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"""
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幣安 5 分鐘漲幅監控（現貨 + 合約）+ Telegram 通知

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部署平台：Railway.app（免費）

手機只需安裝 Telegram 即可收到通知！

取得 Telegram Bot Token：

Telegram 搜尋 @BotFather → /newbot → 複製 Token

取得 Chat ID：

Telegram 搜尋 @userinfobot → 發任意訊息 → 複製 id 數字

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"""
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import requests
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import time
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import logging
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import os
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```
from datetime import datetime
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# =====
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# 設定（Railway 上用環境變數，本地測試可直接填）
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# =====
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```
TELEGRAM_BOT_TOKEN = os.environ.get("TELEGRAM_BOT_TOKEN", "YOUR_BOT_TOKEN")
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```
TELEGRAM_CHAT_ID = os.environ.get("TELEGRAM_CHAT_ID", "YOUR_CHAT_ID")
```

```
ALERT_THRESHOLD = float(os.environ.get("ALERT_THRESHOLD", "3.0")) # 漲幅門檻（%
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```
DROP_THRESHOLD = -float(os.environ.get("DROP_THRESHOLD", "3.0")) # 跌幅門檻（%
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```
COOLDOWN_MINUTES = int(os.environ.get("COOLDOWN_MINUTES", "30")) # 冷卻時間（分
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```
CHECK_INTERVAL = int(os.environ.get("CHECK_INTERVAL", "60")) # 掃描間隔（秒
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```
KLINE_INTERVAL = os.environ.get("KLINE_INTERVAL", "5m") # K線週期
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```
MONITOR_SPOT = True # 監控現貨
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```
MONITOR_FUTURES = True # 監控合約
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# =====
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SPOT_BASE = "https://api.binance.com"
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FUTURES_BASE = "https://fapi.binance.com"
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```
logging.basicConfig(
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    level=logging.INFO,
```

```
    format="%(asctime)s %(message)s",
```

```
    datefmt="%H:%M:%S"
```

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)
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```
log = logging.getLogger(__name__)
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```
alert_cooldown: dict = {}
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# -----  
# 取得交易對列表  
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```
def get_spot_symbols() -> list:  
    resp = requests.get(f"{SPOT_BASE}/api/v3/exchangeInfo", timeout=15)  
    resp.raise_for_status()  
    symbols = [  
        s["symbol"] for s in resp.json()["symbols"]  
        if s["quoteAsset"] == "USDT" and s["status"] == "TRADING"  
    ]  
    log.info(f"[現貨] 共 {len(symbols)} 個 USDT 交易對")  
    return symbols
```

```
def get_futures_symbols() -> list:  
    resp = requests.get(f"{FUTURES_BASE}/fapi/v1/exchangeInfo", timeout=15)  
    resp.raise_for_status()  
    symbols = [  
        s["symbol"] for s in resp.json()["symbols"]  
        if s["quoteAsset"] == "USDT"  
        and s["status"] == "TRADING"  
        and s["contractType"] == "PERPETUAL"  
    ]  
    log.info(f"[合約] 共 {len(symbols)} 個 USDT 永續合約")  
    return symbols
```

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# -----  
# 取得 K 線漲幅  
# -----
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```
def get_kline_change(base_url: str, path: str, symbol: str):  
    try:  
        resp = requests.get(  
            f"{base_url}{path}",  
            params={"symbol": symbol, "interval": KLINE_INTERVAL, "limit": 2},  
            timeout=5  
        )  
        resp.raise_for_status()  
        kline = resp.json()[-2] # 已收盤的 K 線  
        o = float(kline[1])  
        c = float(kline[4])  
        if o == 0:
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        return None
    return round((c - o) / o * 100, 2)
except Exception:
    return None

# -----
#   Telegram 通知
# -----

def send_telegram(message: str):
    try:
        resp = requests.post(
            f"https://api.telegram.org/bot{TELEGRAM_BOT_TOKEN}/sendMessage",
            json={"chat_id": TELEGRAM_CHAT_ID, "text": message, "parse_mode": "HT",
                timeout=10
            )
        if resp.status_code != 200:
            log.warning(f"Telegram 發送失敗: {resp.text}")
    except Exception as e:
        log.warning(f"Telegram 錯誤: {e}")

def format_alert(market: str, symbol: str, change: float) -> str:
    icon = "🚀" if change > 0 else "▼"
    tag = "現貨" if market == "spot" else "合約"
    sign = "+" if change > 0 else ""
    now = datetime.now().strftime("%H:%M:%S")
    return (
        f"{icon} 【{tag}】 <b>{symbol}</b>\n"
        f"📊 {KLINE_INTERVAL} 漲幅: <b>{sign}{change}%</b>\n"
        f"🕒 {now}"
    )

# -----
#   冷卻機制
# -----

def is_in_cooldown(key: str) -> bool:
    return key in alert_cooldown and (time.time() - alert_cooldown[key]) < COOLDOWN

# -----
#   掃描市場
# -----

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def scan_market(market: str, base_url: str, path: str, symbols: list) -> int:
    triggered = []
    for symbol in symbols:
        change = get_kline_change(base_url, path, symbol)
        if change is None:
            continue
        key = f"{market}:{symbol}"
        if (change >= ALERT_THRESHOLD or change <= DROP_THRESHOLD) and not is_in_triggered.append((symbol, change))
        alert_cooldown[key] = time.time()
        time.sleep(0.05)

    triggered.sort(key=lambda x: abs(x[1]), reverse=True)
    for symbol, change in triggered:
        log.info(f"[{market}] {symbol} {change:+.2f}%")
        send_telegram(format_alert(market, symbol, change))

    return len(triggered)

# -----
# 主程式
# -----

def main():
    if "YOUR_" in TELEGRAM_BOT_TOKEN or "YOUR_" in TELEGRAM_CHAT_ID:
        print("❌ 請先設定 TELEGRAM_BOT_TOKEN 和 TELEGRAM_CHAT_ID!")
        return

    log.info("=" * 45)
    log.info(f"幣安漲幅監控啟動 | 週期: {KLINE_INTERVAL}")
    log.info(f"門檻: 漲 +{ALERT_THRESHOLD}% / 跌 {DROP_THRESHOLD}%")
    log.info(f"冷卻: {COOLDOWN_MINUTES} 分鐘 | 掃描: 每 {CHECK_INTERVAL} 秒")
    log.info("=" * 45)

    send_telegram(
        f"✅ <b>幣安漲幅監控已啟動</b>\n"
        f"📈 現貨 + 合約\n"
        f"⚡ 門檻: 漲 +{ALERT_THRESHOLD}% / 跌 {abs(DROP_THRESHOLD)}%\n"
        f"🕒 K線週期: {KLINE_INTERVAL}"
    )

    # 取得交易對列表 (只在啟動時取一次, 每小時更新)
    spot_symbols = get_spot_symbols() if MONITOR_SPOT else []
    futures_symbols = get_futures_symbols() if MONITOR_FUTURES else []
    last_refresh = time.time()

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while True:
    # 每小時重新取得最新交易對列表
    if time.time() - last_refresh > 3600:
        spot_symbols = get_spot_symbols() if MONITOR_SPOT else []
        futures_symbols = get_futures_symbols() if MONITOR_FUTURES else []
        last_refresh = time.time()

    log.info(f"開始掃描...")

    total = 0
    if MONITOR_SPOT:
        total += scan_market("spot", SPOT_BASE, "/api/v3/klines", spo
    if MONITOR_FUTURES:
        total += scan_market("futures", FUTURES_BASE, "/fapi/v1/klines", fut

    log.info(f"掃描完成，共觸發 {total} 個通知。等待 {CHECK_INTERVAL} 秒...")
    time.sleep(CHECK_INTERVAL)

if __name__ == "__main__":
    main()

```