# Smart Simple Bot

## Installation & setup guide

# Introduction

Smart Simple Bot (SSB) is an workaround to use simple bots in an composite way as used on 3commas on spot accounts. It will make you able to set active deals across your whole account. This greatly increases your potential as you can use for example 30 active bots with only 10 deals running. The purpose is that you can manage these settings.

The script is based on PHP with an MySQL database. This is done to keep it low profile as most webhosts support these settings. The script is tested on PHP version 7.4 but should support most version.

# General usage

SSB uses Tradingview alerts with an custom webhook. It sends the data to the script and handles them at a set interval (can be as close as 15 sec after alert triggered. All can be set up using Trading View alerts. This makes installation easier as you don't need special cronjobs or run deamons on your server.

# File structure

- Main directory
  - admin
    - Front-end to change the settings and add account
  - app
    - Core of the bot with all classes needed to run the script
  - alert_handler.php (script to receive the alerts form TradingView)
  - alert_processor.php (script to handle the received alerts and send to 3c)
  - install.php (script to install SSB)

# Installation

The installation of SSB is rather simple. Here an step by step order.

1. Upload all the files to your directory you want to use. Note , the alert_handler.php , alert_processor.php , install.php and admin should be publicly accessible.
2. Setup your DB configuration in /app/Config.php

```php
<?php
/**
 * Set your own credentials for mysql/db
 */
define ('DB_HOST' , 'localhost');
define ('DB_DBNAME' , 'your_db_name');
define ('DB_CHARSET' , 'utf8mb4');
define ('DB_USERNAME' , 'your_db_username');
define ('DB_PASSWORD' , 'your_db_password');
```

3. Run the script install.php. This should be pretty straight forward. You can choose an username and password and you're ready to login on yourdomain.com/smartsimplebot/admin/index.php
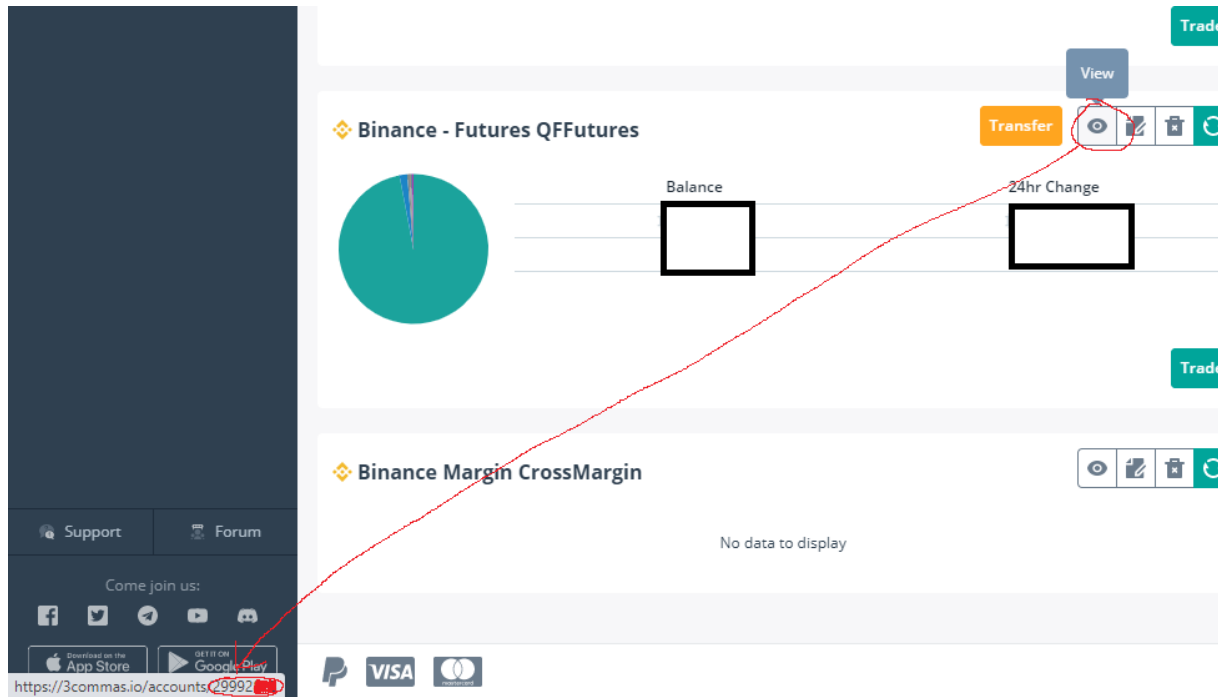
# Setup

All the setup is done in the admin panel or on TradingView to set the alerts.

## Insert an account

Adding an account is the first step. This uses the 3commas API credentials and a self chosen name.

**3commas account ID:** This number you can find under "My Exchanges" in 3commas and click or hover on the "eye" icon. It should be an (usually) 8 digit number



**Name :** Choose your name , doesn't have to be equal to your 3C account name

**API key :** Your API key from 3 Commas. If you haven't already an API key you can create one by clicking your username / email and choose API. Make sure you set the following permission for the API : BotsRead, BotsWrite, AccountsRead

**API secret :** Your API secret from your API key

## Check account

Once you have created an account you can check it by either click [Manage bots] or [Trading View alerts] . If you have set up bots on this account on 3 commas you should see those return in the page.

### Account overview

You can add several accounts to the same user and setup them different.

| Account ID: | Name: | Max deals: | BO/SO Size: | Manage bots: | Status: | TV Alerts: | Telegram: | Delete: |
|---|---|---|---|---|---|---|---|---|
| 2999 | Michael QuickFire | 5 | 15 | Manage bots | ⊘ Disable | Trading View alerts | Telegram settings | Delete |
| 2989 | Michael Main account (Long) | 10 | 30 | Manage bots | ⊙ Enable | Trading View alerts | Telegram settings | Delete |
| 3026 | Michael Main account (Short) | 1 | 15 | Manage bots | ⊘ Disable | Trading View alerts | Telegram settings | Delete |

**Account ID :** Your account ID on 3commas

**Name :** Your internal name

**Max deals :** Here you can set up the max deals the bot may use. Caution : This only counts the deals created on 3 commas. Any manual added trades on the exchanges or Smart Trades are not used to calculate max deals.

**BO/SO Size :** With this you can easily change the BO / SO size for all bots with keeping all other information like take profit etc. intact. This may take a while depending on the 3C APi load time

**Manage bots :** A more advanced setting, with this you can change all the bots on your account and change safety order all at once or setup per bot. Your set 3commas are loaded and only will be changed if you decide to save your settings. This may take a while depending on the 3C APi load time

**Status :** You can either enable or disable the bot. This will "kill" the script for this account but won't disable / enable bots on 3commas. If you simply want to turn of your bots you can disable this. Your alerts are still processed but no new deals will be opened
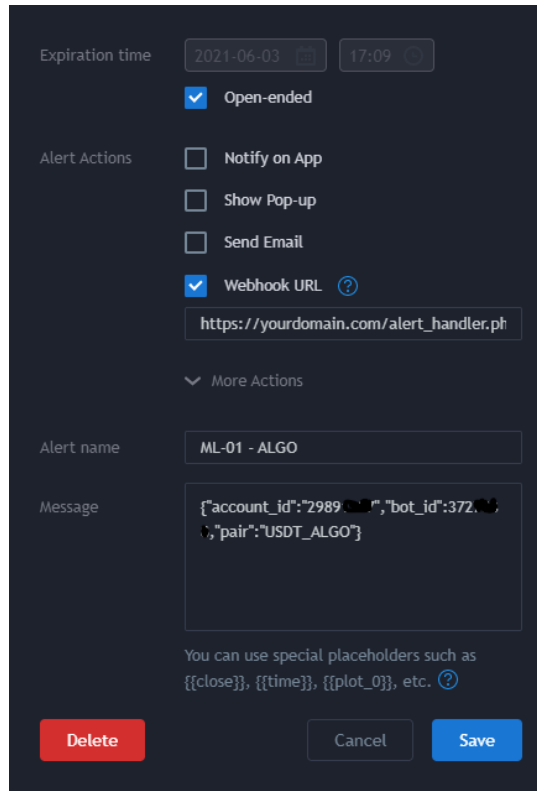
**TV Alerts :** Here you can find all the information to setup your Trading View alerts

**Telegram :** May not needed but you can create an alert to check the open deals and if they not exceed the max deals. This was added before the script was changed and this shouldn't happen anymore

**Delete :** Delete the account. You will only delete the account on SSB and not on 3Commas.

## Setting up your Trading View alerts

You can setup your Trading View (TV) alerts as you would set them up for 3Commas but with SSB parameters. **For testing purposes try to setup a few alerts. You may trigger them manually to see the result.**



**Webhook :** Set your webhook to the alert_handler.php. For example https://yourdomain.com/alert_handler.php

**Message :** You can copy the message from the [Trading View alerts] on your account. There are several type of messages :

- _Enable account :_ This enables account. You can use this to start your bots on a long signal for example.
- _Disable account :_ Opposite of enable account
- _Check open deals_ : This uses an Telegram setup to warn you if there are more open deals then you set. This will also trigger when you lower the Max deals and you still have deals open.

_Bot specific alerts :_ Use this to setup the actual triggers as you would do on 3C. You can copy / paste the JSON formula for convenience

After you've setup your alerts they should be added to the raw_tv_input table in your database. Make sure they are triggered in TV to see the result.

## Processing alerts

Until now the alers aren't being be processed. Therefore we need to run the script alert_processor.php in your main directory. The way I've set it up is to create an alert on TV which always triggers. For example you can use the condtion on ETH > 0$. This event will always trigger.

The only thing you need to set correct is the webhook and timeframe. This should point to https://yourdomain.com/alert_processor.php . In this example it triggers every 15 seconds. This means it will fire the script every 15 seconds an processes any alerts between that time. The alert name and message are not mandatory to process alerts.

When the alerts are processed you should see them in then table "log" with the corresponding account and bot id as well the message returned.

There are ofcourse other ways to run the alert_processor.php. You can set it up anyway you like. Depending on your accounts / alerts triggered 15 secs looks like the minimum time to process al alerts. Most of it depends on the speed of the 3C API which lags from time to time.

**If you have checked all these steps your SmartSimpleBot should be up and running and you're ready to set it on fire.**

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**Edit Alert on ETHUSDT, 15s**                    ✕

Condition          ETHUSDT, 15s, ... ▾

                   Greater Than                  ▾

                   Value        ▾    0.00         ▲▼

Options            Only Once         Once Per Bar
                   Once Per Bar Close   Once Per Minute

Expiration time    2021-06-15 📅    12:39 🕐

                   ☑ Open-ended

Alert Actions      ☐ Notify on App

                   ☐ Show Pop-up

                   ☐ Send Email

                   ☑ Webhook URL  ⓘ

                   https://yourdomain.com/alert_processor.

                   ⌄ More Actions

Alert name         _GENERAL - Alert Processor [NIET VERWIJD

Message            ETHUSDT, 15s, Heikin Ashi Greater Than
                   0.00

                   You can use special placeholders such as
                   {{close}}, {{time}}, {{plot_0}}, etc. ⓘ

Delete                        Cancel        Save

## Manage bots

On this page you can manage your bots. You can set (most) of the parameters you can also set on 3Commas but then in a more convenient way. If you change anything in the orange bar this setting will be changed for all bots. It will only be processed on 3Commas if click the button : "Save all changes".

## Telegram settings

To make use of the message to check open deals (see here) you have to create an Telegram bot to sent the messages. Follow the steps on : https://sean-bradley.medium.com/get-telegram-chat-id-80b575520659 to get the Telegram bot hash : (API Token) and Telegram Chat-ID and enter them under the Telegram settings.