

KuCoin Futures Trading - Complete Knowledge Base

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Overview

This knowledge base contains everything needed for automated KuCoin futures trading using Python scripts. Our system provides:

- **Automated position opening** with custom leverage and take profit
- **Real-time monitoring** of positions and PnL
- **Flexible position closing** (individual or all positions)
- **Complete API integration** with KuCoin futures
- **Risk management** and safety features

Key Features

- **20x Leverage Trading** with automatic position sizing
 - **Auto Take Profit** orders (configurable)
 - **Real-time Monitoring** via API
 - **Multiple Position Management**
 - **Complete Trade Logging**
 - **Error Handling & Recovery**
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Setup & Installation

Prerequisites

- **Windows PC** with Python 3.11+
- **KuCoin Account** with Futures Trading enabled
- **API Keys** with Futures Trading permissions

Step-by-Step Setup

1. Install Python

- Download from <https://www.python.org/downloads/>
- ⚠ **IMPORTANT:** Check "Add Python to PATH" during installation
- **Do NOT check** "Use admin privileges"

2. Create Project Folder

Desktop/KuCoin_Trading/

3. Required Files

Save these files in your KuCoin_Trading folder:

- `kucoin_client.py` - Core API client
- `auto_trader_simple.py` - Main trading bot
- `account_monitor_fixed.py` - Position monitoring
- `close_all_positions.py` - Close all positions
- `close_custom_position.py` - Close selected positions
- `setup.bat` - One-time setup script
- `run_trading.bat` - Easy launcher

4. Run Setup

1. Double-click `setup.bat`
 2. Follow prompts to install required packages
 3. Setup completes automatically
-

API Configuration

KuCoin API Credentials

```
API_KEY = "68415ace6025980001ef6f19"  
API_SECRET = "492b4c52-bcac-4990-9452-ca8eeb52fe4e"  
API_PASSPHRASE = "Danutz1981"
```

API Permissions Required

- **General** - Basic account access
- **Futures Trading** - Place and manage orders
- **Withdrawals** - Not needed for trading

Geographic Requirements

- **Romania** - Fully supported
 - **Europe/Asia** - Supported regions
 - **United States** - Blocked by KuCoin
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Available Scripts

1. Auto Trader (`auto_trader_simple.py`)

Main trading bot for opening positions

Features:

- Asks for your real account balance
- Uses 5% of balance for each trade (or \$5 fallback)
- 20x leverage on all trades
- LONG positions only (profit when price goes UP)
- Automatic take profit orders
- Symbol input (e.g., "WIF" → "WIFUSDTM")

Usage:

```
python auto_trader_simple.py
```

Input Example:

Balance in USDT: \$80
Symbol: WIF

Output:

- Opens LONG position with 20x leverage
- Sets take profit order
- Saves trade details to JSON

2. Account Monitor (`account_monitor_fixed.py`)

Real-time position and account monitoring

Features:

- Account overview (balance, equity, margins)
- All open positions with real-time PnL
- Recent trade executions
- Active orders status
- Saves monitoring data to JSON

Usage:

```
python account_monitor_fixed.py
```

Output Example:

```
Position #1: WIFUSDTM  
  Opened: 2025-06-05 17:13:05  
Side: LONG  
Size: 1.0  
Entry Price: $0.86  
Current Price: $0.89  
PnL: +$0.26 (+3.02%)
```

3. Close Custom Position (`close_custom_position.py`)

Selective position closing

Features:

- Lists all open positions
- Select specific position to close (1, 2, 3...)
- Option to close ALL positions

- Confirmation required
- Shows realized PnL

Usage:

```
python close_custom_position.py
```

Options:

- Enter 1-N for specific position
- Enter ALL to close everything
- Enter CANCEL to exit

4. ⚠ Close All Positions (`close_all_positions.py`)

Emergency close all positions

Features:

- Shows all positions with current PnL
- Requires "CLOSE ALL" confirmation
- Closes every position at market price
- Detailed summary of realized PnL

Usage:

```
python close_all_positions.py
```

Safety:

- Requires typing "CLOSE ALL" to confirm
 - Shows total PnL before closing
 - Cannot be undone
-

Trading Strategies

Position Opening Strategy

1. **Balance Management:** Use 5% of account per trade
2. **Leverage:** Always 20x for maximum efficiency
3. **Direction:** LONG only (profit when price rises)
4. **Symbols:** Focus on volatile coins (WIF, AVAX, etc.)
5. **Take Profit:** \$4 target (may need manual adjustment)

Risk Management

- **Maximum Risk:** 5% of account per trade
- **Stop Loss:** Monitor manually, close at -\$3 to -\$5 loss
- **Position Sizing:** 1 lot minimum, scales with balance
- **Diversification:** Multiple small positions vs one large

Profit Taking

- **Small Profits:** \$1-2 per position (hold for more)
 - **Good Profits:** \$3-5 per position (consider closing)
 - **Excellent Profits:** \$5+ per position (definitely close)
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Monitoring & Management

Daily Monitoring Routine

1. **Morning Check:** Run account monitor
2. **Midday Update:** Check positions during lunch
3. **Evening Review:** Assess day's performance
4. **Before Sleep:** Final position check

Key Metrics to Watch

- **Current Price** vs Entry Price
- **PnL Amount** in USD
- **PnL Percentage** for performance
- **Account Equity** for overall health

When to Take Action

Close Positions When:

- Good profit achieved (\$3-5+)
- Strong resistance levels hit
- Market sentiment turns negative
- Before major news events

Hold Positions When:

- Small profits (under \$2)
- Strong upward momentum

- Good market conditions
 - Technical indicators bullish
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Troubleshooting

Common Issues & Solutions

"Insufficient Balance" Error

Problem: API shows \$0 balance but you have funds

Solution:

- Enter your real balance when prompted
- Check if funds are in Futures account (not Main)
- Transfer from Main to Futures if needed

"Invalid KC-API-SIGN" Error

Problem: Authentication failure

Solution:

- Check API credentials are correct
- Ensure API has Futures Trading permissions
- Verify passphrase is "Danutz1981"

Take Profit Too High (\$400+)

Problem: Unrealistic take profit prices

Solution:

- Cancel the take profit order manually
- Set realistic take profit (e.g., \$1.20-\$1.40 for WIF)
- Monitor manually for profit opportunities

Position Size Calculation Wrong

Problem: Script estimates wrong position value

Solution:

- Use account monitor to see real position size
- 1 lot typically = \$8-10 worth of crypto
- Ignore script estimates, trust API data

Error Codes

- **300003:** Insufficient balance

- **400005:** Invalid API signature
 - **401:** Unauthorized (check API permissions)
-

Best Practices

Trading Best Practices

1. **Start Small:** Begin with \$10-20 positions
2. **Monitor Regularly:** Check positions 2-3 times daily
3. **Take Profits:** Don't be greedy, secure gains
4. **Cut Losses:** Exit bad trades quickly
5. **Keep Records:** Use JSON logs for analysis

Technical Best Practices

1. **Backup Scripts:** Keep copies of all files
2. **Save Logs:** Keep JSON files for trade history
3. **Test First:** Try small positions before large ones
4. **Update Regularly:** Check for script improvements
5. **Stay Informed:** Follow crypto news and trends

Security Best Practices

1. **Protect API Keys:** Never share credentials
 2. **Use Secure Network:** Avoid public WiFi for trading
 3. **Regular Monitoring:** Check account regularly
 4. **Limit Permissions:** Only enable needed API permissions
 5. **Backup Data:** Save important trade records
-

Examples & Use Cases

Example 1: Opening a WIF Position

```
# Run the auto trader
python auto_trader_simple.py

# Input your balance
Balance in USDT: $80

# Choose symbol
```


Symbol: WIF

Result: Opens LONG position with 20x leverage
Uses \$4 (5% of \$80) for the trade
Sets take profit order

Example 2: Monitoring Positions

Check current status
python account_monitor_fixed.py

Shows all positions with real-time PnL
Example output:
Position #1: WIFUSDTM
Entry: \$0.86 → Current: \$0.89
PnL: +\$0.26 (+3.02%)

Example 3: Closing Profitable Position

Select which position to close
python close_custom_position.py

Choose position 1
Which position would you like to close? 1

Confirms closure and shows realized profit
Position closed: +\$3.45 profit

Example 4: Emergency Exit

Close all positions immediately
python close_all_positions.py

Type confirmation
Are you sure? CLOSE ALL

All positions closed, total PnL shown

Performance Tracking

Key Performance Indicators (KPIs)

- **Win Rate:** Percentage of profitable trades
- **Average Profit:** Average profit per winning trade
- **Average Loss:** Average loss per losing trade
- **Risk/Reward Ratio:** Average profit vs average loss
- **Total Return:** Overall account growth

Trade Logging

All scripts automatically save detailed logs:

- simple_trade_WIF_[OrderID]_[Timestamp].json
- close_position_[OrderID]_[Timestamp].json
- account_monitor_fixed_[Timestamp].json

Analysis Tips

1. **Review Weekly:** Analyze performance weekly
 2. **Identify Patterns:** Look for successful strategies
 3. **Adjust Strategy:** Modify based on results
 4. **Track Symbols:** Note which coins perform best
 5. **Time Analysis:** Identify best trading times
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Advanced Features

Custom Position Sizing

Modify the 5% rule in scripts:

```
investment_amount = user_balance * 0.05 # Change 0.05 to desired percentage
```

Different Leverage

Change leverage from 20x:

```
leverage = 20 # Change to desired leverage (1-100)
```

Multiple Symbols

Trade different cryptocurrencies:

- WIF (Dogwifhat)
- AVAX (Avalanche)
- BTC (Bitcoin)
- ETH (Ethereum)
- SOL (Solana)

Custom Take Profit

Set realistic take profit levels:

```
TAKE_PROFIT_AMOUNT = 4.0 # Change to desired profit target
```

Support & Resources

KuCoin Resources

- **API Documentation:** <https://www.kucoin.com/docs-new/rest/futures-trading>
- **Futures Trading Guide:** KuCoin Help Center
- **Market Data:** KuCoin Futures Platform

Script Maintenance

- **Regular Updates:** Check for improvements monthly
- **Bug Reports:** Document any issues encountered
- **Feature Requests:** Note desired enhancements
- **Backup Strategy:** Keep multiple copies of working scripts

Community & Learning

- **Crypto News:** Stay updated on market trends
 - **Technical Analysis:** Learn chart reading
 - **Risk Management:** Study position sizing strategies
 - **Trading Psychology:** Develop discipline and patience
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⚠ Disclaimers & Warnings

Trading Risks

- **High Risk:** Futures trading with leverage is extremely risky
- **Potential Losses:** You can lose more than your initial investment
- **Market Volatility:** Crypto markets are highly volatile
- **No Guarantees:** Past performance doesn't guarantee future results

Technical Risks

- **API Limitations:** KuCoin API may have downtime
- **Script Errors:** Automated trading has technical risks
- **Network Issues:** Internet connectivity problems
- **Account Security:** Protect your API credentials

Recommendations

- **Start Small:** Begin with amounts you can afford to lose
 - **Educate Yourself:** Learn about trading and risk management
 - **Monitor Closely:** Don't rely solely on automation
 - **Professional Advice:** Consider consulting financial advisors
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Version History

v1.0 - Initial Release

- Basic auto trading functionality
- Position monitoring
- Simple position closing

v1.1 - Enhanced Features

- User balance input
- Improved error handling
- Better position sizing

v1.2 - Advanced Management

- Custom position closing
- Close all positions feature

- Enhanced monitoring

v1.3 - Complete System

- Comprehensive documentation
 - Best practices guide
 - Performance tracking
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Quick Reference Commands

Essential Commands

Open new position

python auto_trader_simple.py

Monitor positions

python account_monitor_fixed.py

Close specific position

python close_custom_position.py

Emergency close all

python close_all_positions.py

File Structure

```
KuCoin_Trading/
├── kucoin_client.py      # Core API client
├── auto_trader_simple.py  # Main trading bot
├── account_monitor_fixed.py # Position monitoring
├── close_custom_position.py # Selective closing
├── close_all_positions.py  # Close all positions
├── setup.bat             # Setup script
├── run_trading.bat        # Easy launcher
├── logs/                 # Trade logs (auto-created)
│   ├── simple_trade_*.json
│   ├── close_position_*.json
│   └── account_monitor_*.json
```

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