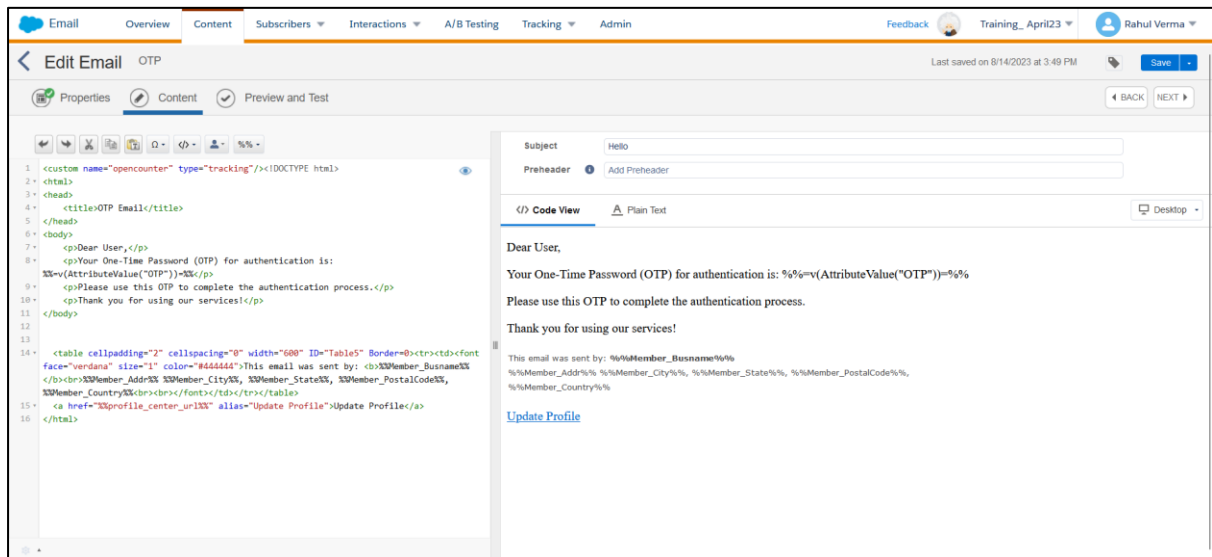


# To generate One-Time Password using Triggered Sends

## Step 1: Create an Email

Here, we create an email in content builder using HTML. The HTML code is provided which consists of a function that will display the OTP “%%=v(AttributeValue("OTP"))=%%”



The HTML code is as follows:

```
<custom name="opencounter" type="tracking"/><!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>OTP Email</title>
```

```
</head>
```

```
<body>
```

```
  <p>Dear User,</p>
```

```
  <p>Your One-Time Password (OTP) for authentication is: %%=v(AttributeValue("OTP"))=%%</p>
```

```
  <p>Please use this OTP to complete the authentication process.</p>
```

```
  <p>Thank you for using our services!</p>
```

```
</body>
```

## Step 2: Create a Triggered Send Data Extension

Here we create a Data Extension using a template and selecting “TriggeredSendDataExtension”.

“SubscriberKey” and “EmailAddress” will already be created, we will add additional 2, they are “OTP” and “SentDate” with Data Type “Number” and “Date”(Def. Val. as “Current Date”) respectively as shown below:

The screenshot displays the 'TriggeredSendDataExtension' configuration page in the Salesforce Marketing Cloud interface. The page is divided into two main sections: Properties and Fields.

**Properties Section:**

- EXTERNAL KEY:** 52DC4C35-61B9-49EA-A5EA-688EC0DF7103
- Created Date:** Monday, August 14, 2023 12:37 PM by Rahul Verma
- Last Modified Date:** Monday, August 14, 2023 12:37 PM by Rahul Verma
- Owner:** Rahul Verma
- LOCATION:** RahulV
- Type:** Standard
- USED FOR SENDING:** Yes
- USED FOR TESTING:** No
- SUBSCRIBER RELATIONSHIP:** SubscriberKey relates to Subscribers on Subscriber Key

**Fields Section:**

Name	Data Type	Length	Primary Key	Nullable	Default Value
SubscriberKey	Text	254	<input type="checkbox"/>	<input type="checkbox"/>	
EmailAddress	EmailAddress	254	<input type="checkbox"/>	<input type="checkbox"/>	
OTP	Number		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
SentDate	Date		<input type="checkbox"/>	<input type="checkbox"/>	Current Date

## Step 3: Create a Triggered Send Definition

Going into the “Interactions” tab we have to go into the “Triggered Sends” section and create a Triggered Send with the settings as shown in the screenshot below:

The screenshot displays the 'Triggered Sends' configuration page in the Salesforce Marketing Cloud interface. The page is divided into two main sections: Properties and Content.

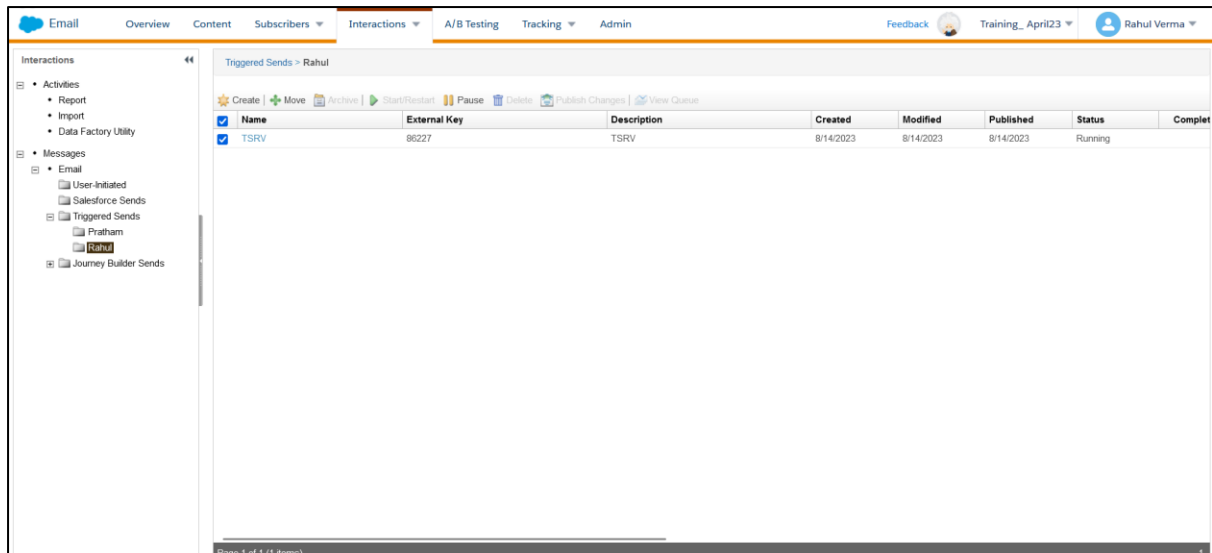
**Properties Section:**

- Name (required):** TSRV
- External Key:** 80221
- Description:** TSRV
- Send Classification (required):** Default Commercial
- Override Sender Profile with:** Rahul
- Override Delivery Profile with:** Default

**Content Section:**

- Email (required):** Anil kumar, Lakshmi, Pratham, RahulV, OTP, RahulOTP, Ram\_Test, Sravani

Now, we have to save the Triggered Send and go back and start it by selecting the created Triggered Send and then clicking the “Start/Restart” button on top as shown below:



#### **Step 4: Create a CloudPage**

Here, we have to go into “Web Studio” on SFMC homepage and then go into the “CloudPages” section from the drop-down menu. After entering the CloudPages section, we create a collection and then we use “Code Snippet” and paste the code in the box.

The code is as follows:

```
%%[

IF RequestParameter("submitted") == true THEN
/* generate an OPT */

set @num1 = 1000
set @num2 = 9999

set @OTP = random(@num1, @num2)
/* send a triggered email containing the opt */
SET @ts = CreateObject("TriggeredSend")
SET @tsDef = CreateObject("TriggeredSendDefinition")
SET @ts_extkey = "86227" /* replace with ID of your Triggered Send */
SET @ts_email = RequestParameter("email")
SetObjectProperty(@tsDef, "CustomerKey", @ts_extkey)
SetObjectProperty(@ts, "TriggeredSendDefinition", @tsDef)
SET @ts_sub = CreateObject("Subscriber")
SetObjectProperty(@ts_sub, "EmailAddress", @ts_email)
SetObjectProperty(@ts_sub, "SubscriberKey", @ts_email)
SET @attr = CreateObject("Attribute")
SetObjectProperty(@attr, "Name", "OTP")
SetObjectProperty(@attr, "Value", @OTP)
AddObjectArrayItem(@ts_sub, "Attributes", @attr)
```

```

AddObjectArrayItem(@ts, "Subscribers", @ts_sub)

SET @ts_statusCode = InvokeCreate(@ts, @ts_statusMsg, @errorCode)

/* display a form where subscriber submits otp */

]%%

<form action="%%=RequestParameter('PAGEURL')=%%" method="post">

<label>OTP: </label><input type="text" name="OTP" required=""><br>

<input name="email" type="hidden" value="%%=RequestParameter('email')=%%"><br>

<input name="submittedOTP" type="hidden" value="true"><br>

<input type="submit" value="Submit">

</form>

%%[

ELSEIF RequestParameter("submittedOTP") == true THEN

SET @OTP = RequestParameter('OTP')

SET @email = RequestParameter("email")

/* check OTP against the DE */

set @rows = LookupOrderedRows("TriggeredSendDataExtension", 1, "SentDate desc", "EmailAddress", @email)

if @rowCount > 0 then

    set @row = row(@rows, 1)

    set @deOTP = field(@row, "OTP")

endif

if @otp == @deOTP then

]%%

OTP verified

%%[ else ]%%

OTP not verified

%%[ endif ]%%

%%[ ELSE ]%%

<form action="%%=RequestParameter('PAGEURL')=%%" method="post">

<label>Email: </label><input type="text" name="email" required=""><br>

<input name="submitted" type="hidden" value="true"><br>

<input type="submit" value="Submit">

</form>

%%[ ENDIF ]%%

```

In the code above we have to enter our own “External Key”: [ SET @ts\_extkey = "86227"]  
and also enter the name of our “Triggered Send Data Extension”:  
[set @rows = LookupOrderedRows("TriggeredSendDataExtension", 1, "SentDate desc", "EmailAddress", @email)]

CloudPages
Feedback
Training\_April23
Rahul Verma

RahuIV > RahuIV
Landing Page
Page Properties

Page URL: <https://mclxdpbrg2n9j1y8ftm46zszshqy.pub.sfmc-content.com/sqya11jpyii>
Save
Schedule/Publish

Content
Code Snippet

```

1 %[%
2 IF RequestParameter("submitted") == true THEN /* generate an OPT */
3
4 /* generate an OPT */
5
6 set @num1 = 1000
7 set @num2 = 9999
8 set @OTP = random(@num1, @num2)
9
10 /* send a triggered email containing the opt */
11
12 SET @ts = CreateObject("TriggeredSend")
13 SET @tsDef = CreateObject("TriggeredSendDefinition")
14 SET @ts_extkey = "86227" /* replace with ID of your Triggered Send */
15 SET @ts_email = RequestParameter("email")
16
17 SetObjectProperty(@tsDef, "CustomerKey", @ts_extkey)
18 SetObjectProperty(@ts, "TriggeredSendDefinition", @tsDef)
19
20 %[%

```

Default

</> Code View

```

%[% IF RequestParameter("submitted") == true THEN /* generate an OPT */ set @num1 = 1000 set @num2 = 9999 set @OTP = random(@num1, @num2) /* send a triggered email containing the opt */ SET @ts = CreateObject("TriggeredSend") SET @tsDef = CreateObject("TriggeredSendDefinition") SET @ts_extkey = "86227" /* replace with ID of your Triggered Send */ SET @ts_email = RequestParameter("email") SetObjectProperty(@tsDef, "CustomerKey", @ts_extkey) SetObjectProperty(@ts, "TriggeredSendDefinition", @tsDef) SET @ts_sub = CreateObject("Subscriber") SetObjectProperty(@ts_sub, "EmailAddress", @ts_email) SetObjectProperty(@ts_sub, "SubscriberKey", @ts_email) SET @attr = CreateObject("Attribute") SetObjectProperty(@attr, "Name", "OTP") SetObjectProperty(@attr, "Value", @OTP) AddObjectArrayItem(@ts_sub, "Attributes", @attr) AddObjectArrayItem(@ts, "Subscribers", @ts_sub) SET @ts_statusCode = InvokeCreate(@ts, @ts_statusMsg, @errorCode) /* display a form where subscriber submits otp */ %[%

```

OTP:

Save Block
Done Editing

**Step 5:** Click on the page URL to access the page

Here, we just have to click on the page URL (<https://mclxdpbrg2n9j1y8ftm46zszshqy.pub.sfmc-content.com/sqya11jpyii>) to access the page and test the functionality. Entered Emails will also be stored in the Triggered Sens Data Extension we have created.

Email

Submit

OTP:

Submit