

## 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
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### **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

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## 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 IB API

Save as:

strategies\_runner/asset\_runner\_ibapi.py

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## 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/
```

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## 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
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## 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.
```

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### 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...
```

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## 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.**

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## 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
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## 8 Stopping a Strategy

Press:

CTRL + C

or close the terminal.

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## 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