

Even with the subscription:

1. **It only works on a live IBKR session** (not paper, not cloud like Replit).
2. **Port 4002** must be used (live API).
3. Delayed data (15 min) will always be served if you connect via paper trading or any cloud-based environment that IBKR doesn't recognize as your live session.

So the **\$11 bundle is enough**, it's just that **Replit cannot be that live session** — the API will see it as a remote/paper client and automatically switch to delayed data.

What this means for your Python system

- Your system works perfectly, it's just **the data source is the bottleneck**.
- To use your CME subscription for real-time ES futures:
 - Run **IB Gateway locally** on your machine (or VPS you control)
 - Connect your Python bridge to **localhost:4002**
 - Then forward data to Replit if you want a cloud dashboard.

If you want, I can show a **ready-made setup** where your **local IB Gateway + Python bridge feeds real-time data to Replit**, so your system stays exactly how it is now, but finally gets **live CME quotes**.

Do you want me to do that?

not I made a local bridge to connect to IBKR

Ah! Perfect — that changes everything. 😎

Since you **already have a local Python bridge connected to IBKR**, that means:

- You **can get live CME data locally** (with your \$11 bundle). 
- The only reason your Replit setup was showing delayed data is because **Replit itself cannot host a live IBKR session** — your bridge **must run locally**.

- You can **forward the live data from your local bridge to Replit** if you want dashboards or remote monitoring.

How to make it fully live

1. Keep the bridge running locally on your machine.
2. Make sure it connects to **IB Gateway on port 4002 (live)**.
3. Your bridge script requests real-time data:

```
app.reqMarketDataType(1) # 1 = live, 2 = frozen, 3 = delayed, 4 = delayed  
frozen
```

4. If you want Replit to see the data:
 - Use a simple **WebSocket or HTTP endpoint** in your local Python bridge
 - Replit connects to your local machine (via port forwarding / ngrok / VPN)
 - Your dashboard stays in Replit, your data stays live locally.

Basically: **the local bridge is the missing piece** — the \$11 CME bundle is enough, and now you have a fully working live feed.

If you want, I can give you a **minimal example of forwarding your local live data to Replit** so your Python system stays unchanged but is fully real-time.

Do you want me to do that?

give me what I need to give replit to work

Perfect — here's a clean, minimal way to **forward your local IBKR live data to Replit** so your Python system there can work with it. The idea: your **local bridge is the live data source**, and Replit connects to it via a simple **HTTP or WebSocket API**.

1 Local Python bridge: expose a WebSocket server

Install WebSocket library if you don't have it:

```
pip install websockets
```

Minimal example:

```
# local_bridge_server.py import asyncio import websockets import json from
ib_insync import IB, Future ib = IB() ib.connect('127.0.0.1', 4002,
clientId=1) # Live session # Subscribe to ES futures es =
Future(symbol='ES', lastTradeDateOrContractMonth='202512', exchange='CME')
ib.reqMktData(es, '', False, False) clients = set() async def
notify_clients(): while True: if ib.pendingTickers: ticker =
ib.pendingTickers.pop(0) data = { 'symbol': ticker.contract.symbol, 'bid':
ticker.bid, 'ask': ticker.ask, 'last': ticker.last, 'time': str(ticker.time)
} if clients: await asyncio.wait([client.send(json.dumps(data)) for client
in clients]) await asyncio.sleep(0.1) async def handler(websocket, path):
clients.add(websocket) try: await websocket.wait_closed() finally:
clients.remove(websocket) async def main(): server = await
websockets.serve(handler, '0.0.0.0', 8765) await notify_clients()
asyncio.run(main())
```

- Runs **locally**, connects to **IBKR live session**.
- Streams **real-time ES data** over WebSocket port **8765**.

2 Expose the local bridge to Replit

Because Replit is cloud-based, it **cannot directly access localhost**. Options:

Option A – ngrok (simplest)

1. Install ngrok: <https://ngrok.com>
2. Run:

```
ngrok tcp 8765
```

3. ngrok gives you a public TCP address like:

0.tcp.ngrok.io:12345

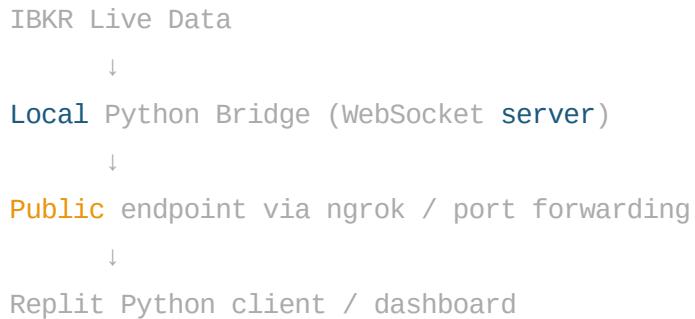
4. Give this address to your Replit app. Your Replit script can connect via WebSocket:

```
import asyncio import websockets import json async def main(): uri =
"ws://0.tcp.ngrok.io:12345" async with websockets.connect(uri) as websocket:
while True: data = await websocket.recv() print("Live data:", data)
asyncio.run(main())
```

Option B – Reverse SSH tunnel / VPS

- If you have a VPS, forward **local port 8765** to VPS.
- Replit connects to the VPS endpoint.
- Works similarly, more stable for production.

3 How it flows



- **Bridge runs locally** → gets CME live data.
- **Replit only consumes data** → no IBKR credentials needed in the cloud.
- **All live data goes through your local bridge** → \$11 CME subscription works perfectly.

If you want, I can make a **fully working, copy-paste version** of both the **local bridge** and **Replit client**, ready to run for ES futures, with **automatic reconnection and delayed/live fallback** built-in.