HYPERSECU®

Using HyperOTP™ Edge with Amazon Web Services

2/15/2019

HSTE-NB0044-RV 1.0

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Introduction

This document will demonstrate how to register and use your HyperOTP™ Edge one-time password card with a Amazon Web Services (AWS) account. We also support using HyperFIDO™ U2F security keys with AWS. To learn how to register HyperFIDO™ with AWS, see our guide *Using HyperFIDO with Amazon Web Services*.

NOTE: This document is up to date with AWS account procedures on the date of publication. However, AWS may make changes to their procedures and services at any time.

Requirements

Before you register your HyperOTP token, you will need:

- A HyperOTP™ Edge card
- One of the following:
    - A native NFC-compatible Android device
    - Android device with a connected Bluetooth NFC reader
    - A Windows computer with a connected USB NFC reader
- One of the following:
    - Edge Programmer for Android (for Android devices with native NFC)
    - Edge Programmer BLE for Android (for Android devices using a connected Bluetooth NFC reader)
    - Edge Programmer for Windows
- A valid account with Amazon Web Services

Registering Your HyperOTP™ Edge

Before registering the HyperOTP Edge, make sure you have the Edge Programmer app installed on your mobile device or your Windows computer. You can download Edge Programmer for Android from the Google Play Store or Edge Programmer for Windows at hypersecu.com/support/downloads.

IMPORTANT: For mobile Android devices, use **Edge Programmer** if your device has native NFC capabilities and **Edge Programmer BLE** if you are using an external Bluetooth NFC reader with your device. If you are using Edge Programmer for Windows, you must have a USB NFC reader connected.

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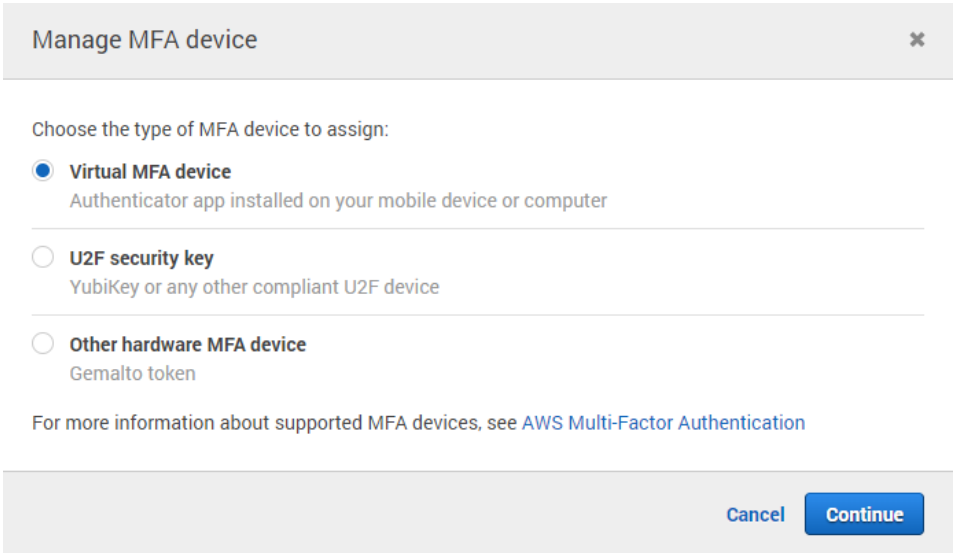
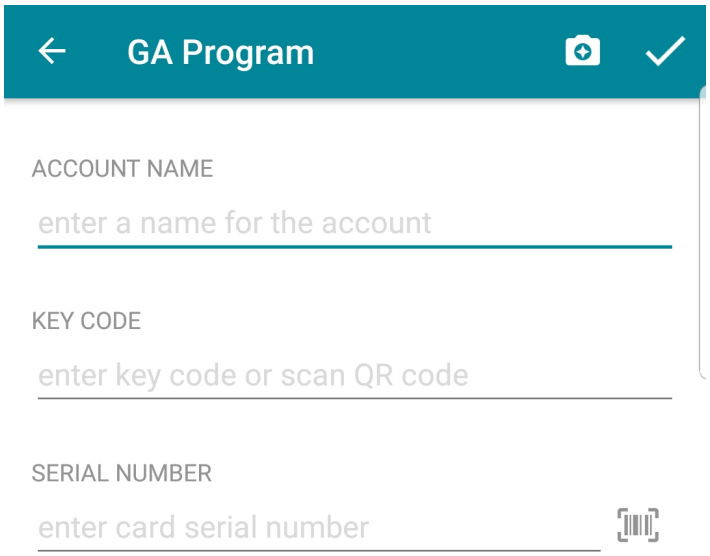
1. Sign in to your AWS console and, under your profile menu, navigate to **My Security Credentials**.
2. Under the Multi-factor Authentication (MFA) section, click **Assign MFA device**.

3. Choose **A virtual MFA device** and click **Continue**.

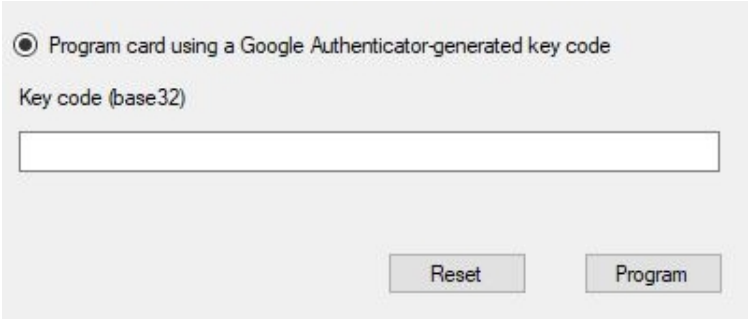


4. Run the Edge Programmer on either your mobile device or on your Windows computer and select one of the following options below:
    - **For Edge Programmer for Android**:
        a. Choose **GA Program** and enter a name for the account and the serial number on the back of the Edge card you are programming.
        b. Tap the camera icon in the Edge Programmer app and scan the QR code provided by AWS, or click **Show secret key for manual configuration** and enter it manually.



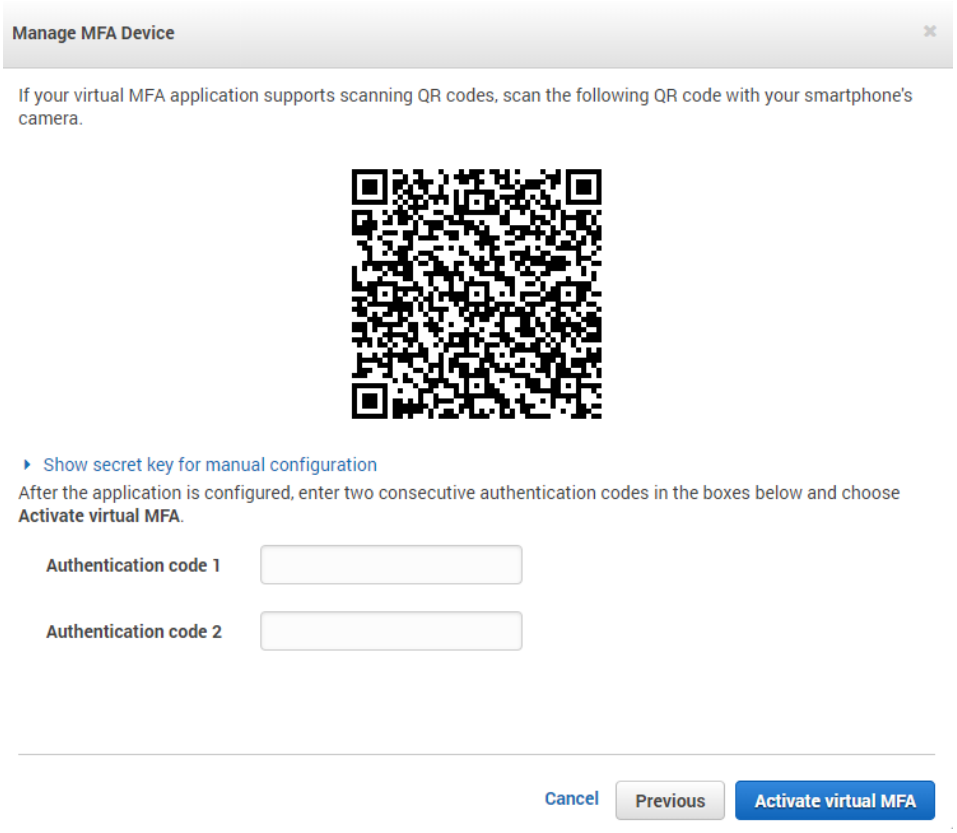
        c. Make sure the Edge card is turned on, then touch the card to your phone or the NFC reader and tap the ✓ icon to program the card.

    - **For Edge Programmer for Windows**:
        a. Make sure the Edge card is turned on and touching the NFC reader, then click **Connect**.
        b. Choose **Program card using a Google Authenticator-generated key code.**
        c. Click **Show secret key for manual configuration** under the QR code provided by AWS and enter the key code into the **Key code (base 32)** field.



        d. Click **Program** to program the card.

5. Once the card is successfully programmed, turn on the card and enter the authentication codes in succession as instructed, then click **Activate virtual MFA** to complete registration.



Signing In To AWS

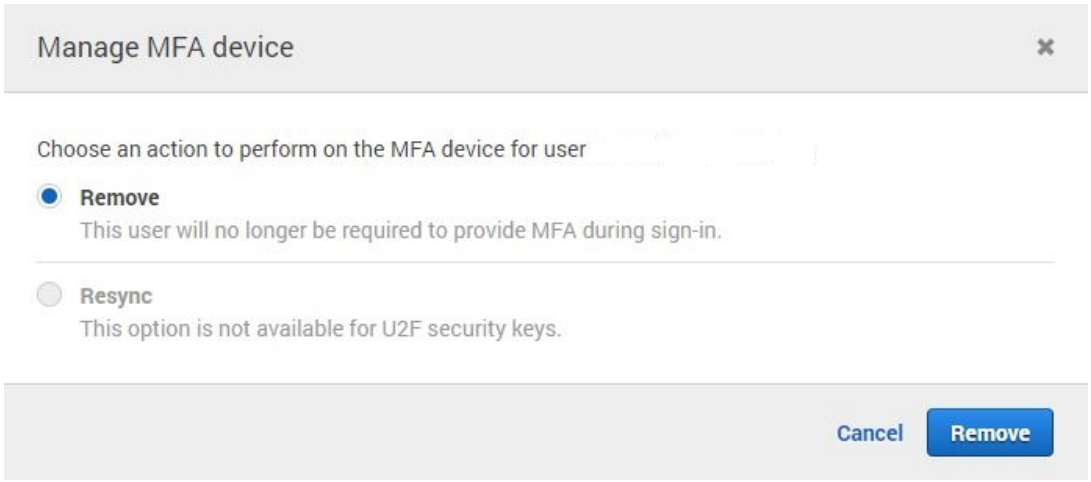
1. Enter your username and password and click **Sign In**.
2. Turn on the Edge card and enter the 6 digit code into the **MFA Code** field.

3. Click **Submit** to finish signing in.

Registering a New Edge Card

AWS does not allow for the registration of more than one MFA device at the same time. To register a new card or to register a different MFA device such as FIDO U2F, you must first remove the existing device.

1. Sign in to your AWS console and, under your profile menu, navigate to **My Security Credentials**.
2. Under the Multi-factor Authentication (MFA) section, click **Manage MFA device**.
3. Choose **Remove** and click **Next** to finish removing the device.



4. Once the device is removed, you can register a new Edge card.

Troubleshooting

Hypersecu Information Systems Inc is not responsible for any errors related to Amazon Web Services and related operations. Please contact the support team for Amazon Web Services in such cases.

Edge Card Won't Authenticate Successfully or is Lost

If you are a root user, you can sign in using an alternative authentication method. Follow the instructions provided on the sign in screen to use an alternative sign in method provided by AWS.

Once you have access to your account, you can remove the MFA device. To do so, see *Registering a New Edge Card* on page 9.

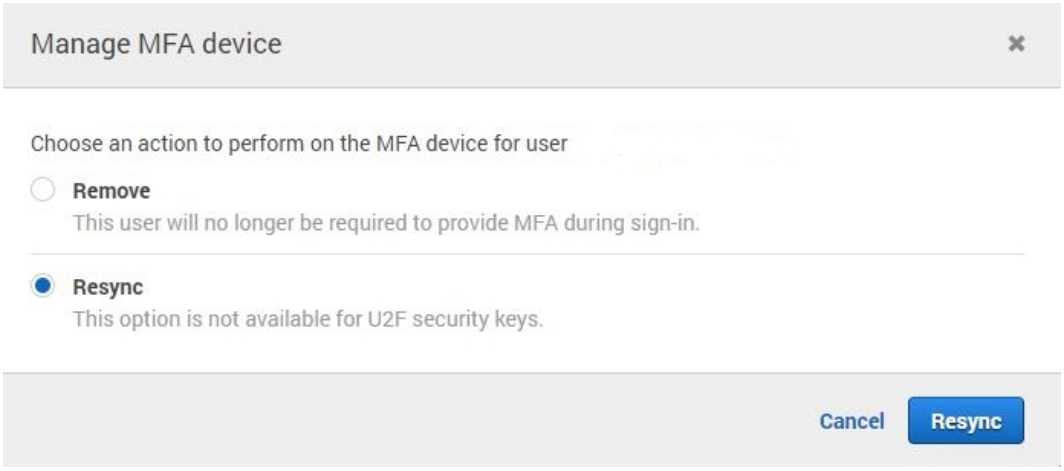
If you have your card and it appears to be operating properly, you can try resynchronizing the card.

IMPORTANT: If you are an IAM user and you are not able to use your Edge card to sign in, you must contact an administrator to deactivate the card and register a new one.

Resynchronizing Your Edge Card

Your card may naturally become out of sync over time. To resync your card:

1. Sign in to your AWS console and, under your profile menu, navigate to **My Security Credentials**.
2. Under the Multi-factor Authentication (MFA) section, click **Manage MFA device**.
3. Select **Resync** and then click **Resync**.



4. Enter two consecutive codes from your Edge card as instructed and click **Resync** to finish resynchronizing your card.