

☀ Simple Guide: How to Use the IBKR Strategy Templates (ib_insync OR ibapi)

Works with the Read-Only Dashboard (auto-detects all logs)

This guide explains:

1. Folder structure
 2. Copying the template
 3. Editing the CONFIG section
 4. Writing your strategy logic
 5. Running the strategy (ib_insync or ibapi)
 6. Viewing results on the dashboard
-

1 Folder Structure (Required)

Your project must look like this:

Quant_X_Dashboard_Monitor/

|

└─ dashboard_read_only.py

└─ .env

└─ utils/

| └─ client_id_manager.py

| └─ performance_metrics.py

|

└─ strategies_runner/

└─ asset_runner_insync.py (optional)

└─ asset_runner_ibapi.py (optional)

└─ logs/

└─ ASSET_RUNNER/

| └─ trade_log.csv

```
└─ IYW_GLD_volguard/  
  └─ trade_log.csv  
    └─ ...
```

The read-only dashboard automatically loads:

strategies_runner/logs/<STRATEGY_NAME>/trade_log.csv

2 Copy Your Preferred Template

You have **two templates** available:

✓ **ib_insync** template

- ✓ easier to code
- ✓ more reliable event handling
- ✓ recommended for beginners and most strategies

Save as:

strategies_runner/asset_runner_insync.py

✓ **ibapi** template

- ✓ lower-level, more control
- ✓ more verbose coding
- ✓ good for those comfortable with raw IBAPI

Save as:

strategies_runner/ asset_runner_ibapi.py

3 Edit the CONFIG Section (Important)

In both templates, find:

APP_NAME = "MY_STRATEGY_NAME"

SYMBOL = "AAPL"

SEC_TYPE = "STK"

EXCHANGE = "SMART"

CURRENCY = "USD"

Change to match your strategy:

Example:

```
APP_NAME = " SPY_0DTE "
```

```
SYMBOL = "IYW"
```

```
SEC_TYPE = "STK"
```

```
EXCHANGE = "ARCA"
```

```
CURRENCY = "USD"
```

This must match the folder where logs will be written:

```
strategies_runner/logs/SPY_0DTE/
```

Implement Your Strategy Logic

Both templates include this method:

```
def compute_signal(self, price: float) -> Optional[str]:  
    return None
```

Replace with your logic:

Example SMA:

```
def compute_signal(self, price: float):  
    self.prices.append(price)  
  
    if len(self.prices) < 30:  
        return None  
  
    fast = np.mean(self.prices[-10:])  
    slow = np.mean(self.prices[-30:])  
  
    if fast > slow and self.current_position == "NONE":  
        return "BUY"
```

```
if fast < slow and self.current_position == "LONG":  
    return "SELL"
```

```
return None
```

- ✓ Both templates interpret "BUY" and "SELL"
 - ✓ Both templates avoid looping trades
 - ✓ Both templates enforce USD 2,000 cap & min 1 share
-

5 Run the Strategy

Option A — Run the `ib_insync` version

```
cd strategies_runner
```

```
python spy_0dte_insync.py
```

You will see something like:

```
[SPY_0DTE] Connecting to 127.0.0.1:7497...
```

```
[SPY_0DTE] Subscribed to live market data.
```

Option B — Run the `ibapi` version

```
cd strategies_runner
```

```
python spy_0dte_ibapi.py
```

You should see:

```
[SPY_0DTE] Connecting to IBKR...
```

```
[SPY_0DTE] Requesting market data...
```

6 Strategy Logs Are Written Automatically

Whenever a fill is confirmed by IBKR, both templates write:

```
strategies_runner/logs/SPY_0DTE/trade_log.csv
```

Each row contains (dashboard-compatible):

timestamp, symbol, action, price, quantity, pnl,

duration, position, status, ib_order_id, extra

✓ ib_insync → uses Trade.updateEvent

✓ ibapi → uses execDetails

Both templates log **only real fills**.

7 Open the Dashboard

Run:

```
streamlit run dashboard_read_only.py
```

The dashboard **auto-discovers** any strategy folder with:

trade_log.csv

You will see:

✓ Strategy name

✓ Trades table

✓ Equity curve

✓ Drawdown

✓ Metrics (CAGR, Sharpe, Profit Factor...)

✓ Per-strategy panels

8 Stopping a Strategy

Press:

CTRL + C

or close the terminal.

9 Running Multiple Strategies

You can run any combination of runners:

Example (ib_insync + ibapi mixed):

```
python spy_odte_runner_insync.py
```

```
python volguard_runner_ibapi.py
```

```
python ibm_fourier_runner_insync.py
```

```
python spy_0dte_runner_ibapi.py
```

Each:

- Gets a unique client ID from client_id_manager
- Writes to its own log folder
- Appears as its own row in the dashboard

✓ No interference

✓ No connection conflicts

✓ Full scalability