

NC Binance Adapter

User Manual · Version 3.0

Binance market data inside NinjaTrader 8: spot pairs and perpetual futures, history from daily bars down to every single trade, live prices and full SuperDOM depth.

Spot and perpetual futures

Spot pairs, USD-M and COIN-M perpetuals. Pick the symbols you want in one window.

Live data and Level 2

Last trade, bid and ask, and an order book kept in sync with Binance for the SuperDOM.

History down to the tick

Daily and 1-minute bars, plus every trade from Binance's daily archives for tick, Renko and range charts.

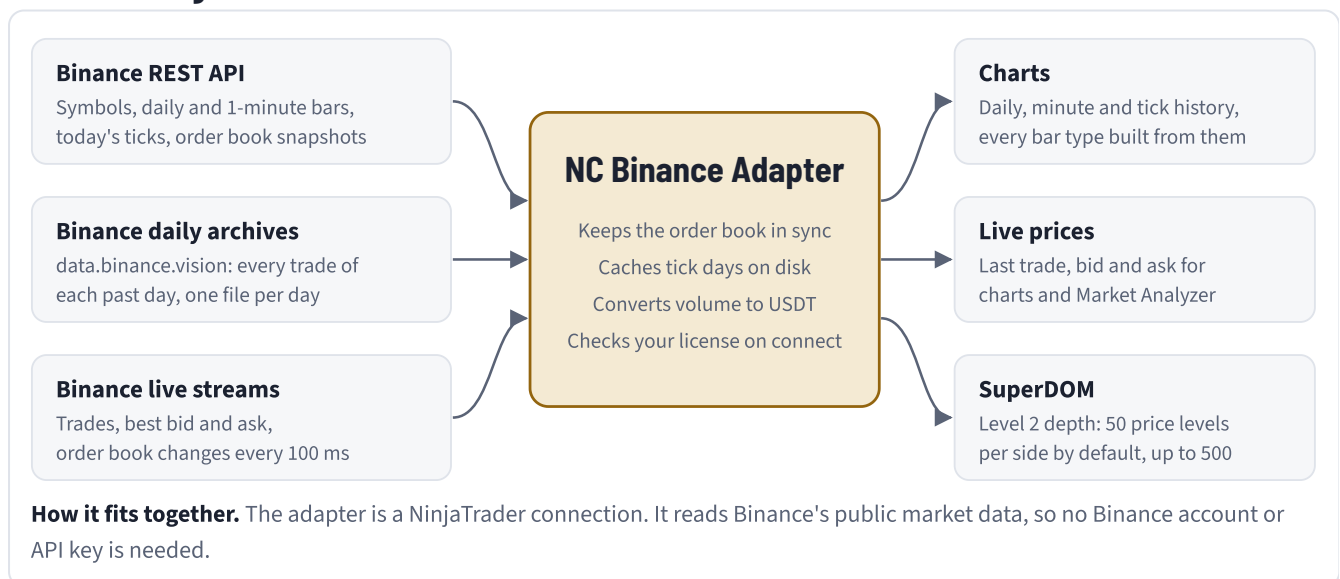
Volume in USDT

Volume is the traded value in the quote currency, so the volume of different coins can be compared directly.

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01 Before you start



You need:

- **NinjaTrader 8.1** or later.
- NinjaTrader in **Multi-provider mode** (section 3). Without it the Binance connection does not show up.
- An NC Binance Adapter license and the email of your ninjacoding.net account.

- Internet access to binance.com and ninjacoding.net. Binance does not serve every country; where Binance is blocked, the adapter can't load data.

Data only. The adapter brings Binance market data into NinjaTrader. It does not send orders to Binance. Use the data with a simulation account, for research and backtesting, or alongside your broker connection.

02 Installing

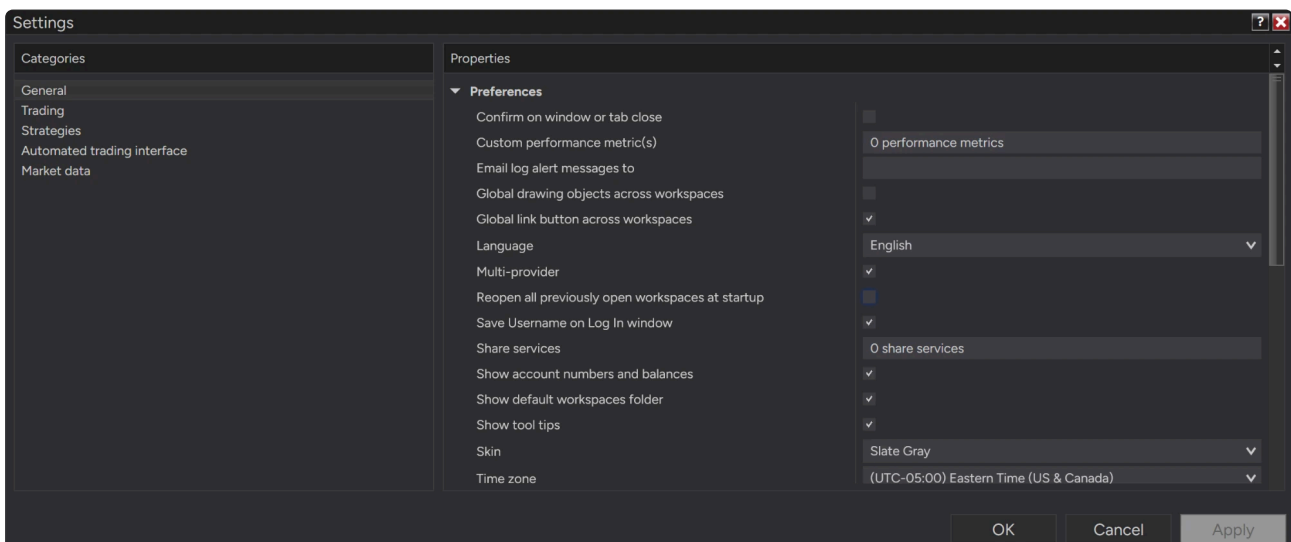
- 1 If you used the older Binance adapter that came with a setup program, uninstall it first: Windows **Settings** → **Apps**, select **BinanceAdapter** and click **Uninstall**. It uses the same connection slot in NinjaTrader, so the two can't be installed together. Binance instruments you created with it are kept and converted automatically the first time you connect.
- 2 In the Control Center, choose **Tools** → **Import** → **NinjaScript Add-On...** and select the NC Binance Adapter zip file. NinjaTrader compiles the import.
- 3 Turn on Multi-provider mode (next section) if it is off, then restart NinjaTrader. One restart covers both.

03 Turning on Multi-provider mode

REQUIRED

NinjaTrader must run in Multi-provider mode. Otherwise the Binance connection does not appear in the list of connections.

- 1 Open NinjaTrader.
- 2 Go to **Tools** → **Options** → **General**.
- 3 Enable **Multi-provider**.
- 4 Click **OK** and restart NinjaTrader.

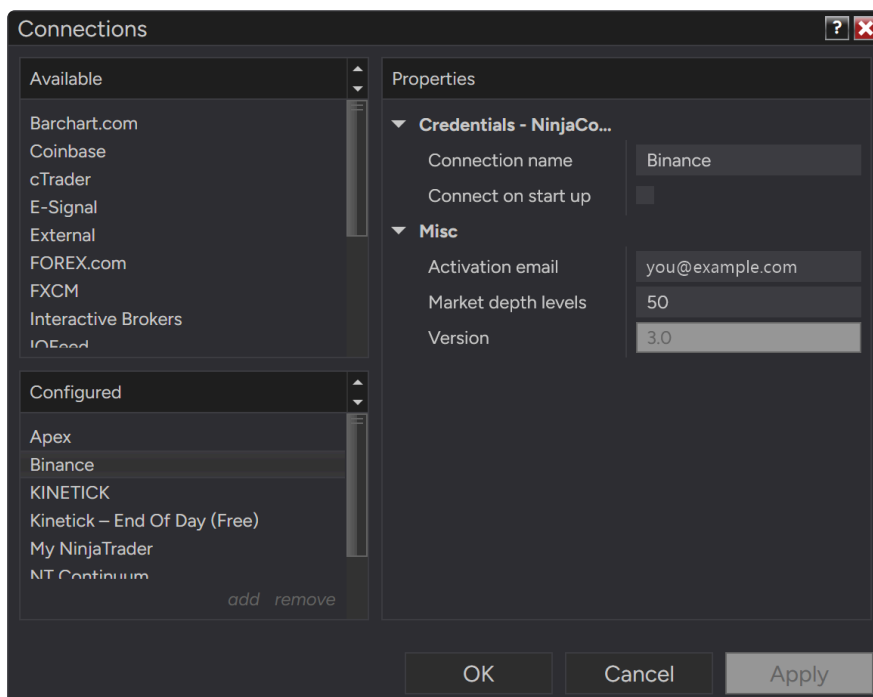


Tools → **Options** → **General**. With Multi-provider ticked, NinjaTrader can use the Binance connection next to your other connections.

04 Adding the Binance connection

- 1 In the Control Center, choose **Connections** → **Configure**.

- 2 In the **Available** list, select **NinjaConnectors Binance** and click **add** below the **Configured** list. That is the name NinjaTrader gives to its Binance connection slot.
- 3 Give the connection a name, for example `Binance`.
- 4 Under **Activation email**, enter the email of your ninjacoding.net account.
- 5 Click **OK**. To connect, choose **Connections** → **Binance** in the Control Center. The connection turns green once it is connected.



The Binance connection in Connections → Configure. Only the Activation email is required; the rest can stay at their defaults.

Setting	Default	What it does
Activation email	empty	The email of your ninjacoding.net account. The license is checked each time you connect (section 9).
Market depth levels	50	How many price levels per side the SuperDOM and other Level 2 windows receive. 1 to 500.
Version	3.0	The installed adapter version. Read only.
Connect on startup	off	NinjaTrader's own setting: connects automatically when NinjaTrader starts.

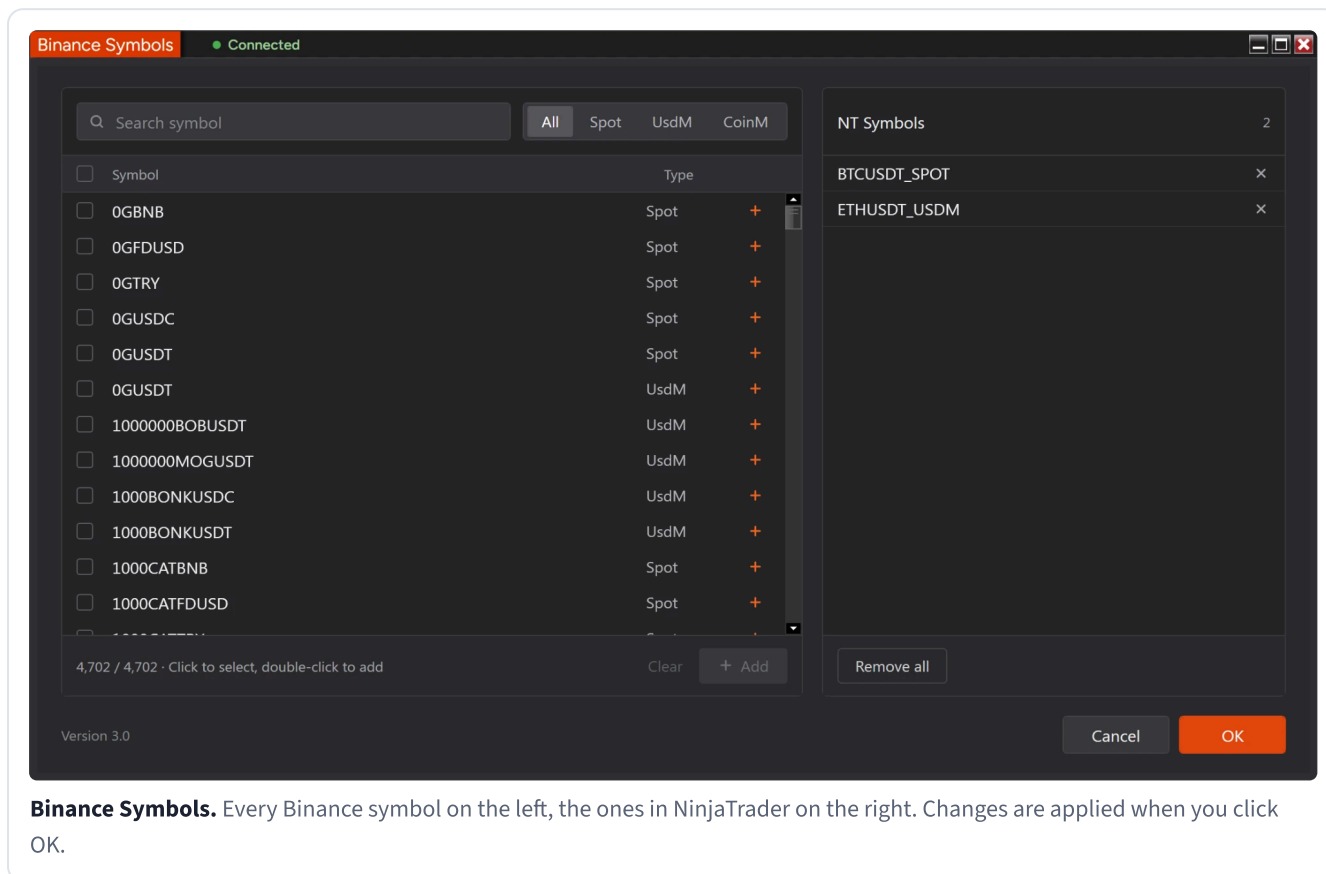
On every connect the adapter checks your license, reaches Binance's spot, USD-M and COIN-M servers, and loads the list of all Binance symbols. That takes a few seconds. The Log tab of the Control Center then shows a line starting with `NC Binance Adapter: 3.0 connected`.

05 Adding Binance symbols

Binance lists thousands of symbols. Add only the ones you want; each one becomes a NinjaTrader instrument that you can chart and use anywhere in NinjaTrader.

- 1 In the Control Center, choose **New** → **Binance Symbols**.

- 2 The left list shows every Binance symbol. Type in **Search symbol** to narrow it down, and use **Spot**, **UsdM** or **CoinM** to show one market (**All** shows every market).
- 3 Double-click a symbol, or select several and click **Add**. They move to **NT Symbols** on the right. A symbol that is already in NinjaTrader can't be added twice; its button says **Already in NT Symbols**.
- 4 To take a symbol out of NinjaTrader, click its remove button in **NT Symbols**, or use **Remove all**.
- 5 Click **OK** to apply the changes. The window asks before it removes instruments. **Cancel** closes the window without changes, and asks first if you changed anything.



The symbol list fills once the Binance connection is connected. After that it is remembered, so the window opens instantly.

Instrument names

Each instrument is named after the Binance symbol plus its market:

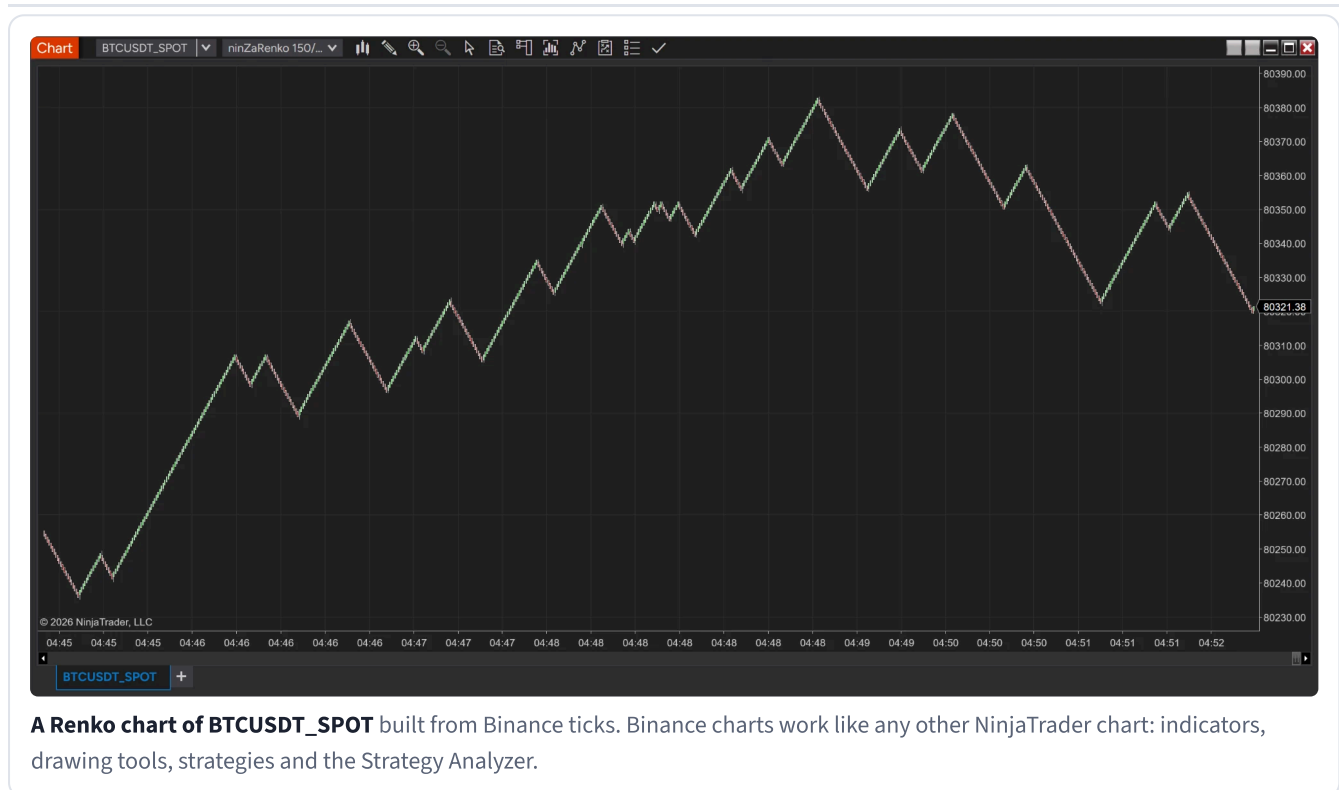
Market	Binance symbol	NinjaTrader instrument
Spot	BTCUSDT	BTCUSDT_SPOT
USD-M perpetual futures	BTCUSDT	BTCUSDT_USDM
COIN-M perpetual futures	BTCUSD_PERP	BTCUSD_PERP_COINM

Instruments get Binance's tick size and the **Default 24 x 7** trading hours. They are created with the type **Stock**, because NinjaTrader only accepts a short list of currency pairs as crypto. The type has no effect on charts, data or the SuperDOM.

06 Charts and history

Open a chart, type the instrument name (for example `BTCUSDT_USDM`) and choose any bar type. The adapter loads the history NinjaTrader asks for:

Bar type on the chart	Data loaded from Binance
Day, Week, Month, Year	Daily bars, one per UTC day as on Binance.
Minute and every time frame NinjaTrader builds from minutes	1-minute bars, 1,000 per request, four requests at a time. A month takes about 4 seconds, a year about 40 seconds. Long loads show in the Binance Downloads window (section 7).
Tick, Second, Renko, Range, Volume and other bars built from ticks	Every trade (tick), from Binance's daily archives and its API (section 7).



Volume

Volume is the traded value in the quote currency: price × quantity, so **USDT** for USDT pairs. On COIN-M futures it is **USD** (contracts × contract size). One `BTCUSDT` trade of 0.5 BTC at 80,000 counts as 40,000. For pairs quoted in another coin, such as `ETHBTC`, volume is counted in whole units of that coin, so use USDT pairs for volume-based tools.

Bid and ask on historical ticks

Binance's trade history has no bid and ask quotes, but every trade records which side started it. The adapter places trades started by a buyer at the ask and trades started by a seller at the bid, so buy and sell volume, delta and other order-flow tools classify historical trades correctly.

Time zone and storage

- Bar times follow NinjaTrader's time zone (**Tools** → **Options** → **General**).

- NinjaTrader saves the history it loads in its own database. The next time it only asks for what is missing. You can manage that data in **Tools → Historical Data**.

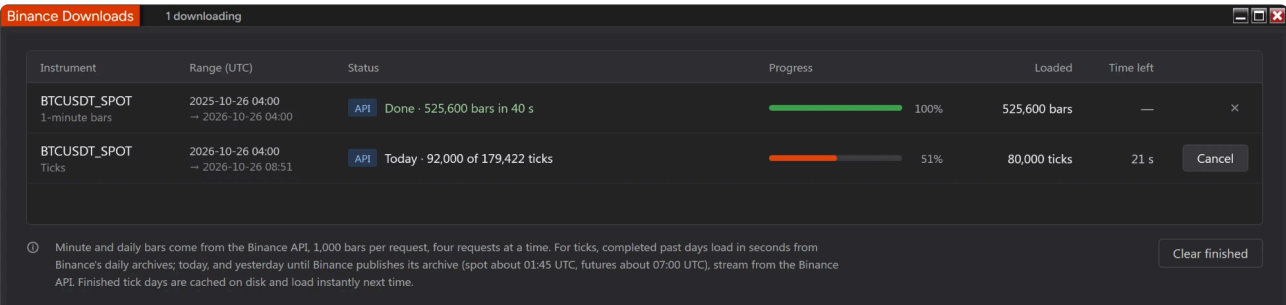
07 Tick data and the Downloads window

Tick history means every single trade, which is a lot of data on busy symbols. Binance publishes a file with all trades of each day. The adapter downloads those files four at a time, keeps them on disk, and uses the Binance API only for the hours that are not in a file yet.

Day	Where its ticks come from
Past days	Binance's daily archive file, downloaded once and kept on disk. A few seconds per day.
Yesterday, until Binance publishes its file (spot about 01:45 UTC, futures about 07:00 UTC)	The Binance API, then kept on disk.
Today	The Binance API, on every load. Busy futures symbols arrive at about 100,000 ticks per minute.

The Binance Downloads window

The **Binance Downloads** window shows every long load: tick downloads, and 1-minute bar loads of more than about three days. It opens by itself when a load runs longer than a few seconds, and you can open it from **New → Binance Downloads**.



Binance Downloads. Instrument and what is loading, date range in UTC, status, progress, bars or ticks loaded so far, and time left.

- The status says what is happening, for example:

Up to 2026-10-14 05:20 UTC	1-minute bars are coming from the Binance API, oldest first.
Downloaded 5 of 8 daily archives	Past tick days are being downloaded from Binance's archive.
Adding 2026-10-23 (day 3 of 8)	Downloaded tick days are being handed to NinjaTrader.
Today · 412,000 of 900,000 ticks	Today's trades are coming from the Binance API.
Done · 43,460 bars in 11 s	Finished; the chart has the data.

- **Cancel** stops a load. Tick days that were finished stay on disk, so the next load continues from there.
- **Clear finished** removes finished rows. They also go away by themselves after 30 minutes.

Tick files on disk. The downloaded days are kept in `Documents\NinjaTrader 8\NCBinanceCache`, one file per symbol and day. The folder is created automatically. You can delete it while NinjaTrader is closed to free space; days are downloaded again when needed.

08 Live data and the SuperDOM

While the connection is connected, charts update with every trade, and bid and ask follow Binance's best bid and ask. Market Analyzer columns, Chart Trader and every other window that shows prices work the same way.

SuperDOM and Level II

Open a SuperDOM or a Level II window (**New** → **SuperDOM** or **New** → **Level II**) and select a Binance instrument. The adapter keeps its own copy of Binance's order book: it starts from a snapshot of the book, applies every change Binance sends, checks that no change was missed, and reloads the book by itself if one was. The best price levels on each side are shown, as many as **Market depth levels** in the connection settings. Sizes are in USDT, like volume.

Bid	Ask	Last	Open	High	Low	Pr close	Net chg	Vol
80344.36	80344.37	80344.36						

Price	Depth	Size	Spread	Graph
80344.36 * 80344.37	1 * 1	84,447 * 620,572	0.01	
80344.35 * 80344.38	1 * 1	56 * 528	0.03	
80344.16 * 80344.39	1 * 1	622 * 612	0.23	
80343.54 * 80344.40	1 * 1	6 * 192,480	0.86	
80343.04 * 80344.41	1 * 1	6 * 173,652	1.57	
80342.89 * 80344.88	1 * 1	11 * 10,027	1.99	
80342.88 * 80345.47	1 * 1	1,593 * 577	2.59	
80342.87 * 80345.58	1 * 1	1,037 * 6	2.71	
80342.74 * 80345.73	1 * 1	6 * 321	2.99	
80341.59 * 80345.94	1 * 1	11 * 6	4.35	

ID	Price	Size	Time	ID	Price	Size	Time
80344.36	80344.36	84,447	04:52:23	80344.37	80344.37	620,572	04:52:22
80344.35	80344.35	56	04:52:22	80344.38	80344.38	528	04:52:22
80344.16	80344.16	622	04:52:19	80344.39	80344.39	612	04:52:20
80343.54	80343.54	6	04:52:20	80344.40	80344.40	192,480	04:52:20
80343.04	80343.04	6	04:52:19	80344.41	80344.41	173,652	04:52:19
80342.89	80342.89	11	04:52:21	80344.88	80344.88	10,027	04:52:20
80342.88	80342.88	1,593	04:52:21	80345.47	80345.47	577	04:52:19
80342.87	80342.87	1,037	04:52:19	80345.58	80345.58	6	04:52:19
80342.74	80342.74	6	04:52:21	80345.73	80345.73	321	04:52:19
80341.59	80341.59	11	04:52:19	80345.94	80345.94	6	04:52:21

Level II on BTCUSDT_SPOT. The best bid and ask levels of Binance's order book, sizes in USDT.

Grouping the book into bigger price steps

Binance quotes BTCUSDT spot in steps of 0.01, so every SuperDOM row is one cent. To see the book in bigger steps, change the instrument's **Tick size** in **Tools** → **Instruments**, for example to `1`, and connect again. The depth is then summed into one-dollar rows: bid prices are rounded down and ask prices up, so the two sides never overlap.

- The tick size also changes the price steps on charts of that instrument.
- The book reaches as deep as Binance's 1,000-level snapshot. With very large steps you may see fewer rows than Market depth levels.

Buy	Price	Sell
	2329.21	
	2329.20	
	2329.19	
	2329.18	
	2329.17	
	2329.16	
	2329.15	
	2329.14	
	2329.13	
	2329.12	
18205	2329.11	
	2329.10	
	2329.09	
	2329.08	
	2329.07	
	2329.06	
	2329.05	
	2329.04	
	2329.03	
	2329.02	

Rev	Flat	Close
Instrument	ETHUSDT_USDM	Quantity
Account	ATM Strategy	1
SimIOI	None	

SuperDOM on ETHUSDT_USDM.

09 Your license

The adapter checks your license each time the connection connects, using the **Activation email** in the connection settings. If the license can't be confirmed, the connection does not connect, a **License Issue** box explains why, and the Log tab shows the same message.

Message	What to do
Enter the email of your ninjacoding.net account in the Activation email field...	The email is empty. Enter it in Connections → Configure and connect again.
User not found.	No ninjacoding.net account uses this email. Check the spelling and use the email you bought the adapter with.
Machine ID in our system does not match your current machine ID. Please update.	The license is registered to another computer. Update the machine ID in your ninjacoding.net account; NinjaTrader shows it under Help → About .
The license server at ninjacoding.net did not answer...	Check your internet connection and firewall, then connect again.
Any other message	The license server explains the problem, for example an expired license. Contact NinjaCoding support if it isn't clear.

10 Good to know

The Binance connection is not in Connections → Configure.

Turn on Multi-provider mode (section 3) and restart NinjaTrader.

The connection turns red with “Unable to reach Binance”.

Check your internet connection and firewall. Binance blocks access from some countries; there the adapter can't load data.

The Binance Symbols window is empty.

Connect the Binance connection. The list loads on the first connect and is remembered after that.

A tick chart takes a while the first time.

The adapter is downloading the daily files; the Binance Downloads window shows the progress. The next load comes from disk and from NinjaTrader's database.

Today's ticks load again every time.

NinjaTrader asks for the current day on every load, and today's trades only exist in the Binance API, so they are fetched again. Past days come from disk.

“Binance has no tick archive for ...” in the Log tab.

Binance has no trade file for that day, usually because the symbol was not listed yet. The chart has no ticks for that day.

How far back does the history go?

To the day the symbol was listed on Binance, for example 17 August 2017 for BTCUSDT spot and 8 September 2019 for BTCUSDT USD-M.

Can I trade on Binance through the adapter?

No. The adapter is a data connection only; it does not send orders to Binance.

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