LEARNING Twilio

#twilio

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About

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Chapter 1: Getting started with Twilio

Remarks

Twilio provides a platform for communication via IP messaging (chat), video, voice, SMS and MMS. This simple example demonstrates how to send an SMS text message using the Twilio module for Node.js.

Versions

Version	Release Date
1.0.0	2016-04-12

Examples

Sending an SMS Message from a US Number

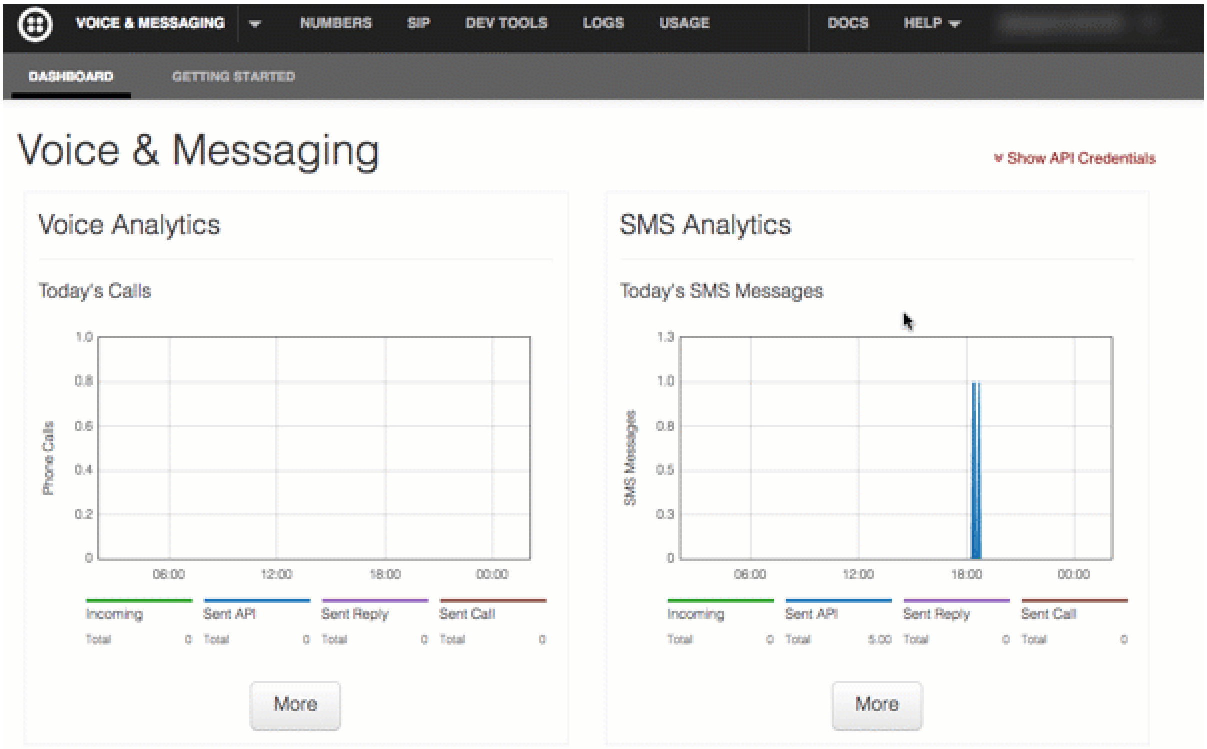
This is how to send an SMS text message from a US number using Twilio's Node.js SDK.

First you need to install the Node.js client using:

```
npm install twilio
```

Then, you have to create an account on their website.

Once you have an account, you'll need the account SID and auth token that you can find on the online dashboard.



In the code example below, replace `[Account SID]` and `[Auth Token]` with the ones from your account.

```
// Twilio Credentials
var accountSid = '[Account SID]';
var authToken = '[Auth Token]';

//require the Twilio module and create a REST client
var client = require('twilio')(accountSid, authToken);

client.messages.create({
    to: "+16518675309", // Any number Twilio can deliver to
    from: "+14158141829", // A number you bought from Twilio and can use for outbound
communication
    body: "Hey Jenny, thanks for the pull request, will merge it right away."
}, function(err, message) {
    console.log(message.sid);
});
```

Sending an SMS Message using Promises

Twilio's Node.JS API natively supports promises, allowing you to use promises when sending SMS messages (this example was taken and adapted directly from Twilio's API Docs).

```
// Create an authenticated Twilio REST API client
var twilio = require('twilio');
var client = new twilio.RestClient('ACCOUNT_SID', 'AUTH_TOKEN');

// A simple example of sending an sms message using promises
var promise = client.makeCall({
    to:'+16515556667777', // a number to call
    from:'+16518889999', // a Twilio number you own
    body: 'Hello, world.' // A URL containing TwiML instructions for the call
});

// You can assign functions to be called, at any time, after the request to
// Twilio has been completed.  The first function is called when the request
// succeeds, the second if there was an error.
promise
.then(function(sms) {
    console.log('Call success! SMS SID: ' + sms.sid);
}, function(error) {
    console.error('Call failed!  Reason: ' + error.message);
});
```

Read Getting started with Twilio online: https://riptutorial.com/twilio/topic/443/getting-started-with-twilio

Chapter 2: How To Receive SMS Messages with Ruby on Rails

Examples

Using the Twilio Gem

Assuming you have a Twilio account and API credentials, add the following to your Gemfile:

```
gem 'twilio-ruby'
```

Alternatively you can `gem install twilio-ruby`.

To have Twilio send an incoming SMS to a particular route in your application, you need to configure the Messaging URL for your phone number. Once that's done, you need to set up a route in `config/routes.rb`:

```
TwilioSample::Application.routes.draw do
  resources :messages
end
```

This creates a set RESTful routes (`GET /messages` to list messages, `POST /messages` to create a message, etc.) that will send requests to the `MessagesController`. With these routes defined, you would set the Messaging URL in the Twilio dashboard to `https://your.site/messages` as an HTTP POST Webhook.

Your controller handles the message:

```
class MessagesController < ApplicationController

  def create
    # First, check to see if this message really came from Twilio
    uri, signature = [request.protocol, request.host_with_port, request.path].join,
request.env['HTTP_X_TWILIO_SIGNATURE']
    validator = Twilio::Util::RequestValidator.new(ENV['TWILIO_AUTH_TOKEN'])

    if validator.validate(uri, request.request_parameters, signature)
      # The params hash has the data from the Twilio payload
      Rails.logger.info "I just got this message from #{params[:From]}: #{params[:Body]}"

      # Send back a response that Twilio can handle
      render xml: { Sms: "Thanks, I got your message" }.to_xml(root: 'Response')

    else
      # This request didn't come from Twilio, so return a "Forbidden" response
      head(403)
    end

  end
```

```
end
```

Read How To Receive SMS Messages with Ruby on Rails online: https://riptutorial.com/twilio/topic/3673/how-to-receive-sms-messages-with-ruby-on-rails

Chapter 3: How To Send an SMS with Ruby

Examples

Using the Twilio Gem

This assumes you have a twilio account and have purchased/reserved a phone number...

If you are using bundler add the following line to your Gemfile to include `twilio-ruby` in your project:

```
gem 'twilio-ruby'
```

otherwise enter `gem install twilio-ruby` on the command line. You might need `sudo` if you're using system Ruby and not ruby-env etc.

and the code

```
# Instantiate a Twilio REST client with your account SID and auth token,
# which can be found on your dashboard.

client = Twilio::REST::Client.new("your_account_sid", "your_auth_token")

client.messages.create(from: "+15556667777", to: "+15558883333", body: "Hello, world!")
```

Read How To Send an SMS with Ruby online: https://riptutorial.com/twilio/topic/1760/how-to-send-an-sms-with-ruby

Chapter 4: Send an SMS message using Bash and cURL

Syntax

- https://api.twilio.com/{Api version}/Accounts/{AccountSid}/Messages.json {body}

Parameters

Parameter	Details
{Api version}	Versioning date of the API. e.g. 2010-04-01
{Account Sid}	The Account Sid. Starts AC
{body}	URL encoded body including From, To, Body and MessagingServiceSid

Examples

Send a single message using an alphanumeric sender id

An HTTP POST request is sent to a URL of the format: "https://api.twilio.com/2xxx-xx-xx/Accounts/[AccountSid]/Messages.json

The example below uses a alphanumeric string as the sender. At the time of writing a sender ID can only be added through a service request Twlio.

Example Request:

```
To="+447111111111" ;
From="Wxxxxxxxxx" ;
MessagingServiceSid="MGxxxxxxxxxxxxxxxxxxxxxx" ;
Body="Test Message" ;
AccountSid="ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx" ;
AuthToken="[Auth Token]" ;
CMD="curl --request POST \"https://api.twilio.com/2010-04-
01/Accounts/${AccountSid?}/Messages.json\" " ;
CMD="${CMD?}--data-urlencode \"From=${From?}\" " ;
CMD="${CMD?}--data-urlencode \"To=${To?}\" " ;
CMD="${CMD?}--data-urlencode \"MessagingServiceSid=${MessagingServiceSid?}\" " ;
CMD="${CMD?}--data-urlencode \"Body=${Body?}\" " ;
CMD="${CMD?}-u \"${AccountSid?}:${AuthToken?}\"" ;
echo "${CMD?}" ;
eval "${CMD?}" ;
```

Example Response (JSON, formatted):

```
{
   "sid":"SMxxxxxxxxxxxxx",
   "date_created":"Tue, 26 Jul 2016 12:50:07 +0000",
   "date_updated":"Tue, 26 Jul 2016 12:50:07 +0000",
   "date_sent":null,
   "account_sid":"ACxxxxxxxxxx",
   "to":"+447111111111",
   "from":"Wxxxxxxxxx",
   "messaging_service_sid":"MGxxxxxxxxxxx",
   "body":"Test Message",
   "status":"accepted",
   "num_segments":"0",
   "num_media":"0",
   "direction":"outbound-api",
   "api_version":"2010-04-01",
   "price":null,
   "price_unit":null,
   "error_code":null,
   "error_message":null,
   "uri":"/2010-04-01/Accounts/ACxxxxxxxxxxxx/Messages/SMxxxxxxxxxxx.json",
   "subresource_uris":{
      "media":"/2010-04-01/Accounts/ACxxxxxxxxx/Messages/SMxxxxxxxxxxxx/Media.json"
   }
}
```

Read Send an SMS message using Bash and cURL online: https://riptutorial.com/twilio/topic/4237/send-an-sms-message-using-bash-and-curl

Chapter 5: Send messages in Python

Syntax

- class twilio.rest.resources.Messages(*args, **kwargs)

Parameters

Parameter	Details
to (str)	The destination phone number.
from_ (str)	The phone number sending this message (must be a verified Twilio number)
body (str)	The message you want to send, limited to 160 characters.
status_callback	A URL that Twilio will POST to when your message is processed.
application_sid (str)	The 34 character sid of the application Twilio should use to handle this phone call.

Remarks

Twilio will send SMS messages for long codes (in the US, a regular ten digit number) at a rate of one message per second. For additional throughput, you can use pools of numbers with Copilot or apply for a shortcode, which can send 30 messages or more per second.

Examples

Sending MMS

You can add an image to your message using the parameter `media_url`.

```
# Download the twilio-python library from http://twilio.com/docs/libraries
from twilio.rest import TwilioRestClient

# Find these values at https://twilio.com/user/account
account_sid = "ACXXXXXXXXXXXXXXXXX"
auth_token = "YYYYYYYYYYYYYYYYYY"
client = TwilioRestClient(account_sid, auth_token)
message = client.messages.create(
    to="+12316851234",
    from_="TWILIO_NUMBER",
    body="Hello there, StackOverflow!",
    media_url=[
        'https://demo.twilio.com/owl.png',
        'https://demo.twilio.com/logo.png'])
```

Sending SMS

To send your first SMS with Twilio and Python you'll just need the Twilio-Python helper library to get started.

```
# Download the twilio-python library from http://twilio.com/docs/libraries
from twilio.rest import TwilioRestClient

# Find these values at https://twilio.com/user/account
account_sid = "ACXXXXXXXXXXXXXXXXX"
auth_token = "YYYYYYYYYYYYYYYYYY"
client = TwilioRestClient(account_sid, auth_token)

message = client.messages.create(to="+12316851234", from_="TWILIO_NUMBER",
                                 body="Hello there, StackOverflow!")
```

Sending messages and MMS through Twilio

Twilio help build apps that communicate with everyone in the world. Voice & Video, Messaging and Authentication APIs for every application.

You can get an API key for free.

To send a message through Twilio, your application needs to make an HTTP POST request to Twilio with the following things:

1. The phone number you want to send the message to.
2. Twilio number from which you’re attempting to send the message. (Only Twilio message-enabled phone numbers will work)
3. The body of the message.

To send an SMS, make an HTTP POST request to the Messages resource.

```
    POST https://api.twilio.com/20xx-xx-xx/Accounts/xxxxxxx/Messages
```

Below is an example code to show how sending messeges with Twilio API will work.

```
# Download the twilio-python library from http://twilio.com/docs/libraries
from twilio.rest import TwilioRestClient

# Find these values at https://twilio.com/user/account
account_sid = "ACXXXXXXXXXXXXXXXXX"
auth_token  = "YYYYYYYYYYYYYYYYYY"
client      = TwilioRestClient(account_sid, auth_token)

message = client.messages.create(
    to    = "+12316851234",
    from_ = "+15555555555",
    body  = "Hello there!"
)
```

If the Twilio number supports MMS, then you can send and receive MMS also.

Below is code to send MMS through Twilio API.

```
message = client.messages.create(
    to    = "+12316851234",
    from_ = "+15555555555",
    body  = "Hello there!",
    media_url=[
        'https://demo.twilio.com/owl.png',
        'https://demo.twilio.com/logo.png'
    ])
```

Read Send messages in Python online: https://riptutorial.com/twilio/topic/579/send-messages-in-python

Chapter 6: Sending messages in Node.js

Introduction

Twilio allows you to send and receive text messages with Node.js by using the twilio-node library to make calls. This guide assumes you've already setup an account with Twilio and have your account SID and the authentication token from the Twilio Console.

Parameters

Parameter	Details
to	A valid phone number to receive the message
from	A Twilio number that is assigned to you
body	The body of the text message limited to 1600 characters
StatusCallback	A URL that Twilio posts to when a message status changes
maxPrice	Set the maximum price of a message
validityPeriod	The number of seconds the message will remain in the Twilio queue
provideFeedback	Boolean value, when set to true
mediaUrl	A URL containing a gif, png or jpeg content that will be sent with the message

Remarks

2.0 SDK Deprecation

Twilio has two versions of the twilio-node module, a 2.0 SDK and a 3.0 SDK. It is recommended to use the 3.0 SDK as the 2.0 SDK will be deprecated on the 8/31/2017.

> Deprecation notice: New functionality will only be added to the new library (Node Helper Library 3.x). The old library (2.x) will be officially supported until 8/31/2017. After that day, Twilio will stop providing bug fixes and Support might ask you to upgrade before debugging issues. https://www.twilio.com/docs/libraries/node

Parameter Reference

You can refer to the Twilio REST documents for a more detailed description. Twilio also has a JSdocs which can be used as a reference.

Examples

Sending Your First Message

Installing The Node Module

You can install this module by running the command below in your project directory:

```
npm install twilio
```

Sending Your Message

```
const accountSID = ''; // Obtained from the Twilio Console
const authToken = '';   // Obtained from the Twilio Console

const client = require('twilio')(accountSID, authToken);

client.messages.create({
    to: '',  // Number you want to send to
    from: '', // From a valid Twilio number
    body: 'Hello, from Stack Overflow', // What appears in the text message
})
.then((message) => console.log(message.sid));
```

Read Sending messages in Node.js online: https://riptutorial.com/twilio/topic/9955/sending-messages-in-node-js

Credits

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1	Getting started with Twilio	Adam, cdock, Community, ddoria921, Kevin Whinnery, msmanek, Sven
2	How To Receive SMS Messages with Ruby on Rails	Benjamin Curtis
3	How To Send an SMS with Ruby	derrek, Steve Graham
4	Send an SMS message using Bash and cURL	antonycc
5	Send messages in Python	anthon, Henk Langeveld, Jacob Budin, Megan Speir, Shubham Gupta
6	Sending messages in Node.js	Matt Shirley