuick Cloud is used to manage the recipients on the different channels, you just need to configure one (1) email in Subscription. This is explained below.

3.1 Configure Email and WebHook for SendQuick Cloud in Huawei Cloud

On the main page of Huawei Cloud, select **SMN** to start the process. Before this you need to create a Topic first. Choose Topic and Create Topic and you will see the topic creation in Figure below.

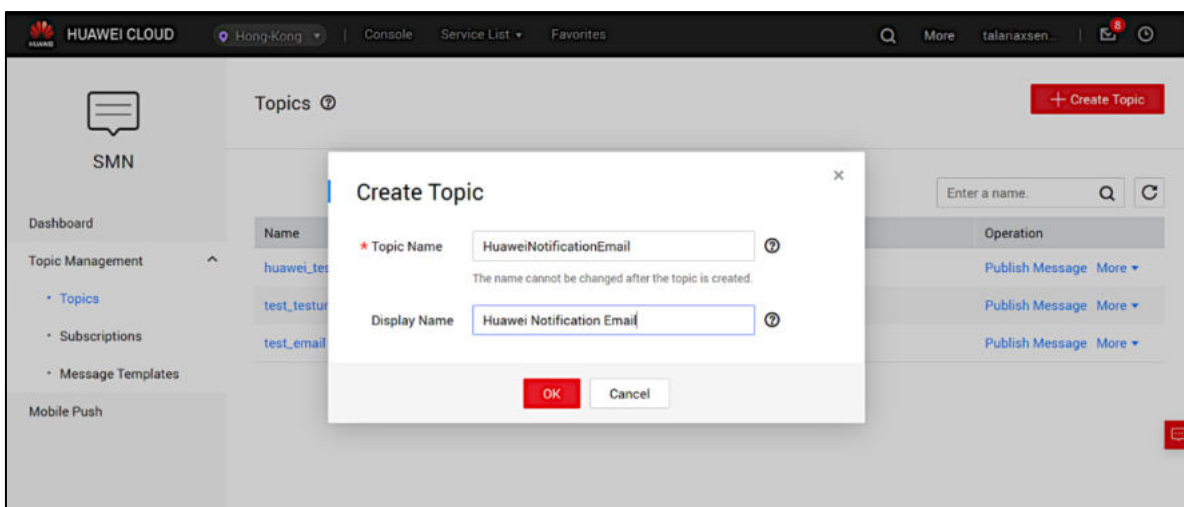


Figure 4.1: Create a New Topic

Provide a topic name and display name and click OK. A new topic is created and can be used in the next step.

Now choose **Subscription** and on the top right corner, select **Add Subscription** and you will see the option shown in the Figures below. Select the Topic (which was created earlier) and the required protocol options.

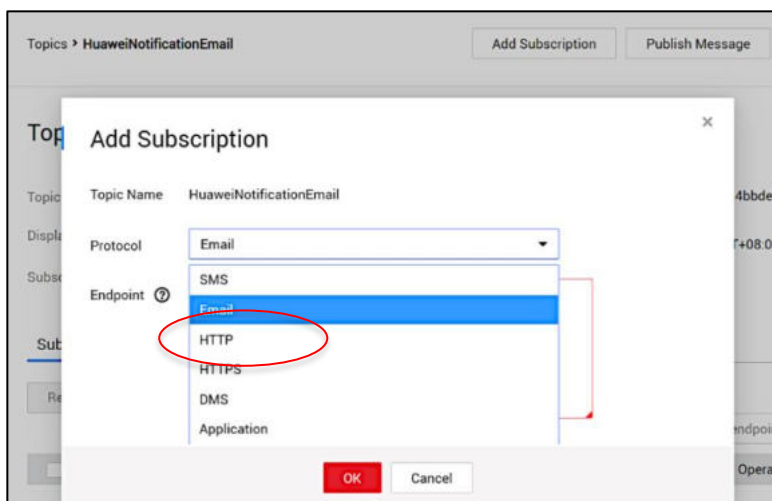


Figure 4.2: Select Email as Protocol

Select the Email Protocol and then insert the End Point email address, which is the email address from SendQuick Cloud.

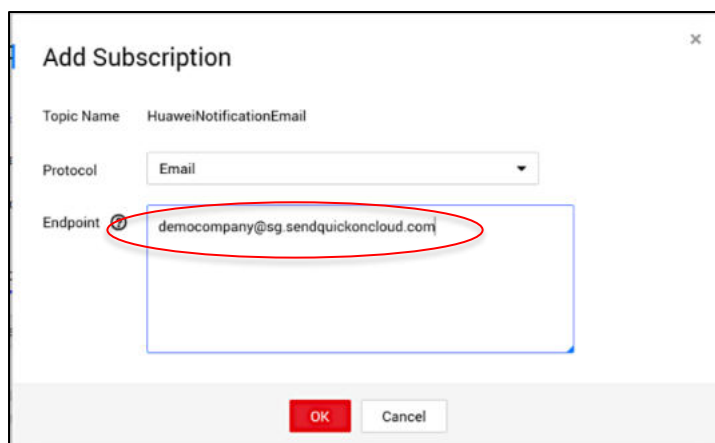


Figure 4.3: Insert Email Address from SendQuick Cloud

Once completed, select **OK**. You may be required to create or select a Topic. This will create the new contact and an email will be sent to the recipient (in this case SendQuick Cloud) for verification.

Now, you can go to SendQuick Cloud, navigate to **Mail Filter** and then **Inbox**. Select **Inbox** and you will see the email from Huawei for verification.

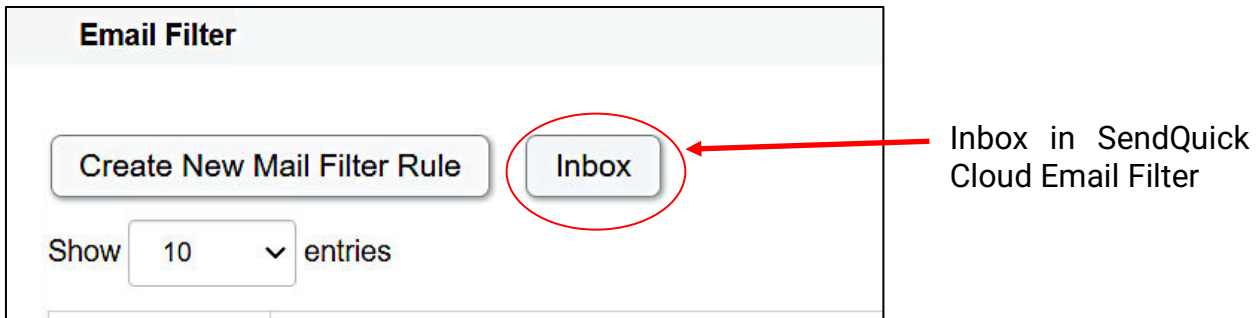


Figure 4.4: SendQuick Cloud Email Filter

The screenshot shows the 'Email Inbox' interface. At the top, there is a 'Show' dropdown menu set to '10' and the text 'entries'. On the right, there is a 'Search:' field. Below this, there is a table with the following columns: 'From', 'Subject', 'Content', and 'Date & Time'. The table contains several rows of email entries. The row for 'noreplyf02@mail01.huawei.com' is highlighted with a red oval.

From	Subject	Content	Date & Time
no-reply@sns.amazonaws.com	AWS Notification - Subscription Confirmation	You have chosen to subscribe to the topic: arn:aws:sns:us-west-1:064352110866:test To confirm this subscription...	26 Jan 2021, 16:33 PM
monitor-sg@monitor.alibabacloud.com	Alibaba Cloud Monitor-Email activation code	Alibaba Cloud Monitor-Email check code ...	26 Jan 2021, 16:27 PM
noreplyf02@mail01.huawei.com	SMN-Confirming Your Subscription	Dear Sir or Madam,Welcome to Simple Message Notification (SMN) service.You are invited to subscribe to the topic: ...	26 Jan 2021, 16:03 PM
noreply@notification.us-phoenix-1.oci.oraclecloud.com	Oracle Cloud Infrastructure Notifications Service Subscription Confirmation	You have chosen to subscribe to the topic: test_email (Topic OCID: ocid1.onstopic.oc1.phx.aaaaaaa7thq7mckml4betyzc...	26 Jan 2021, 15:42 PM
noreply@notification.us-	Oracle Cloud	...Please do not reply directly to this email. If you have any questions or	26 Jan

Figure 4.5: SendQuick Cloud Email Inbox

Select the email from Huawei and the message details will be shown. Click on the Confirm Subscription link and the confirmation/verified page will confirm the process.

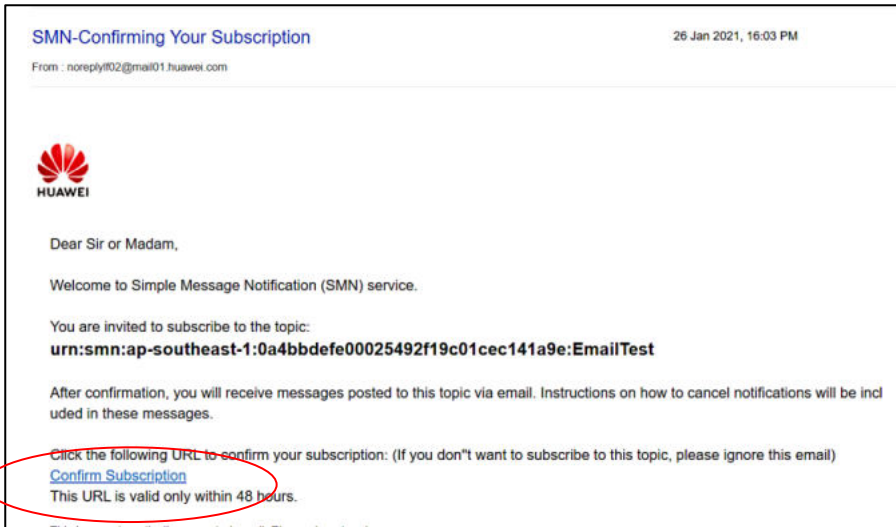


Figure 4.6: Huawei Cloud Email

Click and email is confirmed, as shown in Huawei page

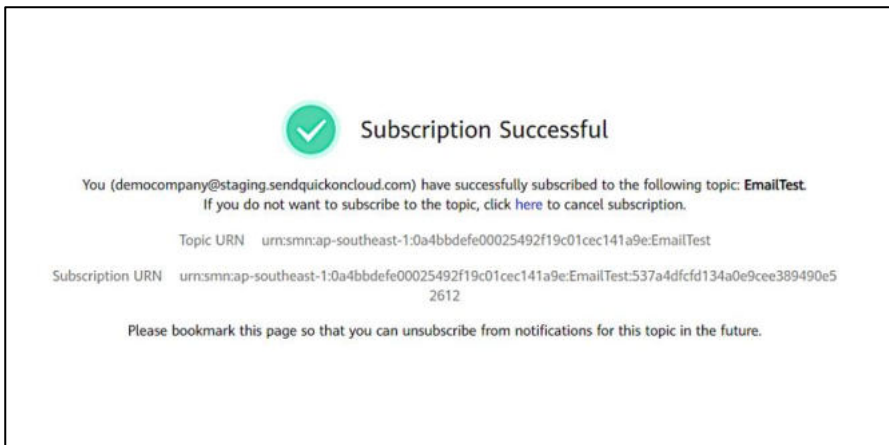


Figure 4.7: Huawei Cloud Page

Once confirmed, the email is ready to use. Now we can repeat the same process for HTTPS Webhook. Create a new Topic and Save. Add Subscription and now choose HTTPS.

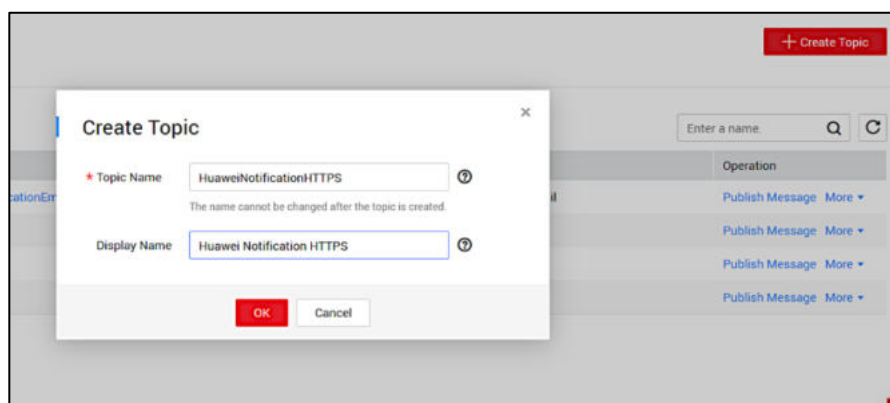


Figure 4.8: Add HTTPS Webhook Topic

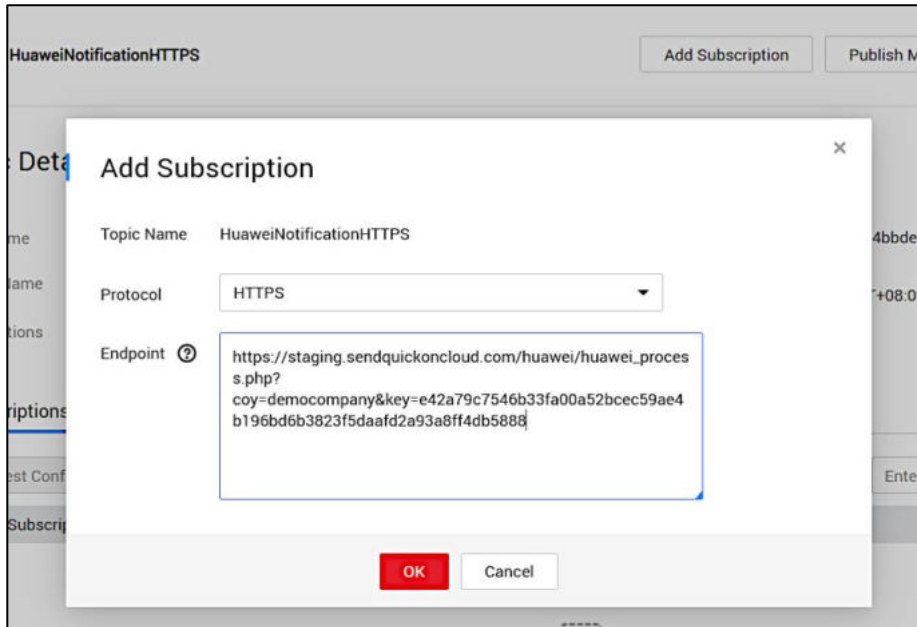


Figure 4.9: Insert SendQuick Cloud Endpoint URL

The endpoint information is from the URL found in SendQuick Cloud in Section 2 above. Copy the URL and paste in the Endpoint information above. The click OK. The Huawei will verify the webhook automatically and once Verified, will be ready to use.

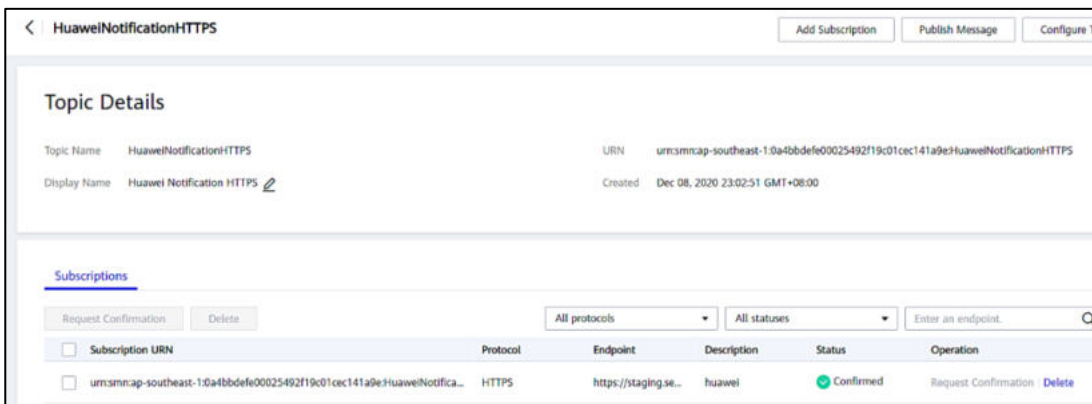


Figure 4.10: Webhook Topic Created

4.0 Configure Notification Rules with SMTP and Webhook

Once you had completed the steps in Section 3, you are ready to configure the Rules to receive notifications. Select any of the applications that you desire, example **Application Performance Management**. Select **Alarm Centre** and **Notification Rules**.

Select Create Notification Rule on the top right corner and you can insert the relevant details in the rule (as shown below).

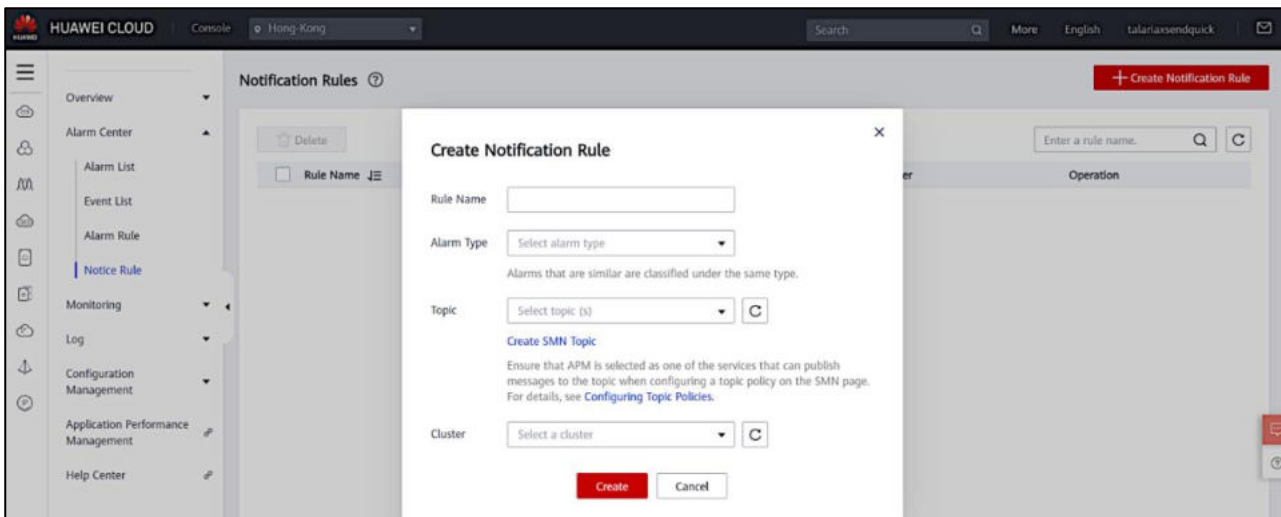


Figure 5.1: Create New Rule

Provide a **Rule Name** and select the **Alarm Type**. In the Topic, you can see the topics that were created earlier in Section 3. Or you can create a new Topic by selecting the Create SMN Topic and the process as described in Section 3 will follow.

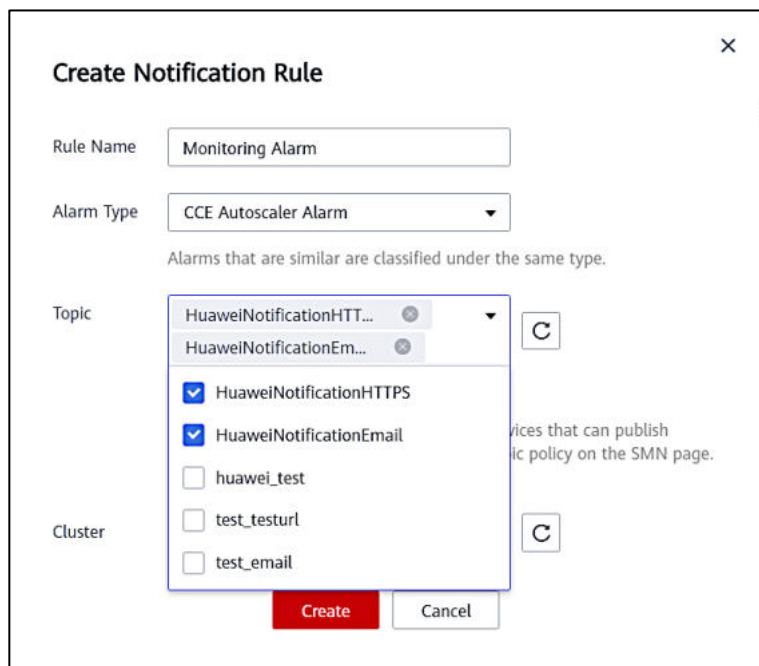


Figure 5.2: Select Topic

You can select one or multiple topics (which can be Email or webhooks) to be triggered when the event is triggered.

When event is triggered, it will send Email (if chosen) or webhook (if selected) or both to SendQuick Cloud. In SendQuick Cloud, you can configure the filtering mechanism and policy rules to send only relevant messages to mobile devices, reducing alert fatigue while sending messages important messages to the recipients. You can configure all the filter/policies and user roster to receive the alerts on their phones. For more SendQU Cloud configuration, refer to Cloud User Manual or Video Tutorial.