

How to Create API Keys on Binance?

2018-04-09 11:17

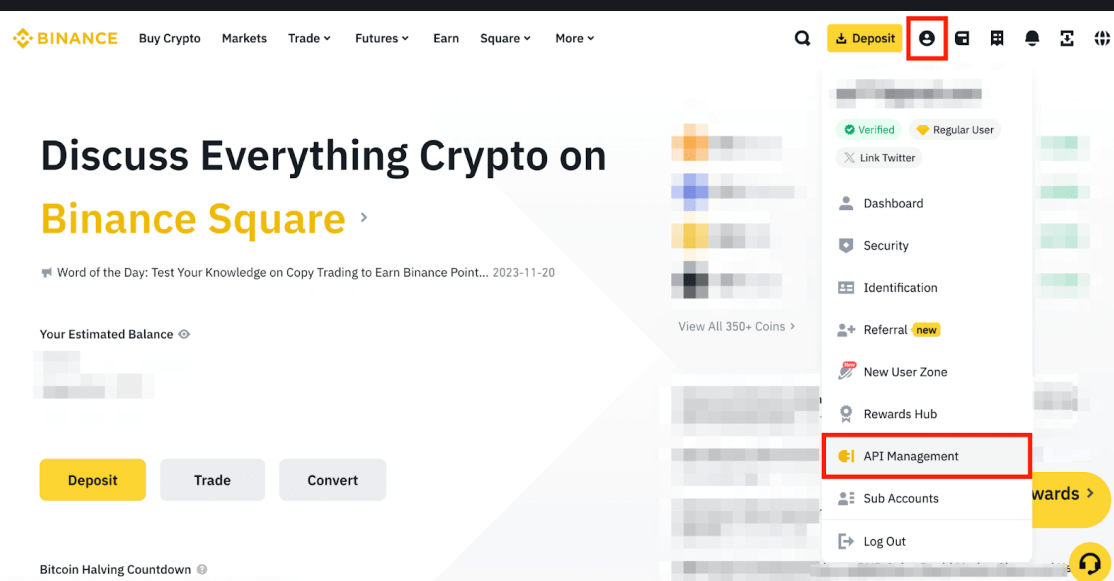
Creating an API allows you to connect to Binance's servers via several programming languages. Data can be pulled from Binance and interacted with in external applications. You can view your wallet and transaction data, make trades, and deposit and withdraw funds in third-party programs.

Please note that before creating an API Key, you need to make a deposit of any amount to your Spot Wallet to activate your account and complete identity verification.

For more details on Binance API, please refer to the [GitHub documentation](#).

How to create your own Binance API Key?

1. Log in to your Binance account and click **[Profile]** - **[API Management]**.



2. Click **[Create API]**.

Please note that before creating an API Key, you need to:

enable **two-factor authentication (2FA)** on your account;

make a deposit of any amount to your Spot Wallet to activate your account; and

complete identity verification.

API Management

1. Each account can create up to 30 API Keys.
 2. Do not disclose your API Key, Secret Key (HMAC) or Private Key (Ed25519, RSA) to anyone to avoid asset losses. You should treat your API Key and your Secret Key (HMAC) or Private Key (Ed25519, RSA) like your passwords.
 3. It is recommended to restrict access to trusted IPs only to increase your account security.
 4. You will not be able to create an API Key if KYC is not completed.

By checking this box, all existing API Key(s) on your master account and sub-accounts will be subject to Default Security Controls.
[Default Security Controls Details](#)

API Key Type	Actions
HMAC	Edit restrictions Delete
HMAC	Edit restrictions Delete
RSA	Edit restrictions Delete
HMAC	Edit restrictions Delete

For more details about the Tax Reporting API, please refer to our guide on [How to Obtain Tax Reporting on Binance & Frequently Asked Questions](#).

3. Select your preferred API Key type.

System-generated API keys use HMAC symmetric encryption. You'll get the API key and the Secret Key.

Self-generated API keys use Ed25519 or RSA asymmetric encryption. You'll receive an API key, but you have to create your own public-private key pair via third-party software and provide the public key to Binance.

For more details on self-generated API keys, please refer to [How to Generate an Ed25519 Key Pair to Send API Requests on Binance](#).

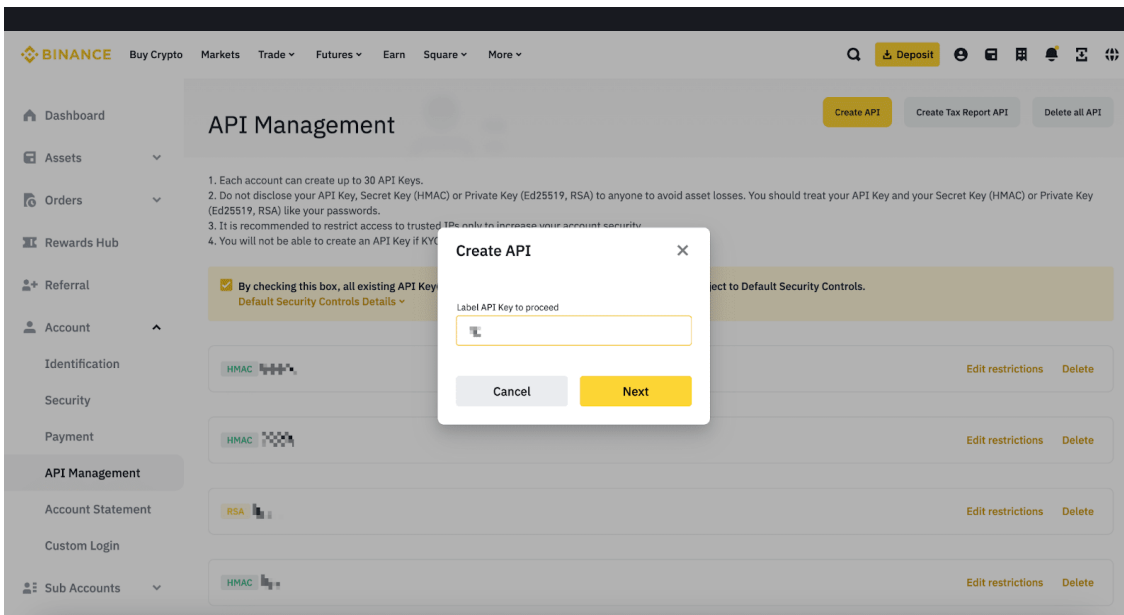
Choose API Key type

System generated
 Works using HMAC symmetric encryption. An API Key and Secret Key will be provided to you. Please keep these keys secure and treat it like your password. Do not share the keys with any third parties.

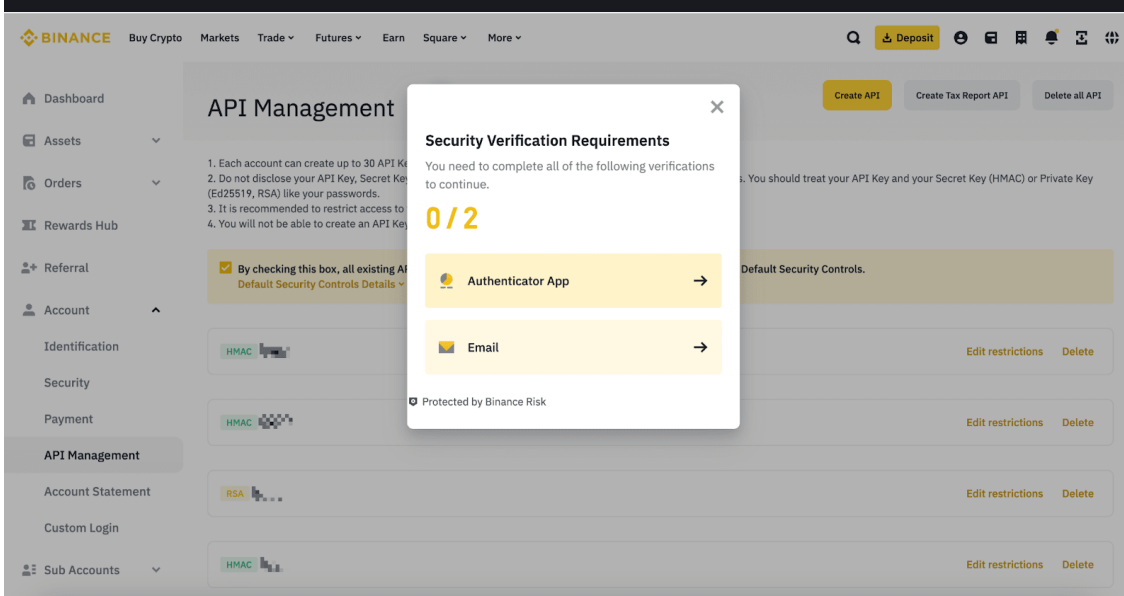
Self-generated
 Works using Ed25519 or RSA asymmetric encryption. An API Key will be provided to you and you will have to create your own public-private key pair via software (for example: [Binance Key Generator](#)), and provide the public key to Binance. Please keep the API Key and Private Key secure and treat it like your password. Do not share the API Key or Private Key with any third parties.

Next

4. Enter a label/name for your API Key.



5. Verify your request with 2FA devices and passkeys.



6. Your API key is now created.

Why can't I enable any permission other than reading?

We strongly recommend against enabling API keys for permissions other than reading, without defining the appropriate IP access restrictions ("Unrestricted-IP-Access API Key(s)"). Unrestricted-IP-Access HMAC API Key(s) won't be able to enable any permission other than reading. If you'd like to enable other permissions, please add IP access restrictions, use self-generated keys (such as Ed25519 or RSA), or disable the default security controls.

The screenshot shows the Binance API Management page. At the top, a yellow warning banner states: "By checking this box, all existing API Key(s) on your master account and sub-accounts will be subject to Default Security Controls." Below this, the API key details for "HMAC test" are displayed. The API Key and Secret Key are shown with a "Copy" button. The API restrictions section includes checkboxes for "Enable Reading" (checked), "Enable Spot & Margin Trading", "Enable Margin Loan, Repay & Transfer", "Enable Futures", "Enable Internal Transfer", "Permits Universal Transfer", "Enable Withdrawals", "Enable European Options", and "Enable Symbol Whitelist". A red box highlights the "IP access restrictions" section, which contains two options: "Unrestricted (Less Secure) This API Key allows access from any IP address. This is not recommended. To protect the safety of your funds, if the IP is unrestricted and any permission other than Reading is enabled, this API key will be deleted." and "Restrict access to trusted IPs only (Recommended)".

Why can't I enable withdrawal permission?

Adding IP access restrictions is mandatory to enable withdrawal permission.

Why can't my API key enable Futures permission?

If the API key is created before you enable your Futures account, or you have activated Portfolio Margin, the API key won't be able to enable Futures permission.

To remain compliant with the latest industry requirements, Binance has updated its API services.

Effective from 2021-08-09 03:00 (UTC), only users who have completed **[Verified Plus]** can create new API keys. Binance has deactivated any existing API Keys created by accounts that have only completed the **[Verified]** verification after 2021-08-23 00:00 (UTC). For more information, please refer to this [announcement](#).

Effective from 2023-01-30 00:00 (UTC), the system-generated API Key's permission can only be set to **[Enable Reading]** if your IP is unrestricted.