

Advanced Trade API Authentication

This guide explains how to authenticate requests to the Advanced Trade REST API endpoints and WebSocket server channels. It assumes that you have already [created API keys](#) on the [Coinbase Developer Platform](#).

Making Requests

CDP API keys are used to generate a JSON Web Token (JWT) for an API. Once you've generated a JWT, set it as a Authorization Bearer header to make an authenticated request.

```
# Example request to get account
curl -H "Authorization: Bearer $JWT" 'https://api.coinbase.com/api/v3/brokerage/
accounts/f603f97c-37d7-4e58-b264-c27e9e393dd9'
```

Generating a JWT

Regardless of which [code snippet](#) you use, follow these steps:

1. Replace `key name` and `key secret` with your key name and private key. `key secret` is a multi-line key and newlines must be preserved to properly parse the key. Do this on one line with `\n` escaped newlines, or with a multi-line string.
2. Replace the request method and path you want to test. If the URI has a UUID in the path, include that UUID here, e.g., `/api/v3/brokerage/accounts/f603f97c-37d7-4e58-b264-c27e9e393dd9`.
3. Run the generation script that prints the command `export JWT=...`.
4. Run the generated command to save your JWT.

⚠ Caution

Your JWT expires after 2 minutes, after which all requests are unauthenticated.

⚠ Caution

You must generate a different JWT for each unique API request.

Code Samples

The easiest way to generate a JWT is to use the built-in functions in our [Python SDK](#) as described below.

Otherwise, use the code samples below to generate/export a JWT and make an authenticated request.

[Python SDK](#) Python Go JavaScript PHP Java C++ TypeScript C >

1. Install the SDK.

```
pip3 install coinbase-advanced-py
```

2. In the console, run: `python main.py` (or whatever your file name is).
3. Set the JWT to that output, or export the JWT to the environment with `export JWT=$(python main.py)`.
4. Make your request, example `curl -H "Authorization: Bearer $JWT" 'https://api.coinbase.com/api/v3/brokerage/accounts'`

```
from coinbase import jwt_generator

api_key = "organizations/{org_id}/apiKeys/{key_id}"
api_secret = "-----BEGIN EC PRIVATE KEY-----\nYOUR PRIVATE KEY\n-----END EC PRIVATE KEY-----\n"

request_method = "GET"
request_path = "/api/v3/brokerage/accounts"

def main():
    jwt_uri = jwt_generator.format_jwt_uri(request_method, request_path)
    jwt_token = jwt_generator.build_rest_jwt(jwt_uri, api_key, api_secret)
    print(jwt_token)

if __name__ == "__main__":
    main()
```

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