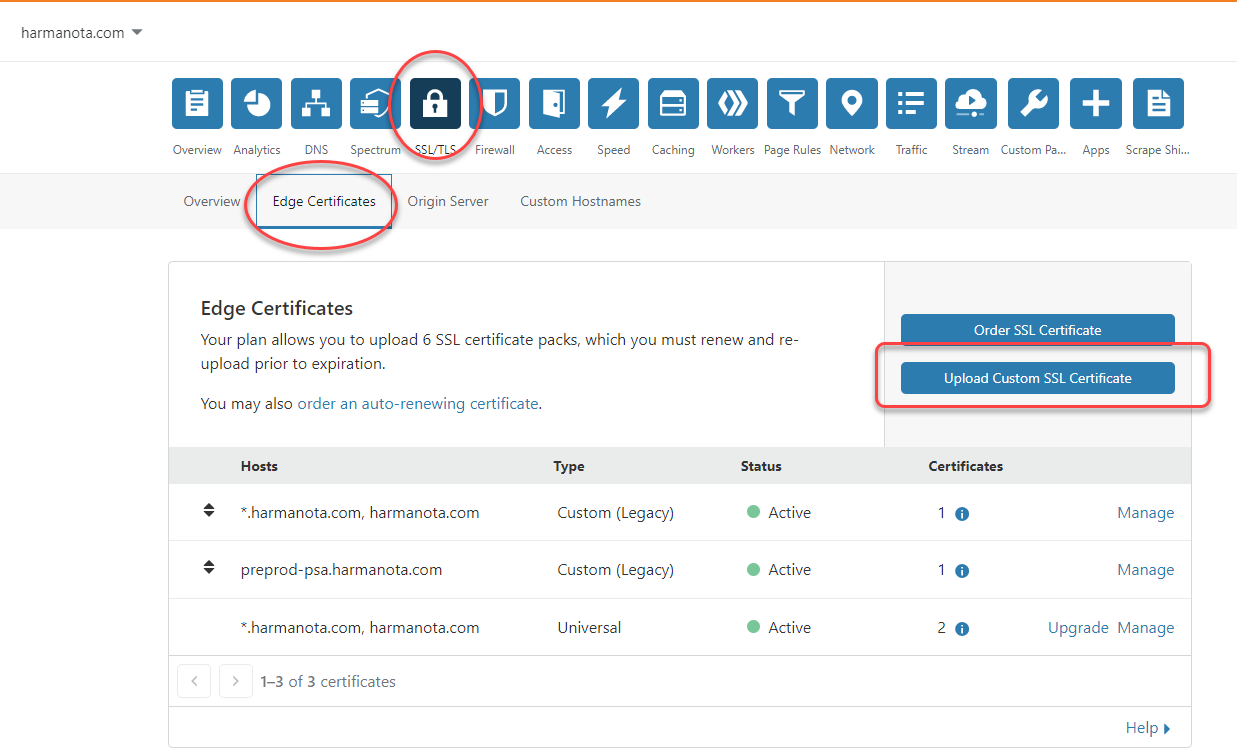
**How to upload Custom Certificate to Cloudflare (Edge Certificate) using API**

**Method 1:**

Best Way (and recommended) is to upload custom certificate to Cloudflare using Web site Portal:



**Method 2:**

In case that we have Extended Key, like in PSA case, we have to use API calls.

In order to use API we need 2 important Parmaters:

* X-Auth-Email
* X-Auth-Key

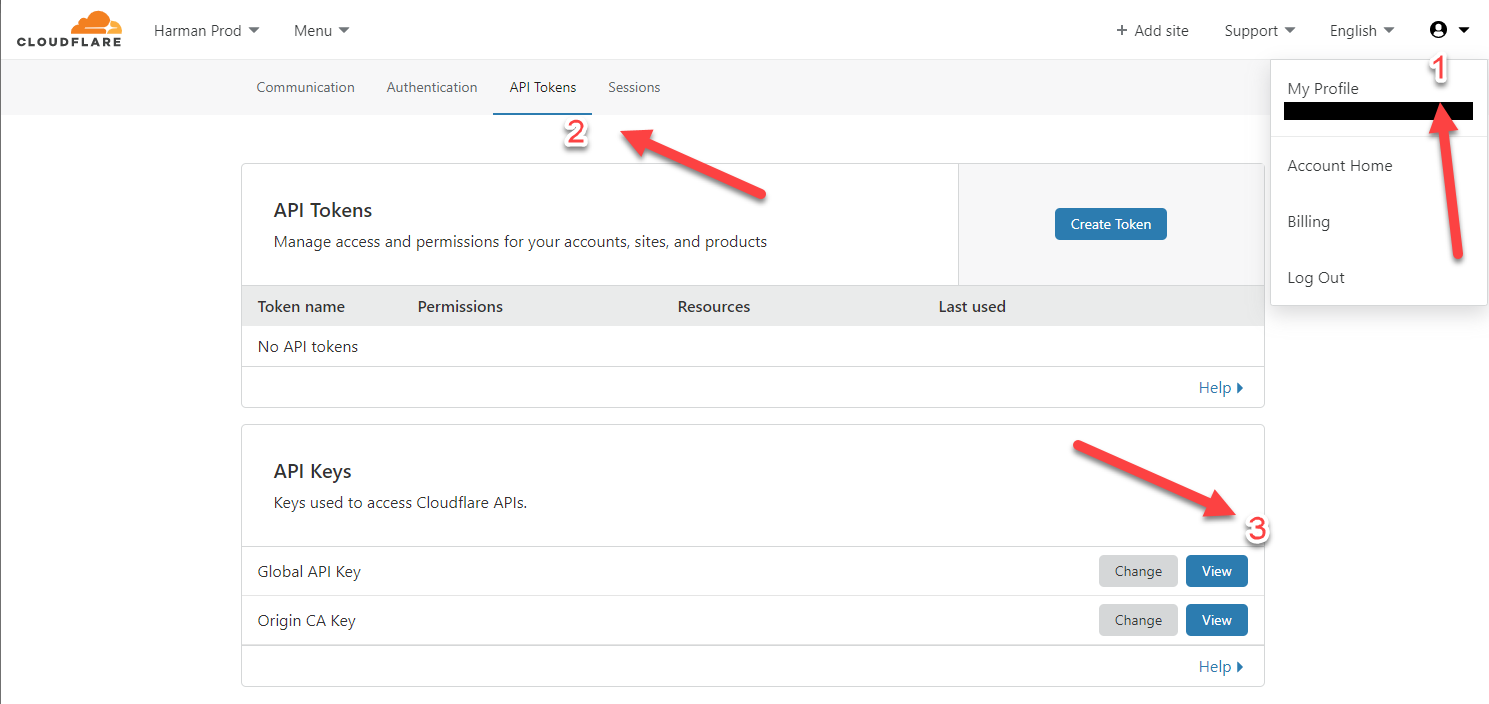
**Step 1:**

X-Auth-Email stand for the username which login to CF Portal. ([USER@harman.com](mailto:USER@harman.com)).

In order to get X-Auth-Key please do as follow:

1. Login to Cloudflare portal, click on “My Profile” on the top right corner.
2. Press on “API Tokens” tab.
3. Click on Global API Key View button.

See Wizard below for above action:



**Step 2:**

Login to Linux VM, follow below steps:

**Prerequisites**:  
***key***: generated local/customer key

**NOTE:** In case of EC key (like PSA), lines between -----BEGIN EC PARAMETERS----- and   
 -----END EC PARAMETERS----- must be removed from key (copy and edit the file).

***combined\_cert:*** received customer certificate (or a combine certificate +intermediate+rootCA )

**linux-vm ~>** MYKEY="$(cat <***key***> |perl -pe 's/\r?\n/\\n/'|sed -e's/..$//')"

**linux-vm ~>** MYCERT="$(cat <***combined\_cert***> |perl -pe 's/\r?\n/\\n/'|sed -e 's/..$//')"

**linux-vm ~>** xauthemail= ([USER@harman.com](mailto:USER@harman.com))

**linux-vm ~>** xauthkey= (Global API Key View button)

**linux-vm ~>** request\_body="{ \"certificate\": \"$MYCERT\", \"private\_key\": \"$MYKEY\", \"force\":true, \"bundle\_method\":\"force\" }"

**linux-vm ~>** curl -s -H GET "https://api.cloudflare.com/client/v4/zones" \

-H "Content-Type:application/json" -H "X-Auth-Key:$xauthkey" -H "X-Auth-Email:$xauthemail" |\

jq [.] | grep -B1 ".com\"," | grep -A1 "\"id\":" | sed 's/--//g' | sed 's/"//g' | sed 's/id/zoneid/g' |\

sed 's/,//g'

output: List of pairs (Zone ID⬄Zone Name) will appear. Choose needed Zone ID and define **zone** variable:

zoneid: 7df85f9b4d44a7014d4f7c5d256b037f

name: harmandev.com

zoneid: 5bb9da7682149ecf7c3adc890ccb9c81

name: harmanota.com

zoneid: 9eed229c2c339348a8b0e5937c10462c

name: jlrmotor.com

zoneid: b1a33609d5d0fe981fa457c9bf33ee3e

name: redbend.com

**linux-vm ~>** zone=<zoneid>

**linux-vm ~>** curl -X POST [https://api.cloudflare.com/client/v4/zones/$zone/custom\_certificates \](https://api.cloudflare.com/client/v4/zones/$zone/custom_certificates%20\)

-H "X-Auth-Email: $xauthemail" -H "X-Auth-Key: $xauthkey" \

-H "Content-Type: application/json" -d "$request\_body"

This command will upload the certificate to Cloudflare.

**Validation**:

Activate certificate should be appears via CF portal as seen in **Method 1**