

# User Guide for Minswap Cardano in Hummingbot

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## Connecting to Minswap Gateway

### 1. Run the Command:

```
gateway connect minswap
```

### 2. Select Blockchain: Type `cardano`.

### 3. Choose Network:

- For mainnet: `mainnet`
- For pre-production: `preprod`

### 4. Confirm Node URL: Type `yes` to use the default node.

### 5. Enter Private Key: Provide your Cardano wallet private key (keep it secure).

### 6. Success Message: You'll see confirmation with your wallet address connected.

```
>>> gateway connect minswap
```

```
Which chain do you want minswap to connect to? (cardano) >>> cardano
```

```
Which network do you want minswap to connect to? (mainnet, preprod) >>> preprod
```

```
Do you want to continue to use node url 'None' for cardano-preprod? (Yes/No) yes
```

```
Enter your cardano-preprod wallet private key >>> *****  
*****
```

```
The minswap connector now uses wallet addr_test1vrvqa7ytgmp tew2qy3ec0lqdk9n94vcgwu4wy07kq  
p2he0srll8mg on cardano-preprod
```

## Checking Balance on Minswap Gateway

### 1. Run the Command:

```
gateway balance minswap_cardano_preprod
```

2. **Wait for the Update:** The gateway will fetch your wallet balance.

### 3. View Results:

- **Wallet Address:** Displays the connected wallet address.
- **Symbol:** The token (e.g., ADA).
- **Balance:** Available balance in the wallet

```
>>> gateway balance minswap_cardano_preprod
```

```
Updating gateway balances, please wait...
```

```
Connector: minswap_cardano_preprod
```

```
Wallet_Address: addr_test1vrvqa7ytgmp tew2qy3ec0lqdk9n94vcgwu4wy07kqp2he0srll8mg
```

```
Symbol      Balance Allowance
```

```
ADA 10168.2283    0.0000
```

## Adding a Token to the Gateway Balance Check

### 1. Add a Token:

Use the following command to add a specific token (e.g., MIN) to your balance check.

```
gateway connector-tokens minswap_cardano_preprod MIN
```

### 2. Verify the Balance:

Run the balance command to view the added token balance.

```
gateway balance minswap_cardano_preprod
```

### 3. Output Details:

- **ADA:** Displays ADA balance.
- **MIN:** Displays the balance of the added token (e.g., MIN).

```
>>> gateway connector-tokens minswap_cardano_preprod MIN
The 'gateway balance' command will now report token balances MIN for 'minswap_cardano_preprod'.

>>> gateway balance minswap_cardano_preprod
Updating gateway balances, please wait...

Connector: minswap_cardano_preprod
Wallet_Address: addr_test1vrvaq7ygtgmp2ew2qy3ec0lqdk9n94vcgwu4wy07kqp2he0sr1l8mg
  Symbol      Balance Allowance
  ADA         10168.2283    0.0000
  MIN 4990285607.0000    0.0000
```

## Creating a Script to Fetch Price of ADA-MIN from Minswap Liquidity Pool

### 1. Run the Command:

Use the `create` command with the following structure:

```
create --script-config amm_price_example
```

### 2. Provide the Required Inputs:

- **Connector, Chain, and Network:** Enter the connector (e.g., `minswap_cardano_preprod`).
- **Trading Pair:** Specify the pair (e.g., `ADA-MIN`).
- **Trade Side:** Choose `BUY` or `SELL` (e.g., `SELL`).
- **Order Amount:** Enter the trade amount (e.g., `100`).
- **File Name:** Provide a new file name for the configuration (e.g., `conf_amm_price_example_5.yml`).

### 3. Result:

A new configuration file will be created:

```
A new config file has been created: conf_amm_price_example_5.yml
```

### 4. Next Steps:

Use the generated configuration file (`conf_amm_price_example_5.yml`) to start the script

```
>>> create --script-config amm_price_example

Connector, chain, and network (e.g., minswap_cardano_preprod) >>> minswap_cardano_preprod
Trading pair (e.g., ADA-MIN) >>> ADA-MIN
Trade side (BUY or SELL) >>> SELL
Order amount for the trade >>> 100

Enter a new file name for your configuration >>> conf_amm_price_example_5.yml
A new config file has been created: conf_amm_price_example_5.yml
```

# Starting and Fetching Price of ADA-MIN from Minswap Liquidity Pool

## 1. Run the Script:

Use the `start` command to begin the script and fetch balance:

```
start --script amm_price_example.py --conf conf_amm_price_example_5.yml
```

## 2. Execution Process:

- The script will initialize and fetch price information for the specified trading pair (ADA-MIN in this case).
- Example output:

```
Status check complete. Starting 'amm_price_example' strategy...  
'amm_price_example' strategy started.  
Run 'status' command to query the progress.
```

## 3. Stop the Script:

To terminate the script, use the `stop` command:

```
stop
```

## Output:

```
Winding down...  
Canceling outstanding orders... All outstanding orders canceled.
```

## 4. Result:

The script fetches the price and balance details for the trading pair. Example log:

```
16:12:44 - script_strategy_base - minswap_cardano_preprod is not ready. Please  
wait...  
16:12:46 - script_strategy_base - Fetching price for ADA-MIN...  
16:12:46 - rate_oracle - Network status has changed to NetworkStatus.CONNECTED.  
Starting networking...  
16:12:47 - script_strategy_base - Price: 51641284.88, Amount: 100.00, rawAmount:  
5164128488.36
```

```
>>> start --script amm_price_example.py --conf conf_amm_price_example_5.yml
```

```
Status check complete. Starting 'amm_price_example' strategy...
```

```
'amm_price_example' strategy started.
```

```
Run 'status' command to query the progress.
```

```
>>> stop
```

```
Winding down...
```

```
Canceling outstanding orders...
```

```
All outstanding orders canceled.
```

```
16:12:44 - script_strategy_base - minswap_cardano_preprod is not ready. Please wait...
16:12:46 - script_strategy_base - Fetching price for ADA-MIN...
16:12:46 - rate_oracle - Network status has changed to NetworkStatus.CONNECTED. Starting ne
tworking...
16:12:47 - script_strategy_base - Price: 51641284.88, Amount: 100.00, rawAmount:5164128488.
36
```

## Trading on Minswap Liquidity Pool

### Create a Trade Script

To set up a trade on the Minswap liquidity pool:

```
create --script-config amm_trade_example
```

- **Connector, chain, and network:** minswap\_cardano\_preprod
- **Trading pair:** ADA-MIN
- **Trade side:**
  - BUY: Buy ADA using MIN.
  - SELL: Sell MIN to receive ADA.
- **Order amount:** Example: 10
- **Configuration file:** Example: conf\_amm\_trade\_example\_6.yml

Output:

A new config file has been created: conf\_amm\_trade\_example\_6.yml

```
>>> create --script-config amm_trade_example

Connector, chain, and network (e.g., minswap_cardano_preprod) >>> minswap_cardano_preprod

Trading pair (e.g., ADA-MIN) >>> ADA-MIN

Trade side (BUY or SELL) >>> BUY

Order amount for the trade >>> 10

Enter a new file name for your configuration >>> conf_amm_trade_example_6.yml
A new config file has been created: conf_amm_trade_example_6.yml
```

### Start the Trade Script

Start the script to execute the trade:

```
start --script amm_trade_example.py --conf conf_amm_trade_example_6.yml
```

- The script fetches the price, adjusts it with slippage, and executes the trade.
- Example output:

```
Status check complete. Starting 'amm_trade_example' strategy...
```

'amm\_trade\_example' strategy started.  
Run 'status' command to query the progress.

```
>>> start --script amm_trade_example.py --conf conf_amm_trade_example_6.yml

Status check complete. Starting 'amm_trade_example' strategy...

'amm_trade_example' strategy started.
Run 'status' command to query the progress.
```

## Result of the Trade

### 1. Fetching Price and Adjustments:

- Current price: 51641284.88
- Adjusted price (with slippage): 52157697.728800006

### 2. Balances Before Trade:

ADA: 10168.22826  
MIN: 4990285607

### 3. Executing Trade:

Transaction ID:

524276816558701e2ca48db7bab0dcead59515c6602d43ca139daf61b12d2b6d

- Status: Confirmed
- Block:  
14df4442a1c4ae1cdd1c799683fc3b424bfcfef4198b27fc4fc1d95d70980019
- Block height: 3062051
- Fees: 186973

### 4. Balances After Trade:

ADA: 10176.541287  
MIN: 4472134049

## Trading on Minswap Liquidity Pool with User Specified price

### Create a Trade Script with user specified price

To set up a trade on the Minswap liquidity pool:

create --script-config amm\_trade

- **Connector, chain, and network:** minswap\_cardano\_preprod
- **Trading pair(e.g, ADA\_MIN):** ADA-MIN
- **Trade side:**
  - BUY: Buy ADA using MIN.
  - SELL: Sell MIN to receive ADA.
- **Order amount:** Example: 100

- **Slippage buffer (e.g., 0.01 for 1%):** 0.01
- **Price of ADA-MIN in which you want to buy:** 40000498.35
- **Configuration file:** conf\_amm\_trade\_1.yml

Output:

A new config file has been created: conf\_amm\_trade\_1.yml

```
>>> create --script-config amm_trade

Connector, chain, and network (e.g., minswap_cardano_preprod) >>> minswap_cardano_preprod

Trading pair (e.g., ADA-MIN) >>> ADA-MIN

Trade side (BUY or SELL) >>> BUY

Order amount for the trade >>> 100

Slippage buffer (e.g., 0.01 for 1%) >>> 0.01

Price of ADA-MIN in which you want to buy. >>> 40000498.35

Enter a new file name for your configuration >>> conf_amm_trade_1.yml
A new config file has been created: conf_amm_trade_1.yml

>>>
```

## Start the Trade Script

Start the script to execute the trade:

```
start --script amm_trade.py --conf conf_amm_trade_1.yml
```

- The script fetches the price, adjusts it with slippage, and executes the trade.
- Example output:  
 Status check complete. Starting 'amm\_trade' strategy...  
 'amm\_trade' strategy started.  
 Run 'status' command to query the progress.

```
>>> start --script amm_trade.py --conf conf_amm_trade_1.yml
```

```
Status check complete. Starting 'amm_trade' strategy...
```

```
'amm_trade' strategy started.
```

```
Run `status` command to query the progress.
```

```
>>> status
```

```
Balances:
```

	Exchange	Asset	Total Balance	Available Balance
minswap_cardano_preprod		ADA	7618.723737	7618.723737
minswap_cardano_preprod		MIN	65069675048	65069675048

```
No active maker orders.
```

## Result of the Trade

### 1. Fetching Price and Adjustments:

- **Initial Attempt (14:15:55):**
  - Current Price: 40014498.35
  - Adjusted Price (with Slippage): 40414643.333500006
  - User Specified Price: 40000498.35
  - **Trade Status:** Conditions not met. Trade skipped.
- **Subsequent Attempt (14:29:38):**
  - Current Price: 39765640.1
  - Adjusted Price (with Slippage): 40163296.501000006
  - User Specified Price: 40000498.35
  - **Trade Status:** Conditions met. Executing trade...

### 2. Balances Before Trade:

- **ADA:** 7618.723737
- **MIN:** 65069675048

### 3. Executing Trade:

- **Transaction ID:**  
7f4e6ae23d215305f971d985ba2ce568a4903e0fa8949991bf39fd9047821f2c
- **Status:** Confirmed
- **Block:** Not Specified



- **Block Height:** Not Specified
- **Fees:** Not Specified

**4. Balances After Trade:**

- **ADA:** 7717.033684
- **MIN:** 61068665841

```
14:15:52 - rate_oracle - Network status has changed to NetworkStatus.CONNECTED. Starting network...

14:15:53 - script_strategy_base - Fetching balances for addr_test1vznd34ydghfh2aw8cnn5lgw90vpvlg82ngj30wzue0rw5jgct5m7d...

14:15:54 - script_strategy_base - Updated Balances: {'ADA': '7618.723737', 'MIN': '65069675048'}

14:15:54 - script_strategy_base - Fetching price for ADA-MIN...

14:15:55 - script_strategy_base - Current Price: 40014498.35

14:15:55 - script_strategy_base - Adjusted Price with Slippage: 40414643.33350000150501728058

14:15:55 - script_strategy_base - User Specified Price: 40000498.35

14:15:55 - script_strategy_base - Trade conditions not met. Skipping execution.

14:15:55 - script_strategy_base - Waiting for 1 minutes before next fetch...

14:29:36 - script_strategy_base - Fetching balances for addr_test1vznd34ydghfh2aw8cnn5lgw90vpvlg82ngj30wzue0rw5jgct5m7d...

14:29:37 - script_strategy_base - Updated Balances: {'ADA': '7618.723737', 'MIN': '65069675048'}

14:29:37 - script_strategy_base - Fetching price for ADA-MIN...

14:29:38 - script_strategy_base - Current Price: 39765640.1

14:29:38 - script_strategy_base - Adjusted Price with Slippage: 40163296.50100000150501728058

14:29:38 - script_strategy_base - User Specified Price: 40000498.35

14:29:38 - script_strategy_base - Executing trade...

14:29:42 - script_strategy_base - Polling transaction status for 7f4e6ae23d215305f971d985ba2ce568a4903e0fa8949991bf39fd9047821f2c...

14:29:42 - script_strategy_base - Fetching transaction, please wait...

14:29:47 - script_strategy_base - Fetching transaction, please wait...

14:31:12 - script_strategy_base - Fetching transaction, please wait...

14:31:12 - script_strategy_base - Transaction 7f4e6ae23d215305f971d985ba2ce568a4903e0fa8949991bf39fd9047821f2c confirmed successfully.

14:31:12 - script_strategy_base - Fetching balances for addr_test1vznd34ydghfh2aw8cnn5lgw90vpvlg82ngj30wzue0rw5jgct5m7d...

14:31:14 - script_strategy_base - Updated Balances: {'ADA': '7615.033684', 'MIN': '61068665841'}

14:31:14 - script_strategy_base - Trade executed successfully. No further trades will be made.
```

```
>>> status
```

Balances:

	Exchange	Asset	Total Balance	Available Balance
minswap_cardano_preprod		ADA	7717.033684	7717.033684
minswap_cardano_preprod		MIN	61068665841	61068665841

No active maker orders.

## Add Liquidity on Minswap

### Create a Add Liquidity Script with user specified amount

create --script-config liquidity\_bot

- **Connector, chain, and network:** minswap\_cardano\_preprod
- **Trading pair(e.g, ADA\_MIN):** ADA-MIN
- **Side (ADD/REMOVE) Liquidity:**
  - ADD: Add liquidity to minswap liquidity pool
  - REMOVE: Remove liquidity from minswap liquidity pool
- **Token to Add or remove from liquidity pool (e.g., ADA):** ADA
- **Token to Add or remove from liquidity pool (e.g., MIN):** MIN
- **Amount to Add or remove from liquidity pool (e.g., 100) :** 100
- **Configuration file:** conf\_liquidity\_bot\_Add.yml

Output:

A new config file has been created: conf\_liquidity\_bot\_Add.yml

```
>>> create --script-config liquidity_bot
```

Connector, chain, and network (e.g., minswap\_cardano\_preprod) >>> minswap\_cardano\_preprod

Trading pair (e.g., ADA-MIN) >>> ADA-MIN

Side (ADD/REMOVE) Liquidity >>> ADD

Token to Add or remove from liquidity pool (e.g., ADA) >>> ADA

Token to Add or remove from liquidity pool (e.g., MIN) >>> MIN

Amount to Add or remove from liquidity pool (e.g., 500) >>> 100

Enter a new file name for your configuration >>> conf\_liquidity\_bot\_Add.yml

A new config file has been created: conf\_liquidity\_bot\_Add.yml

## Start the Liquidity Script

Start the script to Add liquidity:

```
start --script liquidity_bot.py --conf conf_liquidity_bot_Add.yml
```

- The script calculates the amount1 required for trade, and fetch the wallet balance and if the wallet has sufficient balance then it executes the trade.
- Example output:
  - Status check complete. Starting 'liquidity\_bot' strategy...
  - 'liquidity\_bot' strategy started.
  - Run `status` command to query the progress.

```
>>> start --script liquidity_bot.py --conf conf_liquidity_bot_Add.yml

Status check complete. Starting 'liquidity_bot' strategy...

'liquidity_bot' strategy started.
Run `status` command to query the progress.
```

## Result of the Add Liquidity Action

### 1. Fetching Price and Calculations:

- *Network Status:* Connected.
- *Price MIN/ADA:* 2.499047341801E-8.
- *Price ADA/MIN:* 40,015,248.34176563113959021864.
- *Calculated Amount1 (MIN):* 4,001,524,834.

### 2. Balances Before Liquidity Addition:

- **ADA:** 7,717.033684
- **MIN:** 61,068,665,841

### 3. Executing Add Liquidity Action:

- *Liquidity Transaction Submitted Successfully:*
  - **Transaction ID:**  
e81430c082f6cdb1ee07bb12d4590c0583d8d6b9179482360be6  
63f62eba0995.

### 4. Balances After Liquidity Addition:

- **ADA:** 7,615.3426
- **MIN:** 57,067,141,007
- **Liquidity Pool Tokens (LP):** 1,142,683,909

```
14:34:23 - script_strategy_base - minswap_cardano_preprod is not ready. Please wait...

14:34:25 - script_strategy_base - Calculating amount1 based on price...

14:34:25 - rate_oracle - Network status has changed to NetworkStatus.CONNECTED. Starting ne
tworking...

14:34:26 - script_strategy_base - Calculated amount1: 4001524834

14:34:26 - script_strategy_base - Fetching balances for addr_test1vznd34ydghfh2aw8cnn5lgw90
vpvlg82ngj30wzue0rw5jgct5m7d...

14:34:28 - script_strategy_base - Updated Balances: {'ADA': '7717.033684', 'MIN': '61068665
841'}

14:34:28 - script_strategy_base - Fetching price from liquidity pool ADA-MIN...

14:34:28 - script_strategy_base - Price MIN/ADA: 2.499047341801E-8, ADA/MIN: 40015248.34176
563113959021864

14:34:28 - script_strategy_base - Executing ADD liquidity action...

14:34:31 - script_strategy_base - Liquidity transaction submitted with txHash: e81430c082f6
cdb1ee07bb12d4590c0583d8d6b9179482360be663f62eba0995

14:35:11 - script_strategy_base - Transaction e81430c082f6cdb1ee07bb12d4590c0583d8d6b917948
2360be663f62eba0995 confirmed successfully.

14:35:11 - script_strategy_base - Fetching balances for addr_test1vznd34ydghfh2aw8cnn5lgw90
vpvlg82ngj30wzue0rw5jgct5m7d...

14:35:13 - script_strategy_base - Updated Balances: {'ADA': '7613.342619', 'MIN': '57067141
007'}

14:35:13 - script_strategy_base - Liquidity flow executed successfully.
```

```
CPU: 5.0% Mem: 128.93 MB (200.50 MB) Threads: 18 Uptime: 0 day(s) 00:02:32
```

```
>>> gateway connector-tokens minswap_cardano_preprod LP
The 'gateway balance' command will now report token balances LP for 'minswap_cardano_preprod'.

>>> gateway balance minswap_cardano_preprod
Updating gateway balances, please wait...

Connector: minswap_cardano_preprod
Wallet_Address: addr_test1vznd34ydgfh2aw8cnn5lgw90vpvlg82ngj30wzue0rw5jgct5m7d
  Symbol      Balance Allowance
  ADA         7615.3426   0.0000
  LP 1142683909.0000   0.0000

>>> status

Balances:
      Exchange Asset  Total Balance  Available Balance
minswap_cardano_preprod  ADA    7615.342619    7615.342619
minswap_cardano_preprod  MIN   57067141007    57067141007

No active maker orders.
```

## Remove Liquidity on Minswap

### Create a Remove Liquidity Script with user specified percentage

create --script-config liquidity\_bot

- **Connector, chain, and network:** minswap\_cardano\_preprod
- **Trading pair(e.g, ADA\_MIN):** ADA-MIN
- **Side (ADD/REMOVE) Liquidity:**
  - ADD: Add liquidity to minswap liquidity pool
  - REMOVE: Remove liquidity from minswap liquidity pool
- **Decrease percentage for REMOVE liquidity (e.g., 50 for 50%):** 100
- **Enter a new file name for your configuration:** conf\_liquidity\_bot\_Remove.yml

Output:

A new config file has been created: conf\_liquidity\_bot\_Remove.yml

```
>>> create --script-config liquidity_bot

Connector, chain, and network (e.g., minswap_cardano_preprod) >>> minswap_cardano_preprod

Trading pair (e.g., ADA-MIN) >>> ADA-MIN

Side (ADD/REMOVE) Liquidity >>> REMOVE

Decrease percentage for REMOVE liquidity (e.g., 50 for 50%) >>> 100

Enter a new file name for your configuration >>> conf_liquidity_bot_Remove.yml
A new config file has been created: conf_liquidity_bot_Remove.yml
```

## Start the Liquidity Script

Start the script to Remove liquidity:

```
start --script liquidity_bot.py --conf conf_liquidity_bot_Remove.yml
```

- The script takes the L.P token from user wallet and calculates how much ADA and MIN user will get and executes the trade.
- Example output:
  - Status check complete. Starting 'liquidity\_bot' strategy...
  - 'liquidity\_bot' strategy started.
  - Run `status` command to query the progress.

```
>>> gateway balance minswap_cardano_preprod
Updating gateway balances, please wait...

Connector: minswap_cardano_preprod
Wallet_Address: addr_test1vznd34ydghfh2aw8cnn5lgw90vpvlg82ngj30wzue0rw5jgct5m7d
  Symbol      Balance Allowance
  ADA         7615.3426    0.0000
  LP 1142683909.0000    0.0000

>>> start --script liquidity_bot.py --conf conf_liquidity_bot_Remove.yml

Status check complete. Starting 'liquidity_bot' strategy...

'liquidity_bot' strategy started.
Run `status` command to query the progress.
```

## Result of the Liquidity Removal Trade

### 1. Fetching Price and Adjustments:

- Current Price (ADA-MIN): 40015248.34176
- Adjusted Price (with slippage): 40015248.34176

### 2. Balances Before Trade:

- ADA: 7615.342619
- MIN: 57067141007

### 3. Executing Liquidity Removal:

- Transaction ID:  
e2afa987ebf569178695c2e5ab8f7c2993cd49d307089cda8409002a016b3e3b
- Status: Confirmed
- Transaction Hash:  
e2afa987ebf569178695c2e5ab8f7c2993cd49d307089cda8409002a016b3e3b

### 4. Balances After Trade:

- ADA: 7813.340493
- MIN: 65057690701

14:38:44 - script\_strategy\_base - Fetching balances for addr\_test1vznd34ydghfh2aw8cnn5lgw90vpvlg82ngj30wzue0rw5jgct5m7d...

14:38:45 - script\_strategy\_base - Updated Balances: {'ADA': '7615.342619', 'MIN': '57067141007'}

14:38:45 - script\_strategy\_base - Fetching price from liquidity pool ADA-MIN...

14:38:45 - script\_strategy\_base - Price MIN/ADA: 2.499047341801E-8, ADA/MIN: 40015248.34176012393293111848

14:38:45 - script\_strategy\_base - Executing REMOVE liquidity action...

14:38:48 - script\_strategy\_base - Liquidity transaction submitted with txHash: e2afa987ebf569178695c2e5ab8f7c2993cd49d307089cda8409002a016b3e3b

14:38:48 - script\_strategy\_base - Polling transaction status for e2afa987ebf569178695c2e5ab8f7c2993cd49d307089cda8409002a016b3e3b...

14:38:48 - script\_strategy\_base - Fetching transaction, please wait...

14:40:29 - script\_strategy\_base - Transaction e2afa987ebf569178695c2e5ab8f7c2993cd49d307089cda8409002a016b3e3b confirmed successfully.



```
>>> status
```

Balances:

	Exchange	Asset	Total Balance	Available Balance
minswap_cardano_preprod		ADA	7813.340493	7813.340493
minswap_cardano_preprod		MIN	65057690701	65057690701

No active maker orders.

```
>>> gateway balance minswap_cardano_preprod
```

Updating gateway balances, please wait...

Connector: minswap\_cardano\_preprod

Wallet\_Address: addr\_test1vznd34ydghfh2aw8cnn5lgw90vpvlg82ngj30wzue0rw5jgct5m7d

Symbol	Balance	Allowance
ADA	7813.3405	0.0000
LP	0.0000	0.0000