

Multi-Factor Authentication

To further enhance the security for Ahsay Backup Software, starting from version 8.3, Twilio has been integrated in Ahsay for providing Multi-Factor Authentication (MFA) to system and backup users. When MFA is enabled to a system or backup user account, the user is required to enter SMS passcode during each login process besides entering the Username and Password.

Configuration of Twilio on AhsayCBS

First of all, you need to create an account on Twilio's platform. After having an account, get a number from Trilio for sending out SMS message.

The screenshot displays the Twilio project dashboard for a trial account. The interface includes a sidebar with navigation links: Dashboard, Billing, Usage, Settings, and Upgrade. The main content area is titled 'My first Twilio project Dashboard'. It features a 'Project Info' section with a 'TRIAL BALANCE' of \$15.50 and a prominent red button labeled 'Get a Trial Number', which is circled in red. Below this, there's a 'Welcome!' message and a 'Welcome!' button. The 'AUTH TOKEN' section shows a 'Show' button. To the right, a section titled 'Here's how your Twilio Trial account works:' lists two bullet points: 'You can send messages and make calls to [verified numbers](#).' and 'Messages and calls include a note about this coming from a "Twilio trial account."'. Below this, a link says 'Learn more about [your trial](#) or [upgrade](#) to remove restrictions.' The bottom section includes a 'PROJECT NAME' field with the value 'My first Twilio proj...' and a 'PROGRAMMING LANGUAGE' field with the value 'PHP'. At the bottom left, there's a 'TWILIOQUEST' banner with the text 'Get started learning how to use Twilio with TwilioQuest, our interactive learning game' and a 'Start Your Adventure' button. At the bottom right, there's a 'Twilio Docs' panel with the text 'Dig into our API reference documentation and quickstarts. You're covered with everything from SDKs in your favorite languages to sample apps for web, iOS, and Android.' and an 'Explore the Docs' button.

twilio

My first Twilio... TRIAL

Dashboard

Billing

Usage

Settings

Upgrade

Docs

Ronnie Chan

Your first Twilio Phone Number

(206) 312-5010

Don't like this one? [Search for a different number](#)

This United States phone number has the following capabilities:

- Voice:** This number can receive incoming calls and make outgoing calls.
- SMS:** This number can send and receive text messages to and from mobile numbers.
- MMS:** This number can send and receive multi media messages to and from mobile numbers.

Welcome!

We've customized your onboarding guide to match what you've told us. To get started, get a trial phone number.

Choose this Number

TwilioQuest

Get started learning how to use Twilio with TwilioQuest, our interactive learning game

Intro Video

Start Your Adventure

Twilio Docs

Dig into our API reference documentation and quickstarts. You're covered with everything from SDKs in your favorite languages to sample apps for web, iOS, and Android.

Explore the Docs

twilio

My first Twilio... TRIAL

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Docs

Ronnie Chan

Congratulations!

Your new Phone Number is **+12063125010**

For help building your Twilio application, check out the resources on the getting started page. Once you've built your application, you can configure this phone number to send and receive calls and messages.

Done

Welcome!

We've customized your onboarding guide to match what you've told us. To get started, get a trial phone number.

TwilioQuest

Get started learning how to use Twilio with TwilioQuest, our interactive learning game

Intro Video

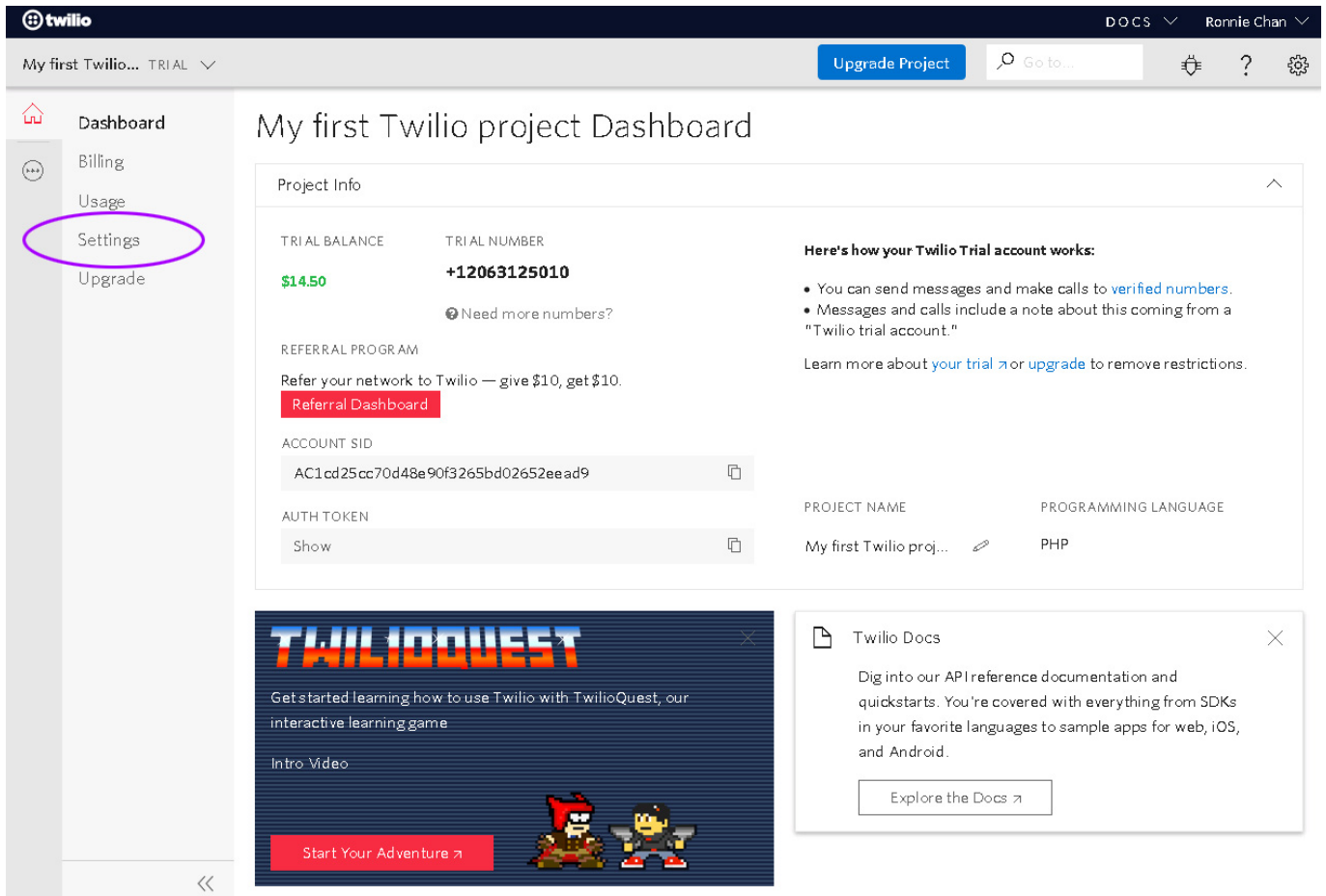
Start Your Adventure

Twilio Docs

Dig into our API reference documentation and quickstarts. You're covered with everything from SDKs in your favorite languages to sample apps for web, iOS, and Android.

Explore the Docs

After getting a phone number for sending SMS, go to Settings.



The screenshot shows the Twilio Project Dashboard for a trial account. The left sidebar contains navigation links: Dashboard, Billing, Usage, Settings (highlighted with a purple circle), and Upgrade. The main content area is titled "My first Twilio project Dashboard". It includes a "Project Info" section with details like Trial Balance (\$14.50), Trial Number (+12063125010), and Account SID. A "Referral Program" section offers a \$10 referral. A "Twilio Quest" banner promotes an interactive learning game. A "Twilio Docs" pop-up is also visible.

My first Twilio project Dashboard

Project Info

TRIAL BALANCE: \$14.50

TRIAL NUMBER: +12063125010

Need more numbers?

REFERRAL PROGRAM

Refer your network to Twilio — give \$10, get \$10.

Referral Dashboard

ACCOUNT SID: AC1cd25cc70d48e90f3265bd02652eead9

AUTH TOKEN: Show

PROJECT NAME: My first Twilio proj...

PROGRAMMING LANGUAGE: PHP

Here's how your Twilio Trial account works:

- You can send messages and make calls to [verified numbers](#).
- Messages and calls include a note about this coming from a "Twilio trial account."

Learn more about [your trial](#) or [upgrade](#) to remove restrictions.

Twilio Quest

Get started learning how to use Twilio with TwilioQuest, our interactive learning game

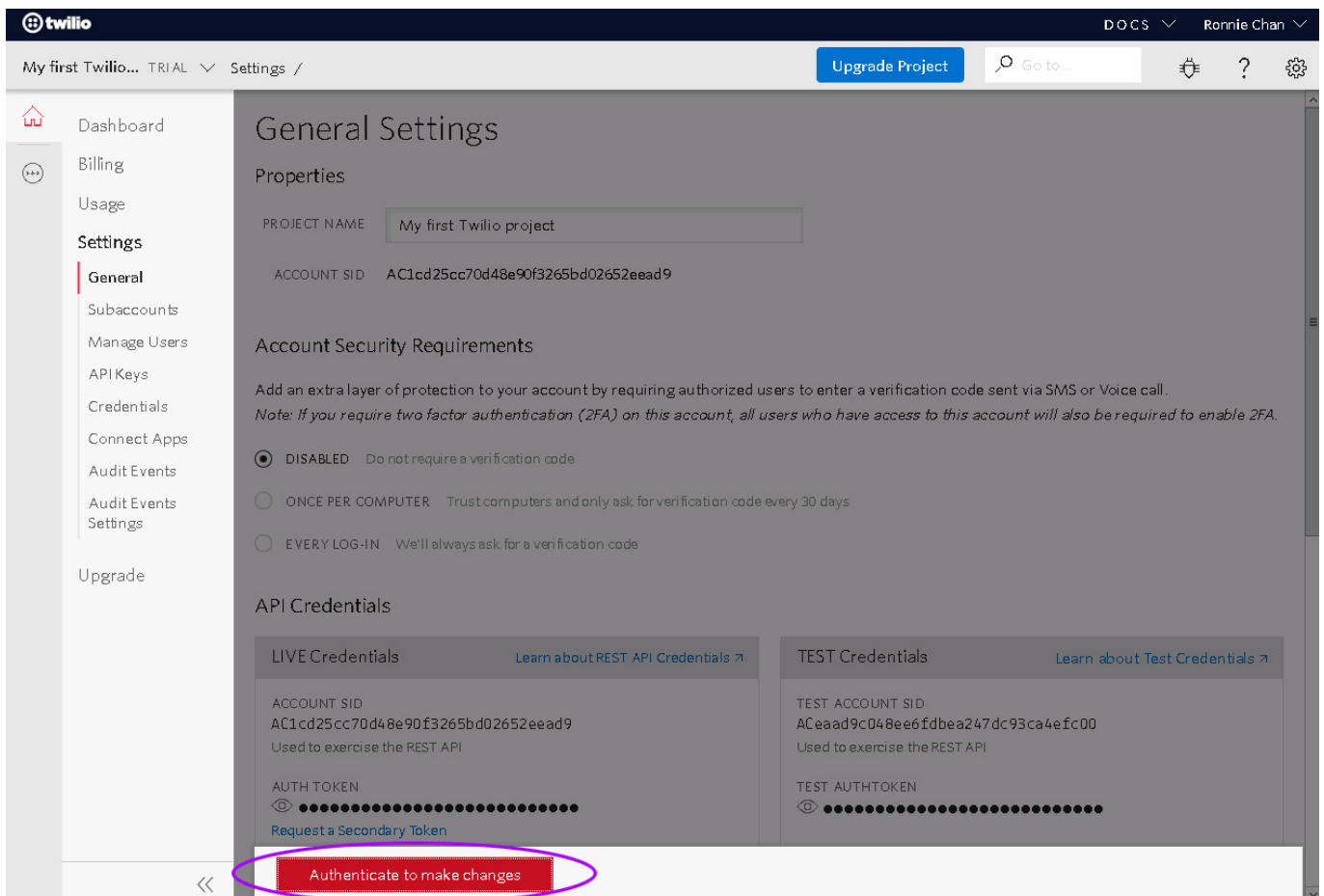
Intro Video

Start Your Adventure

Twilio Docs

Dig into our API reference documentation and quickstarts. You're covered with everything from SDKs in your favorite languages to sample apps for web, iOS, and Android.

Explore the Docs



The screenshot shows the Twilio General Settings page. The left sidebar has "Settings" selected, with "General" highlighted. The main content area is titled "General Settings" and includes sections for "Properties", "Account Security Requirements", and "API Credentials". The "Account Security Requirements" section shows "DISABLED" as the selected option. The "API Credentials" section displays "LIVE Credentials" and "TEST Credentials" with their respective Account SIDs, Auth Tokens, and a "Request a Secondary Token" link. A red button labeled "Authenticate to make changes" is highlighted with a purple circle at the bottom.

General Settings

Properties

PROJECT NAME: My first Twilio project

ACCOUNT SID: AC1cd25cc70d48e90f3265bd02652eead9

Account Security Requirements

Add an extra layer of protection to your account by requiring authorized users to enter a verification code sent via SMS or Voice call.

Note: If you require two factor authentication (2FA) on this account, all users who have access to this account will also be required to enable 2FA.

☒ DISABLED Do not require a verification code

☐ ONCE PER COMPUTER Trust computers and only ask for verification code every 30 days

☐ EVERY LOG-IN We'll always ask for a verification code

API Credentials

LIVE Credentials [Learn about REST API Credentials](#)

ACCOUNT SID: AC1cd25cc70d48e90f3265bd02652eead9

Used to exercise the REST API

AUTH TOKEN: [Redacted]

Request a Secondary Token

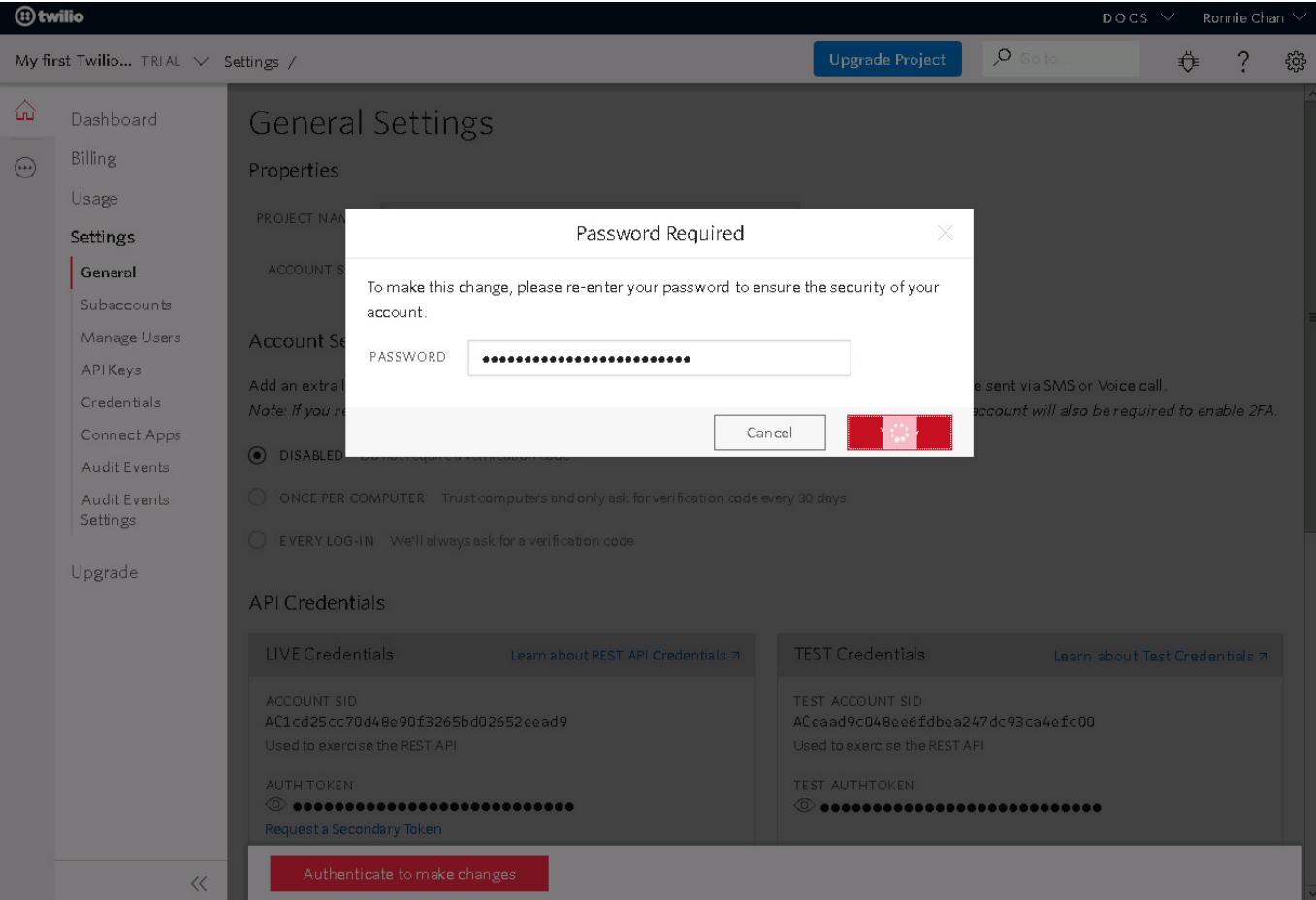
TEST Credentials [Learn about Test Credentials](#)

TEST ACCOUNT SID: ACeaa9c048ee6fdbea247dc93ca4efc00

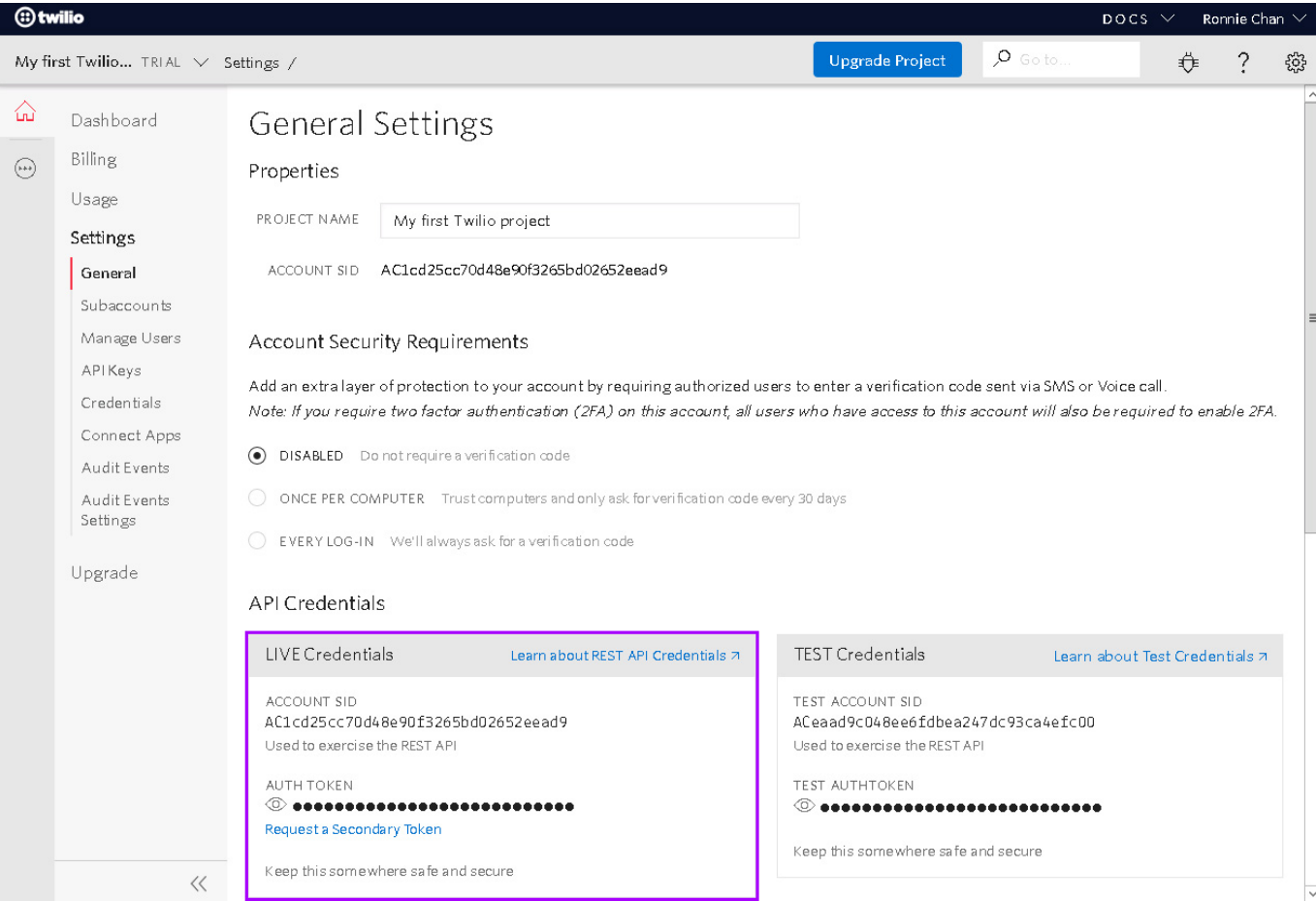
Used to exercise the REST API

TEST AUTHTOKEN: [Redacted]

Authenticate to make changes



Under API Credentials, enter the LIVE Credentials (Account SID and Auth Token) and your Twilio phone number into AhsayCBS > System Settings > Basic > Multi-Factor Authentication (MFA).



General

Email

Predefined Destinations

Administrative Access

Languages

Multi-Factor Authentication (MFA)

Configure the settings for multi-factor authentication (MFA) below

Twilio Credentials Verification

Account SID

AC1cd25cc70d48e90f3265bd02652ead9

Auth Token

.....

Sender

Phone Number

United States, Canada (+1)

2063125010

Test

Passcode length

6

Resend cooldown time

1

Minutes

Expiry time

5

Minutes

Consecutive invalid passcode attempts allowed

5

Times

Consecutive send allowed

5

Times

☒ Allow legacy client to skip SMS authentication

Settings /

API Credentials

LIVE Credentials

[Learn about REST API Credentials ↗](#)

TEST C

ACCOUNT SID

AC1cd25cc70d48e90f3265bd02652ead9

Used to exercise the REST API

AUTH TOKEN

.....

Request a Secondary Token

Keep this somewhere safe and secure

TEST AC

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Used to t

TEST AU

.....

Keep thi

SSL Certificate Validation

Determines if certificate validation is performed on all Twilio originated requests.

☒ ENABLED

Enforces Certificate Validation on webhooks from Twilio to your servers. Twilio

☐ DISABLED

Does not enforce certificate validation on webhooks from Twilio to your serve

only be used during development.

Public Key Client Validation

Public Key Client Validation provides an additional layer of security by validating the or

achieved by sharing a public key with Twilio and then signing each request with the as

Client Validation is an Enterprise feature

Learn more about Enterprise ↗

Click the green Save button.

General

Email

Predefined Destinations

Administrative Access

Languages

Multi-Factor Authentication (MFA)

Configure the settings for multi-factor authentication (MFA) below

Twilio Credentials Verification

Account SID

ACeaa9c048ee6f0bea247dc93ca4efc00

Auth Token

.....

Sender

Phone Number

United States, Canada (+1)

2063125010

Test

Passcode length

6

Resend cooldown time

1

Minutes

Expiry time

5

Minutes

Consecutive invalid passcode attempts allowed

5

Times

Consecutive send allowed

5

Times

☒ Allow legacy client to skip SMS authentication

My first Twilio project Dashboard

Project Info

TRIAL BALANCE

\$14.50

TRIAL NUMBER

+12063125010

[Need more numbers?](#)

Here's h

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Learn m

REFERRAL PROGRAM

Refer your network to Twilio — give \$10, get \$10.

Referral Dashboard

ACCOUNT SID

AC1cd25cc70d48e90f3265bd02652ead9

[Copy](#)

AUTH TOKEN

Show

[Copy](#)

PROJECT

My first

TWILIOQUEST

Get started learning how to use Twilio with TwilioQuest, our

interactive learning game

Intro Video

Start Your Adventure ↗

Enter a phone number for receiving passcode thru SMS sent from Twilio. Then, click the Tick button.

Twilio Credentials Verification

Please enter a valid phone number to receive passcode via SMS to verify Twilio account and add to profile for next login

You will receive a passcode in the SMS message

Hong Kong (+852)

There is no contact email address defined in your account. Please enter an email address for account recovery.



You should be able to receive an SMS like this.

Sent from your Twilio trial account - XYWD-581883 is the verification code for user "system" login
Your backup service provider

Enter the passcode into the following screen, then click the Tick button.

Twilio Credentials Verification

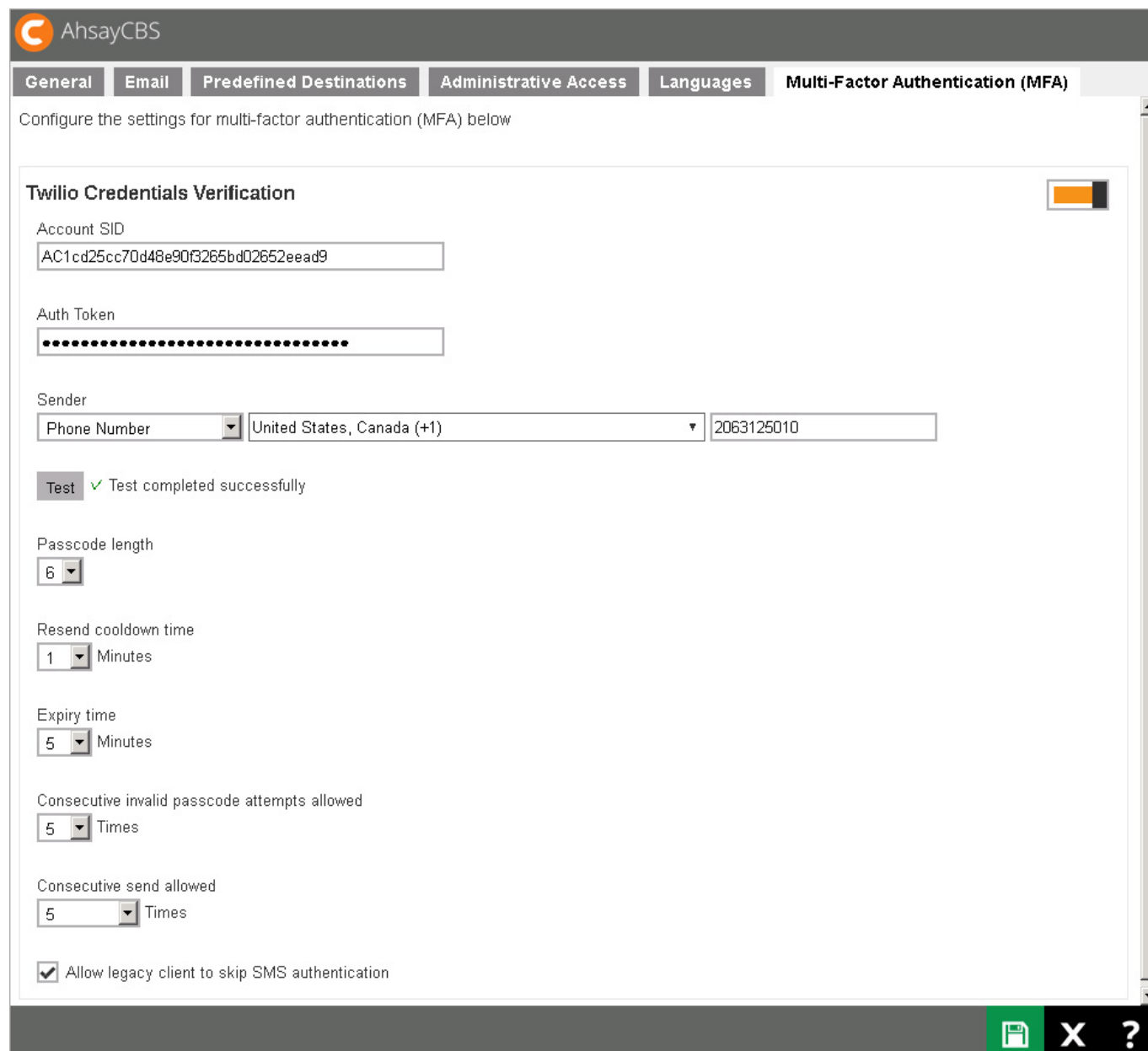
SMS message with a passcode was already sent to the phone number +852-92153799 Please enter the passcode to continue verify Twilio account

XYWD - (00:03:48)

[Resend passcode](#)



You should be able to see this message: “Test completed successfully”, meaning Twilio has been configured successfully on your AhsayCBS.



The screenshot shows the AhsayCBS web interface for configuring Multi-Factor Authentication (MFA). The top navigation bar includes tabs for General, Email, Predefined Destinations, Administrative Access, Languages, and Multi-Factor Authentication (MFA). The MFA tab is active, and the page title is "Twilio Credentials Verification". Below the title, there is a section for configuring Twilio credentials. The "Account SID" field contains the value "AC1cd25cc70d48e90f3265bd02652eead9". The "Auth Token" field is masked with dots. The "Sender" section has a dropdown menu set to "Phone Number", a dropdown menu set to "United States, Canada (+1)", and a text field containing "2063125010". Below the sender information, there is a "Test" button and a green checkmark indicating "Test completed successfully". The "Passcode length" is set to 6. The "Resend cooldown time" is set to 1 minute. The "Expiry time" is set to 5 minutes. The "Consecutive invalid passcode attempts allowed" is set to 5 times. The "Consecutive send allowed" is set to 5 times. At the bottom, there is a checkbox labeled "Allow legacy client to skip SMS authentication" which is checked. The interface has a dark grey header and footer, and a green save button, a red close button, and a help icon are visible in the bottom right corner.

AhsayCBS

General **Email** **Predefined Destinations** **Administrative Access** **Languages** **Multi-Factor Authentication (MFA)**

Configure the settings for multi-factor authentication (MFA) below

Twilio Credentials Verification

Account SID
AC1cd25cc70d48e90f3265bd02652eead9

Auth Token
.....

Sender
Phone Number United States, Canada (+1) 2063125010

Test ✓ Test completed successfully

Passcode length
6

Resend cooldown time
1 Minutes

Expiry time
5 Minutes

Consecutive invalid passcode attempts allowed
5 Times

Consecutive send allowed
5 Times

☒ Allow legacy client to skip SMS authentication

Enable MFA for AhsayOBM / AhsayACB Users

Now, we can enable MFA to selected AhsayOBM / AhsayACB users. By default, all users are with the MFA feature disabled.

 AhsayCBS

Backup User

User Group

Policy Group

Manage your backup users in this section.

Manage Backup User ?










Filter

Client Type

User

Registration Date

User Group

Auto Update

Owner

View

Default

Default Quota

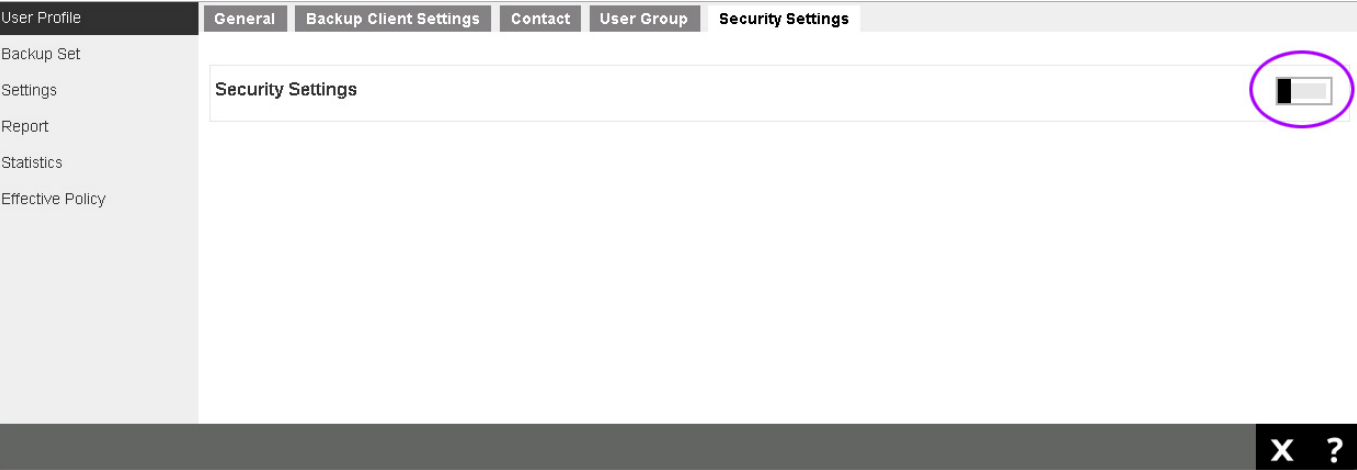
MFA

Enable

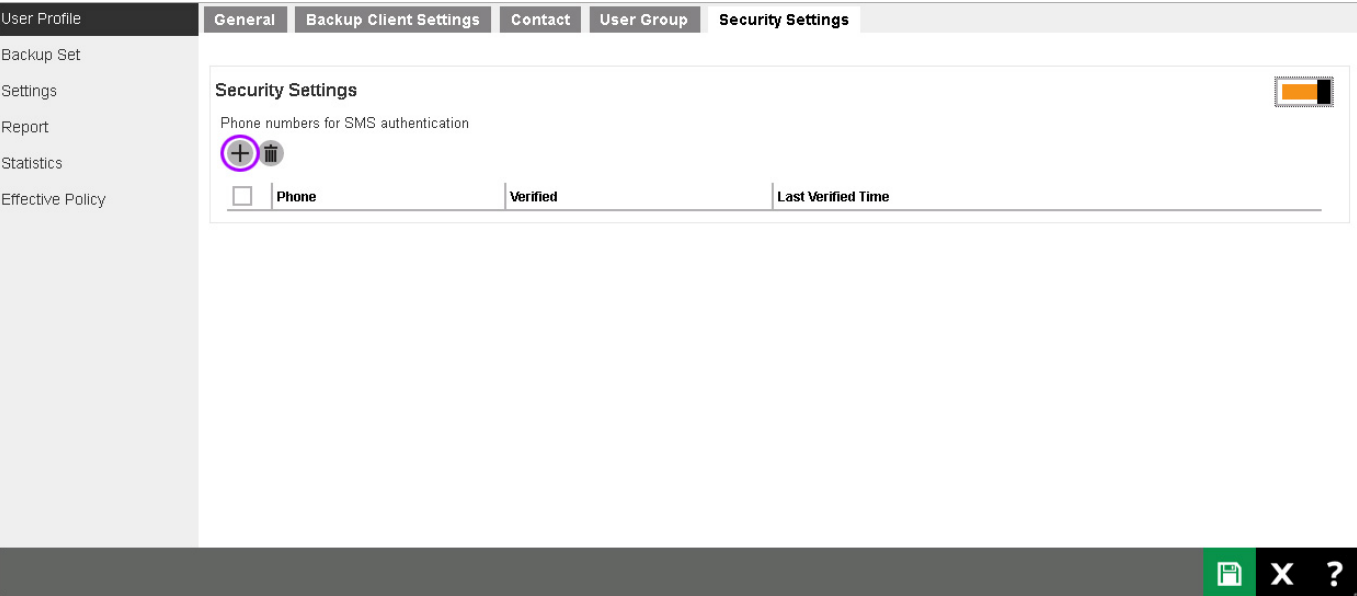
☐	Login Name (Alias)	Owner	Client Version	Add-on Modules	Used / Client Host Limit
☐	 demo.user ()	--	8.1.1.50	              	4 / Unlimited

Printed on 2024/04/25 19:15

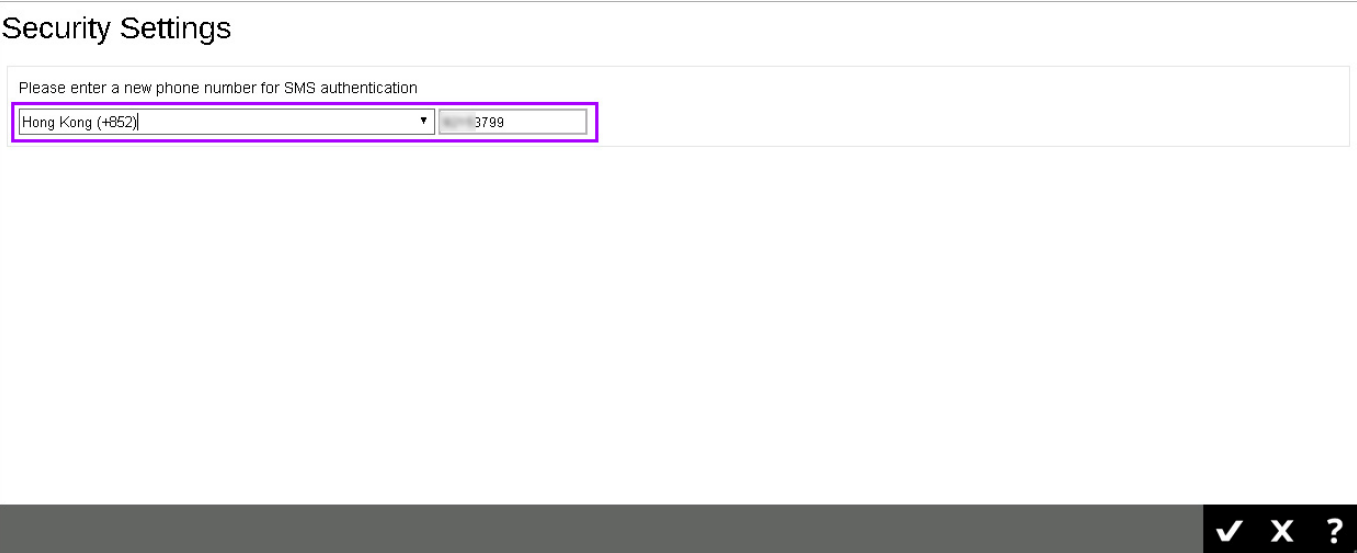
To enable MFA for a user, click into the user account > User Profile > Security Settings tab. Then, enable the Security Settings feature.



Click the Add button.



Enter the user's phone number for receiving passcode thru SMS sent from Twilio.



Right after enabling the feature, the status is not yet verified. Click the green Save button to save enabled MFA setting.

User Profile

Backup Set

Settings

Report

Statistics

Effective Policy

General

Backup Client Settings

Contact

User Group

Security Settings

Security Settings

Phone numbers for SMS authentication

Phone

Verified

Last Verified Time

+852-3799

X

--

X

?

MFA is enabled for the selected user.

AhsayCBS

Backup User

User Group

Policy Group

Manage your backup users in this section.

Manage Backup User

Filter

Client Type

User

Registration Date

User Group

Owner

View

MFA

Login Name (Alias)

Owner

Legacy Client

SMS Authentication

demo.user ()

--

✓

Enabled

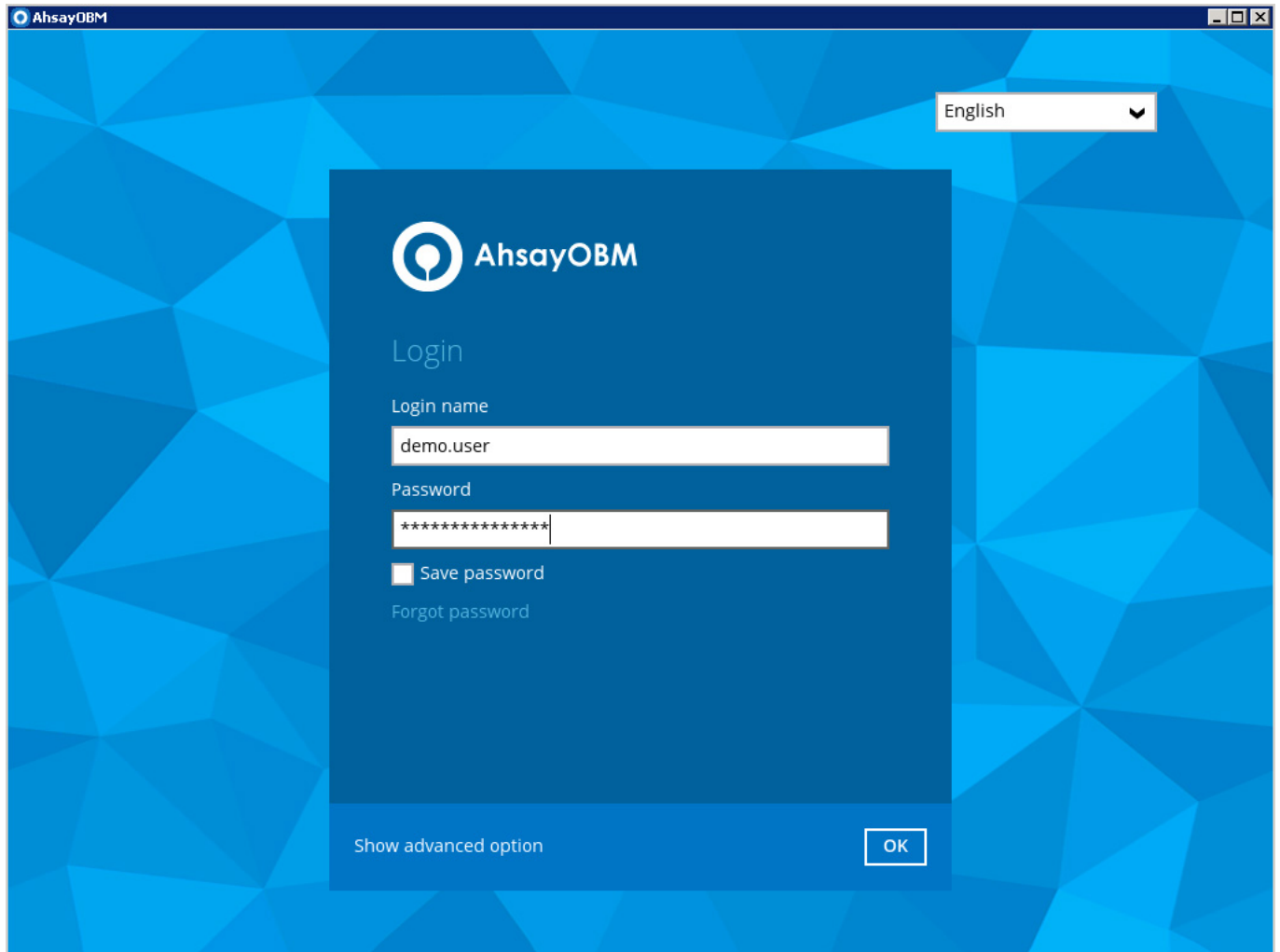
X

?

The user can now open AhsayOBM / AhsayACB's software and enter Login Name and Password as usual.

<https://wiki.ahsay.com/>

Printed on 2024/04/25 19:15



The image shows the AhsayOBM login interface. It features a blue geometric background. At the top left, the window title is 'AhsayOBM'. At the top right, there is a language dropdown menu set to 'English'. In the center, a dark blue login box contains the AhsayOBM logo and the text 'Login'. Below this, there are two input fields: 'Login name' with the value 'demo.user' and 'Password' with masked characters '*****'. A 'Save password' checkbox is present and unchecked. Below the password field is a link for 'Forgot password'. At the bottom of the login box, there is a 'Show advanced option' link and an 'OK' button.

AhsayOBM

English

 AhsayOBM

Login

Login name

demo.user

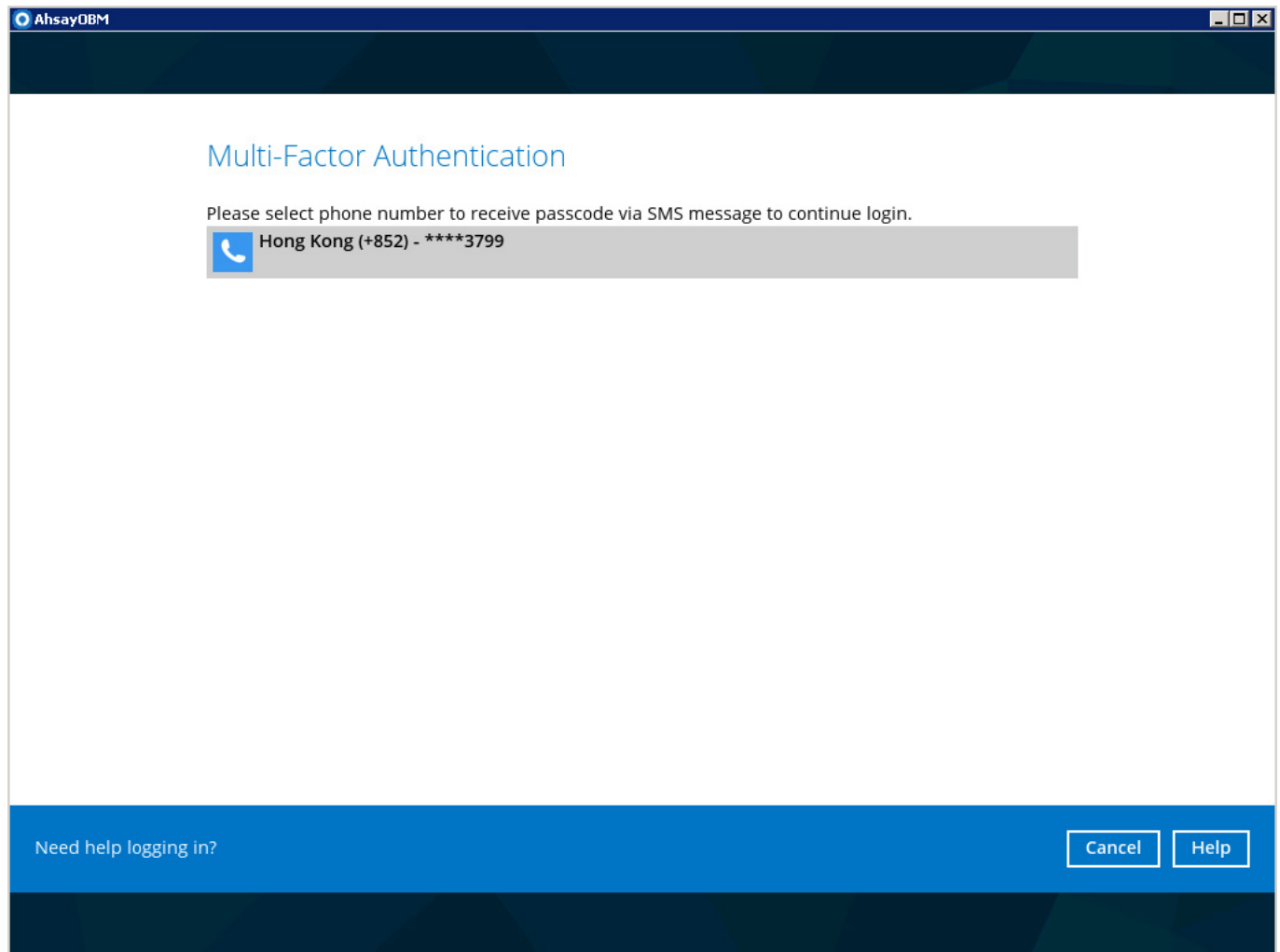
Password

☐ Save password

[Forgot password](#)

[Show advanced option](#)

The user now needs to click on the phone number configured for receiving SMS passcode.



The screenshot shows a web browser window titled "AhsayOBM". The main heading is "Multi-Factor Authentication". Below it, a message states: "Please select phone number to receive passcode via SMS message to continue login." There is a single selection option: a phone icon followed by "Hong Kong (+852) - ****3799". At the bottom of the window, there is a blue bar with the text "Need help logging in?" on the left and two buttons, "Cancel" and "Help", on the right.

Check the phone for the SMS passcode info.

Sent from your Twilio trial account - **GMKU-803275** is the verification code for user **"demo.user"** login
Your backup service provider

Enter the passcode into AhsayOBM's corresponding field.

AhsayDBM

Multi-Factor Authentication

SMS message with a passcode was already sent to the phone number Hong Kong (+852) - ****3799

Please enter the passcode to continue login.

GMKU -

803275

(00:04:04)

Resend passcode

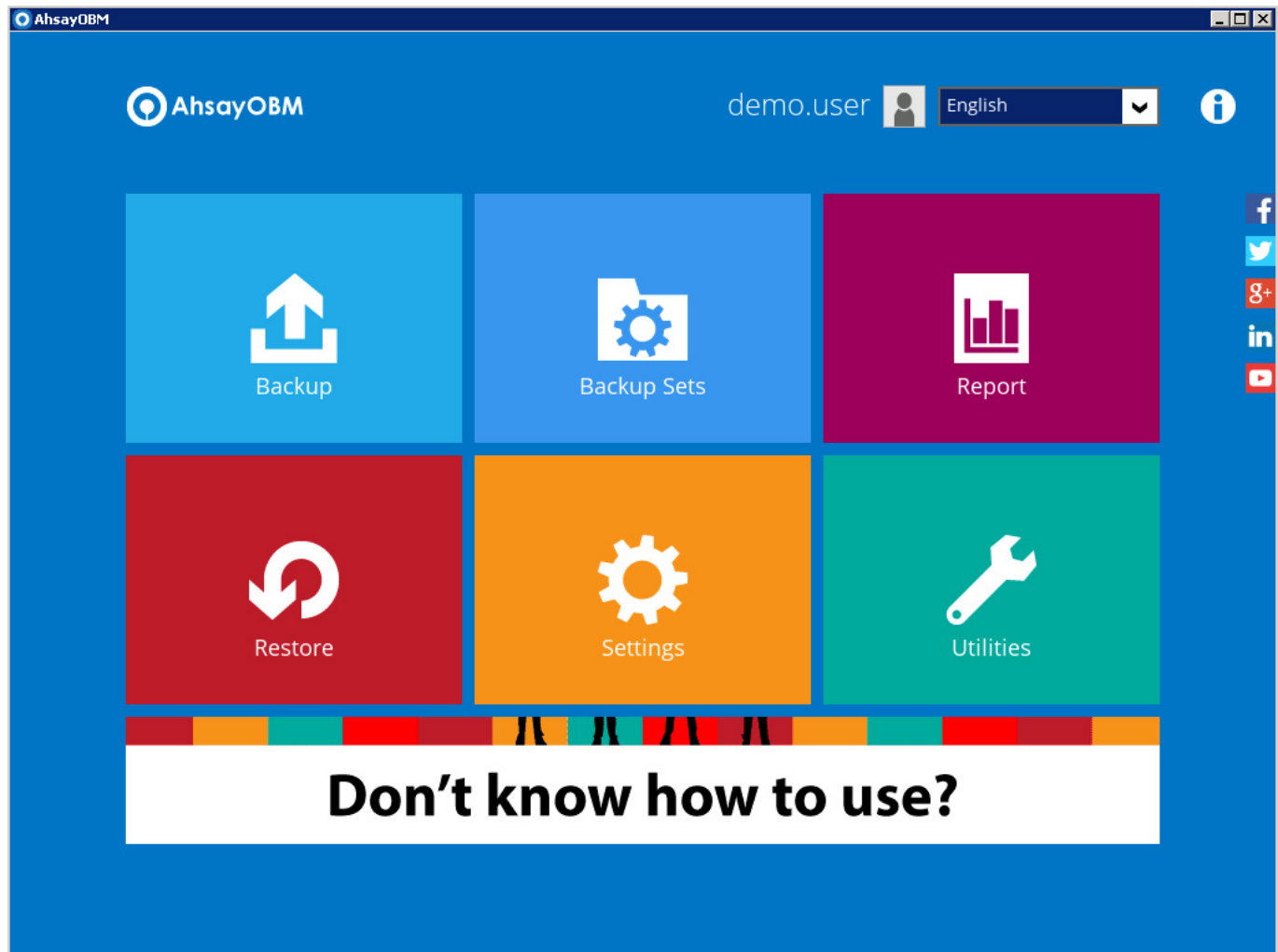
Need help logging in?

Verify

Cancel

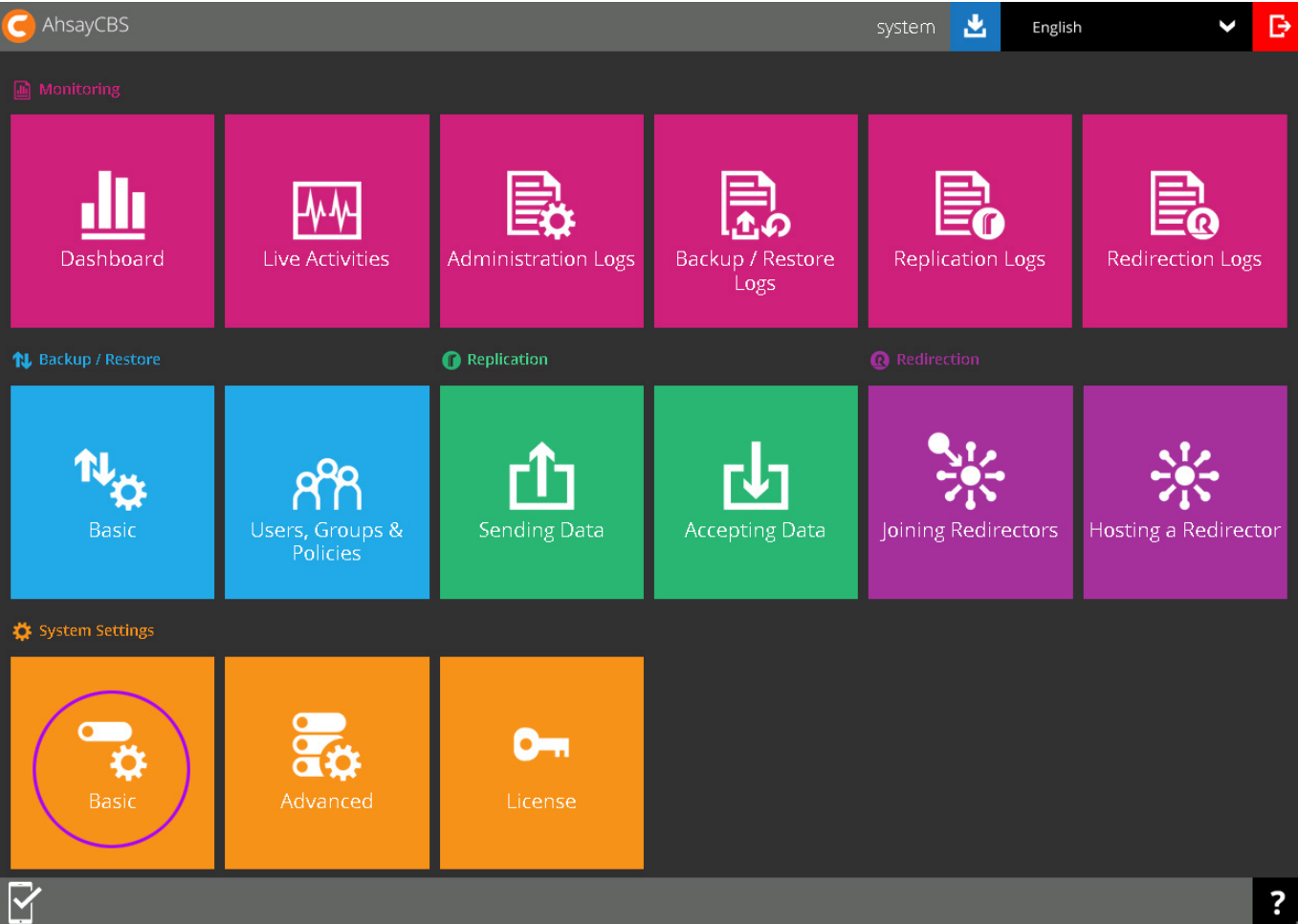
Help

Bingo!

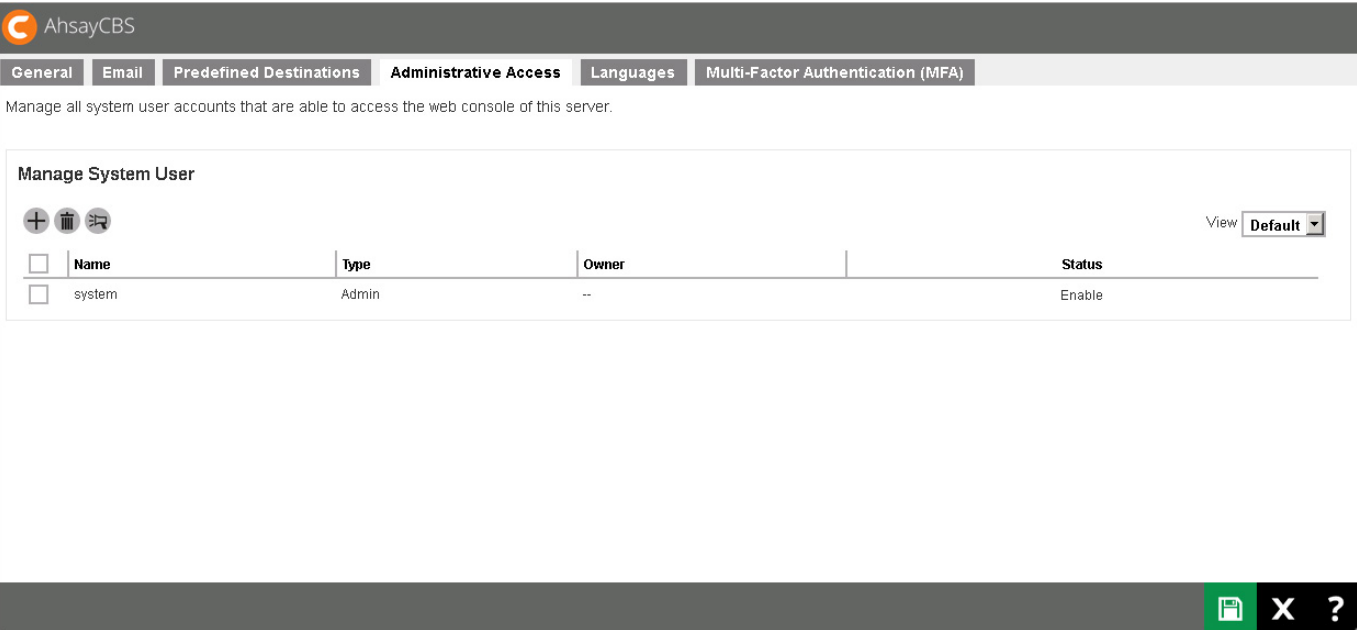


Enable MFA for System Users

You can also enable MFA to selected system user(s) for logging into AhsayCBS web console if needed.



Click into a system user.



Enable the Security Settings.

Profile

Backup User Settings

Rebrand Web Console

Rebrand Clients

Profile

Security Settings

Security Settings

Profile

Backup User Settings

Rebrand Web Console

Rebrand Clients

Profile

Security Settings

Security Settings

Phone numbers for SMS authentication

Phone	Verified	Last Verified Time
☐ +852- 3799	✓	10/23/2019 15:23:14 CST

Save the enabled Security Settings.

AhsayCBS

General

Email

Predefined Destinations

Administrative Access

Languages

Multi-Factor Authentication (MFA)

Manage all system user accounts that are able to access the web console of this server.

Manage System User

View

MFA

Name	Type	Owner	SMS Authentication
☐ system	Admin	--	Enabled

Now whenever the system user login to AhsayCBS, SMS passcode is required.

AhsayCBS

English

Login Name

system

Password

.....

Forgot Password

☒ Remember my login name

LOGIN

Multi-Factor Authentication

Please select phone number to receive passcode via SMS message to continue login.

Hong Kong (+852) - ****3799

Need help logging in?

X

?

Multi-Factor Authentication

SMS message with a passcode was already sent to the phone number +852-****3799 Please enter the passcode to continue login.

GIBB - (00:04:41)

[Resend passcode](#)

✓ X ?

 AhsayCBS

system  English  

 Monitoring


Dashboard


Live Activities


Administration Logs


Backup / Restore Logs


Replication Logs


Redirection Logs

 Backup / Restore

 Replication

 Redirection


Basic


Users, Groups & Policies


Sending Data


Accepting Data


Joining Redirectors


Hosting a Redirector

 System Settings


Basic


Advanced


License

Documentation

Read the corresponding section in this [AhsayCBS Administrator Guide](#) for more details of this feature.

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<https://wiki.ahsay.com/> - **Ahsay Wiki**

Permanent link:

<https://wiki.ahsay.com/doku.php?id=public:mfa&rev=1571882463>

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