Defichain VaultMaxi addon command center

```
Last updated: 13.02.2023 13:32
Last changed topic: version
Current version: v1.2
```

What it does

- it executes certain commands to ease usage of vault-maxi without the need of logging into your AWS account and change some settings
- it is being achieved by using your vault-maxis' telegram bot to exchange information. This makes it secure, as you are not directly communicating via an API, which could be an additional attack vector for a hacker
- it will check every minute through polling of new chat commands from you. Therefore chat id and your username are needed to make sure, the message which command center receives is from you and from nobody else
- `/help` is your best friend. It will show you all commands, which the command center is able to execute
- `/bots` will list all installed bots in the command-centers' region. Most of the commands can be executed by different bots. Please use the name from `/bots` command to access one specific bot instance. Example:
  - `/setRange 158-162` - only works if you have one vault-maxi instance installed
  - `/setRange maxi 158-162` - works for multiple vault-maxi instances installed and will select the default one (without an additional env. variable)
  - `/setRange maxi-test 158-162` - works for multiple vault-maxi instances installed and will select the one with -test inside the env. variable
- The command center has no access to your private key/seed. It can only change settings of vault-maxi.

Disclaimer / Warning

Do not use this tool if you don't already use vault-maxi. This is an optional extension of existing functionality, also called addon. If you set the wrong parameter, you risk liquidating your vault and losing the whole collateral.

This is not financial advice and anyone using this tool is doing so at their own risk. Never invest more than you are ok to lose. We are using it ourselves but can't guarantee that it's working flawlessly in every edge case. We are not responsible for any lost funds.

For additional safety we recommend using https://defichain-dobby.com/ to monitor your vault.

Follow the best practices for your AWS account which include using MFA and not using your root account to monitor the lambda.

Risks involved

The risks involved contain (but are not limited to) the following list. Do NOT use the tool if you do not understand their impact:
- Vaults on defichain and their liquidation
- Impermanent Loss
- Counterparty risk in the ecosystem
- Code bugs
- Ocean API downtime / serveroutage
- Ocean API timeouts
- loss of funds due to hacks of your account
- loss of funds when you upload custom build zips from a scammer

Pitfalls and other things to consider

- if manually migrated vault-maxi from v1.x to v2.0, you need to allow vault-maxi to access `/defichain-maxi/skip`. Otherwise your vault-maxi will not be working as intended, if /skip will be used
- if you are using a fallback server in another region, you will need to create a command center there too. Be aware that you should not use the same chat-id, as you might want to have a different range on your fallback vault-maxi
- do **NOT** replace your existing vault-maxi stack, create a new stack where you use the command-center template to install command-center alongside your vault-maxi. After installing the command-center you should have two stacks in your region:
  - vault-maxi
  - command-center
- for the telegram username parameter, do **NOT** use your display name. Instead use what is displayed on your telegram profile behind @. Example: Your display name might be `John` and your username is `@JohnDoe`, then please use `JohnDoe` for this parameter.

Donations

We are developing this thing in our free time. Noone is paying us for it. If you benefit from our work, it would be a nice gesture to give something back. Here are our DFI donation addresses:

kügi: `df1qqtlz4uw9w5s4pupwgucv4shl6atqw7xlz2wn07`

krysh: `df1qw2yusvjqctn6p4esyfm5ajgsu5ek8zddvhv8jm`

Since version 2.0, vault-maxi also has an auto-donation functionality. If the parameter is set to a value > 0, it automatically donates this percentage of any reinvest to us. We thank everyone for their donations to help fund our development and as a sign of appreciation of our work.

Support

Since this is our hobby-project we do not guarantee any support whatsoever. However there is a discord server for our community where you can ask questions. Link to our discord server
Issues can always be reported in the repository.
To get notified of new releases, we recommend you to subscribe to the repository. Any update will be an official release on github.

Setup

CloudFormationTemplate

The CloudFormationTemplate will create everything for you at once.
Just click this link and fill in your values. This template is only available for the regions **eu-central-1**, **us-west-1** and **ap-southeast-1** right now. Just change the region after you clicked the link:
 Link to prefilled Template

You can also use the template directly by going to
https://eu-central-1.console.aws.amazon.com/cloudformation/home?region=eu-central-1#/st

[acks](#) Create Stack > with new resources. and specify the template as an Amazon S3 URL: https://defichain-maxi-public.s3.eu-central-1.amazonaws.com/command-center-cloudtemplate.json

Please make sure to read and understand all the parameters of the Template. And set them all to values that make sense in your case.

Do **NOT** replace your existing vault-maxi stack. Create a new one.

What information will you need?

As you are already using vault-maxi, you should be already familiar with Telegram bots and even set one up already. You don't need to create an additional one, you can simply reuse the same bot-token for your command center.
- your telegram bots' token
- a chat-id to communicate with your command-center (recommended: to use groups)
- your telegram username

FAQ

Why are those commands not shown as normal telegram bot actions?

It is your bot and we can't set it up for you. Means if you want to use it like other telegram bots, you will need to configure it for yourself. One bad thing will be that every change from a command needs to be synced manually, which might be painful for some.

Are there more commands to be released in future?

Yes, we decided to remove the more complex ones due to some technical difficulty, which we need to overcome. If you want to track what is going on. We want to use github even more and make our development even more transparent. We can say that it is currently planned to be able to change lm-reinvest parameters too and even more importantly and that's the more complex one - changing LM pair and main collateral asset.

Why through polling and not with a web-hook?

It would be possible, no question. It was a security decision. If we would automatically create a web-hook to your telegram bot. It would also add an API gateway and everyone who would know your telegram bot name, would be able to send commands and if you know how this webhook does work and what payload telegram would send. It would be easy for an attacker to fake the payload correctly and suddenly be able to change some settings. This would not directly harm you or your vault-maxi, but it would be an unnecessary risk, which we didn't want to take.

My command-center is not responding. What can I do?

You will need to log into AWS and check if your setup is correct by using the same event like vault-maxi has. Execute your command-center with the following event check setup event. This will trigger a telegram message to your configured telegram chat. If you don't receive a telegram message and no error is displayed, please check your telegram settings on the command-center. There might be a typo in one of the settings. Or you have entered your Telegrams' display name instead of the username, which is with a leading @.

Event check-setup:
```
{
  "checkSetup": true
}
```

I had multiple command-centers within one AWS region. What now?

As of *version 1.0 rc2* we have changed the structure of command-center and fully implemented `/bots` command. Means that the command-center now can access all bots in one AWS region, without the need to set up multiple command-centers. You can safely delete your second command-center and just use one per region.