

# API Reference: Pinned Endpoints

**Version:** 3.1.0

**Policy:** Only documented endpoints used. No invented APIs.

## Helius

**Base URL:** <https://api.helius.xyz>

**Auth:** API key as query param ?api-key={KEY}

**Env Var:** HELIUS\_API\_KEY

### Webhooks Setup

POST /v0/webhooks

**Body:**

```
{
  "webhookURL": "https://your-server.com/webhook",
  "transactionTypes": ["SWAP"],
  "accountAddresses": ["wallet1", "wallet2"],
  "webhookType": "enhanced"
}
```

**Rate Limit:** 10 requests/sec

### Enhanced Transaction History

GET /v0/addresses/{address}/transactions

**Params:** ?api-key={KEY}&type=SWAP&limit=100

**Rate Limit:** 10 requests/sec

### Account Info (RPC Proxy)

POST /v0/rpc?api-key={KEY}

**Body:**

```
{
  "jsonrpc": "2.0",
  "id": 1,
  "method": "getAccountInfo",
  "params": ["address", {"encoding": "jsonParsed"}]
}
```

**Rate Limit:** 50 requests/sec (RPC calls)

## Parse Transaction

POST /v0/transactions

### Body:

```
{
  "transactions": ["signature1", "signature2"]
}
```

**Rate Limit:** 10 requests/sec, max 100 txs per call

## BirdEye

**Base URL:** <https://public-api.birdeye.so>

**Auth:** Header X-API-KEY: {KEY}

**Env Var:** BIRDEYE\_API\_KEY

## Token Price

GET /defi/price

**Params:** ?address={token\_address}

**Response:**

```
{
  "data": {
    "value": 0.00123,
    "updateUnixTime": 1706198400
  }
}
```

**Rate Limit:** 100 requests/min (free), 1000/min (paid)

## Token Overview

GET /defi/token\_overview

**Params:** ?address={token\_address}

**Returns:** liquidity, volume, holders, creation time

## Trending Tokens

GET /defi/token\_trending

**Params:** ?sort\_by=rank&sort\_type=asc&offset=0&limit=20

**Rate Limit:** 10 requests/min

## Token List by Wallet

GET /v1/wallet/token\_list

**Params:** ?wallet={address}

**Rate Limit:** 50 requests/min

# Jupiter

**Base URL:** <https://quote-api.jup.ag/v6>

**Auth:** None required (public API)

**Env Var:** N/A

## Quote API

GET /quote

## Params:

- `inputMint` : Source token address
  - `outputMint` : Destination token address
  - `amount` : Amount in smallest unit (lamports for SOL)
  - `slippageBps` : Slippage tolerance in basis points

## Example:

**Rate Limit:** 600 requests/min

## Swap API

## POST /swap

## **Body:**

```
{  
  "quoteResponse": { /* from /quote */ },  
  "userPublicKey": "your_wallet_address",  
  "wrapAndUnwrapSol": true  
}
```

**Returns:** Serialized transaction for signing

**Rate Limit:** 300 requests/min

## Swap Instructions

## POST /swap-instructions

**Body:** Same as /swap

**Returns:** Individual instructions for custom transaction building

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## Solana RPC

### Endpoints:

- Helius: <https://rpc.helius.xyz/?api-key={KEY}>
- Public: <https://api.mainnet-beta.solana.com> (rate limited)

**Env Var:** SOLANA\_RPC\_URL

### simulateTransaction

```
{
  "jsonrpc": "2.0",
  "id": 1,
  "method": "simulateTransaction",
  "params": [
    {
      "base64_encoded_transaction": {
        "encoding": "base64",
        "commitment": "confirmed",
        "replaceRecentBlockhash": true
      }
    }
  ]
}
```

**Use:** Honeypot detection, tax calculation

**Rate Limit:** 100/sec (Helius), 10/sec (public)

### getTransaction

```
{
  "jsonrpc": "2.0",
  "id": 1,
  "method": "getTransaction",
  "params": [
    {
      "transaction_signature",
      {"encoding": "jsonParsed", "maxSupportedTransactionVersion": 0}
    }
  ]
}
```

**Use:** Verify execution, parse results

## getSignaturesForAddress

```
{
  "jsonrpc": "2.0",
  "id": 1,
  "method": "getSignaturesForAddress",
  "params": [
    "wallet_address",
    {"limit": 100, "before": "signature"}
  ]
}
```

**Use:** Fetch wallet transaction history

**Rate Limit:** 5/sec (public), 50/sec (Helius)

## getBalance

```
{
  "jsonrpc": "2.0",
  "id": 1,
  "method": "getBalance",
  "params": ["wallet_address"]
}
```

**Returns:** Balance in lamports

## DexScreener

**Base URL:** <https://api.dexscreener.com>

**Auth:** None required

**Use:** Harvester trending token discovery

### Trending Tokens (Solana)

```
GET /latest/dex/tokens/{tokenAddress}
```

**Returns:** Pair info, liquidity, volume, price changes

### Search Pairs

```
GET /latest/dex/search/?q={query}
```

**Params:** Token symbol or address

**Rate Limit:** 300 requests/min

### Boosted Tokens

```
GET /token-boosts/latest/v1
```

**Returns:** Currently boosted/promoted tokens

**Use:** Identify potential pump targets

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## Solscan (Backup)

**Base URL:** <https://pro-api.solscan.io/v1.0>

**Auth:** Header token: {KEY}

**Env Var:** SOLSCAN\_API\_KEY

### Account Transactions

```
GET /account/transactions
```

**Params:** ?account={address}&limit=50

**Rate Limit:** 20 requests/min (free), 100/min (pro)

### Account Transfers

```
GET /account/transfer
```

**Params:** ?account={address}&type=sol&limit=50

**Use:** Funding relationship discovery

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## Rate Limit Summary

Service	Endpoint Type	Free Tier	Paid Tier
Helius	RPC	50/sec	500/sec
Helius	Enhanced	10/sec	100/sec
BirdEye	Price	100/min	1000/min
Jupiter	Quote	600/min	600/min
Jupiter	Swap	300/min	300/min
Solana Public	All	10/sec	N/A
DexScreener	All	300/min	300/min

## Authentication Requirements

Service	Method	Required
Helius	Query param api-key	Yes
BirdEye	Header X-API-KEY	Yes
Jupiter	None	No
Solana RPC	Varies by provider	Depends
DexScreener	None	No
Solscan	Header token	Yes (for pro features)

### Environment Variables:

```
HELIUS_API_KEY=xxx
BIRDEYE_API_KEY=xxx
SOLSCAN_API_KEY=xxx
SOLANA_RPC_URL=https://rpc.helius.xyz/?api-key=xxx
```