



# DFKAutoQuester - Installation guide

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This document was made to make it easier for non-tech people to install and use the bot properly, please read each sentence carefully and follow this guide step-by-step.

You can always contact me on twitter or discord for any help / questions →  
[@crypto\\_nawwa](#)

Because its a “self-hosted bot” (for security reason) you will have to install some developer tools (very lightweight) to make the bot works. I think it’s better that way because you are more in control of what you use.

Please do not share the source-code to someone else, this is meant to be used by you and you only, if you want your friends to have access, redirect them to me 😊

This guide was made for windows but should work for mac / linux -  
(I am mac user)

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## 1 - Tools

### 1.1 - NodeJs

The bot was coded using Typescript code language, for the code to work it needs a runtime environment, I used the very famous NodeJS.

Please download and install the LTS version from this link :

<https://nodejs.org/en/download/>

To verify that the installation worked, please open a windows terminal (type "terminal" in window research bar), and type this :

`node -v` → this cmd print the current nodejs version

The output should be something like `v16.13.2` → it's ok if you don't have same version, but it should be above 16 😊

## 1.1 - Visual studio code

We need a text editor to be able to properly modify the config file, just install VScode : <https://code.visualstudio.com/>

## 2 - Telegram bot

For the bot to communicate with telegram it need to have a bot token, generated by telegram itself.

### 2.1 - Get the Token Id

Open telegram, find a user called **@BotFather**, and open a conversation with him.

Use the **/newbot** command to create a new bot.

The **@BotFather** will ask you for a name and username, then generate an authentication token for your new bot.

Please keep this token somewhere, it will looks like this: `123456:ABC-DEF1234ghIkl-zyx57W2v1u123ew11`

### 2.1 - Get group message Id

Create a new chat group and add the newly created bot to this group.

Make the bot a group admin, to do this :

- Open the group chat
- Click on the avatar on the top right corner
- Click on **"Edit"** in top right corner also
- Go to **Administrator** → **add Admin**
- Add your bot as administrator for this group

Now that my bot is an admin, just send some random message in the group.

Now, you will have to copy past an URL in a new google tab to retrieve the group id.

URL to copy paste:

<https://api.telegram.org/bot<INSERT BOT TOKEN HERE>/getUpdates>

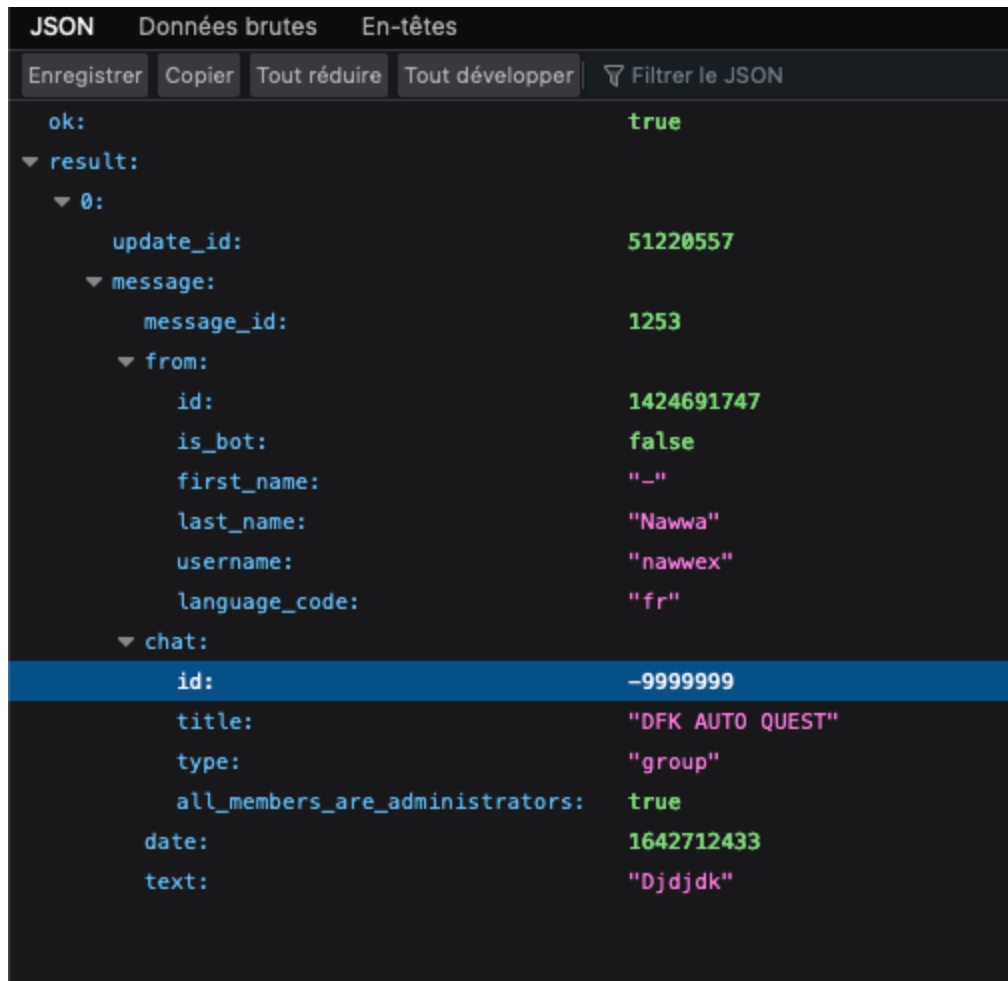
Use the Token ID, created in the previous section to replace **<INSERT BOT TOKEN HERE>**

The link should look like this :

<https://api.telegram.org/bot123456:ABC-DEF1234ghIkl-zyx57W2v1u123ew11/getUpdates>

This will call telegram API and display the group ID.

▼ Output looks like this :



Please keep it somewhere it's a negative number that looks like this : `-6459753344`

If it fails, please re-read carefully the link and make sure you did not forget anything, contact me if still fails.

### 3 - Source code

If you are here it means you have :

- ☐ NodeJs installed and working
- ☐ VisualStudioCode installed
- ☐ Telegram bot token id

☐ Telegram chat group id

Download the source code from the link I gave you.

Unzip the file and store the folder wherever you want.

Open a windows terminal at the location of the bot folder

If you don't know how to do that, see help here :

<https://www.howtogeek.com/659411/how-to-change-directories-in-command-prompt-on-windows-10/>

When you are in the project folder, type this command in the terminal :

`npm install` → It will install all code dependency

Now the source code is ready, we need to modify the config file, almost done ! 😊

## 4 - How to use & configure for quests

For the bot to work properly you need to create the `config.json` file.

Open the whole `DFKAutoQuester-standalone` folder with VisualStudioCode.

Once it's opened, you should see the list of files and folder on the left.

Navigate on `src/config` and you should see the `sample_config.json` file, this file contain the base config of the bot.

You have to create your own `config.json` file by right clicking the config folder → new file → `config.json`

When the `config.json` file is created, copy and past the content of `sample_config.json` into your newly created `config.json` file.

Your config.json file should look like this, this is where the 🌟 happens :

▼ See file

```
{
  "wallet": {
    "address": "",
    "encryptedWalletPath": "./w.json",
    "encryptedWalletPathPassword": "./secret.txt"
  },

  "telegramBotToken" : "",
  "telegramChannelId" : "",
  "gardensToClaim": [],

  "gas" : {
    "gasPrice": 30000000000,
    "gasLimit" : 15000000
  },

  "printGardenData": false,

  "pollingIntervalInstantQuest" : 40000,
  "pollingIntervalError": 60000,
  "pollingIntervalQuest" : 15720000,

  "autoSellMiningRewards": false,
  "autoStakeMiningRewards": false,

  "jewelSwap" : {
    "activated": true,
    "jewel" : "0x72cb10c6bfa5624dd07ef608027e366bd690048f",
    "preferredSwap": "usdc",
    "swapPools" : [{
      "name": "usdc",
      "pool" : "0xA1221A5BBEa699f507CC00bDedeA05b5d2e32Eba",
      "token" : "0x985458e523db3d53125813ed68c274899e9dfab4",
      "decimals": 6
    },
    {
      "name": "busd",
      "pool" : "0xE01502Db14929b7733e7112E173C3bCF566F996E",
      "token" : "0xe176ebe47d621b984a73036b9da5d834411ef734",
      "decimals": 18
    }
  ]
},

  "bankContract" : "0xA9cE83507D872C5e1273E745aBcfDa849DAA654F",
  "dexContract" : "0x24ad62502d1C652Cc7684081169D04896aC20f30",
  "gardensContract" : "0xDB30643c71aC9e2122cA0341ED77d09D5f99F924",
  "questContract": "0x5100Bd31b822371108A0f63DCf6b6594b9919Eaf4",
```

```

"heroContract": "0x5f753dcdf9b1ad9aabc1346614d1f4746fd6ce5c",

"fallbackRpcOnError": true,
"numberOfErrorBeforeFallBack": 2,
"maximumSwitchBeforeAddingDelay": 4,
"rpcs" : {
  "harmonyRpc": "https://api.harmony.one",
  "pocketRpc": "https://harmony-0-rpc.gateway.pokt.network",
  "fuzzRpc": "https://api.fuzz.fi",
  "hermesRpc": "https://rpc.hermesdefi.io"
},
"quests": [
  {
    "name": "Fishing",
    "activated": false,
    "heroTeam" : [{
      "name": "Team 1",
      "heroes": [],
      "minTeamSize": 0,
      "minStaminaRequired": 26
    }],
    "contractAddress": "0xE259e8386d38467f0E7fFEdB69c3c9C935dfaeFc"
  },
  {
    "name": "Foraging",
    "activated": false,
    "heroTeam" : [{
      "name": "Team 1",
      "heroes": [],
      "minTeamSize": 0,
      "minStaminaRequired": 25
    }],
    "contractAddress": "0x3132c76acF2217646fB8391918D28a16bD8A8Ef4"
  },
  {
    "name": "WishingWell",
    "activated": false,
    "heroTeam" : [{
      "name": "Team 1",
      "heroes": [],
      "minTeamSize": 0,
      "minStaminaRequired": 25
    }],
    "contractAddress": "0x0548214A0760a897aF53656F4b69DbAD688D8f29"
  },
  {
    "name": "JewelMining",
    "activated": true,
    "heroTeam" : [
      {
        "name": "Jewel team 1",
        "heroes": [11111, 11111],
        "minTeamSize": 2,
        "minStaminaRequired": 15
      }
    ]
  }
]

```



```

    }, {
      "name": "Jewel team 2",
      "heroes": [11111, 11111],
      "minTeamSize": 2,
      "minStaminaRequired": 15
    },
    {
      "name": "Jewel team 3",
      "heroes": [11111, 11111],
      "minTeamSize": 2,
      "minStaminaRequired": 15
    }
  ],
  "contractAddress": "0x6ff019415ee105acf2ac52483a33f5b43eadb8d0"
},
{
  "name": "GoldMining",
  "activated": false,
  "heroTeam" : [{
    "name": "Gold team 1",
    "heroes": [],
    "minTeamSize": 3,
    "minStaminaRequired": 26
  }],
  "contractAddress": "0x569e6a4c2e3af31b337be00657b4c040c828dd73"
},
{
  "name": "Gardening",
  "activated": false,
  "heroTeam" : [{
    "name": "TEAM JEWEL/LUNA",
    "heroes": [],
    "gardenId" : 1,
    "minTeamSize": 1,
    "minStaminaRequired": 25
  }],
  "contractAddress": "0xe4154B6E5D240507F9699C730a496790A722DF19"
}
]
}

```

This is a set of name / value pair, on the left it's the name, on the right it's the value.

```
"name" : "value"
```

You wont have to modify everything, here is a list of what you should change immediately, you can leave the rest as default.

```

"wallet": {
  "address": "PUT YOUR METAMASK WALLET ADDRESS HERE",
  "encryptedWalletPath": "./w.json",
  "encryptedWalletPathPassword": "./secret.txt"
},
.
.
.

"autoSellMiningRewards": false, // Write true for AUTOSELL mining rewards
"autoStakeMiningRewards": false, // Write true for AUTOSTAKE to BANK mining rewards
// Chose only one, you cannot stake reward and sell reward at the same time kek

"telegramBotToken" : "PUT TELEGRAM TOKEN ID",
"telegramChannelId" : "PUT TELEGRAM CHAT ID",
.
.
.

"gardensToClaim": [4, 6], // PUT YOUR GARDEN ID HERE or just [] if you don't know them yet

```

## 4.1 - Quest config 🎉🎉🎉

Each quest has an “heroTeam” list, you can add as many “heroTeam” as you want.

So you will basically only modify the quest values like `name` or `activated` and the `heroTeam` list by adding or removing them.

If you want to deactivate the quest, just put `"activated": false,` under the specific quest name.

▼ First example :

```

{
  "name": "JewelMining",
  "activated": true,

```

```

"heroTeam" : [
  {
    "name": "Team 1",
    "heroes": [3333, 4444],
    "minTeamSize": 2,
    "minStaminaRequired": 15
  },
  {
    "name": "Team 2",
    "heroes": [7777, 9999],
    "minTeamSize": 2,
    "minStaminaRequired": 15
  }
],
"contractAddress": "0xE259e8386d38467f0E7fFEdB69c3c9C935dfaeFc"
},

```

In will describe this example in readable language :

I want to launch a “JewelMining” quest with 2 teams :

- **Team 1** is composed of heroes id **3333** and **4444** , the quest will launch with theses heroes only if there is **2** of them available and only if all the heroes have a minimum of **15** stamina
- **Team 2** is composed of heroes id **7777** and **9999** , the quest will launch with theses heroes only if there is **2** of them available and only if all the heroes have a minimum of **15** stamina

Basically this quest config means the bot will launch jewel mining quest using heroes 2 by 2, and will queue the quest when they reach 15 stam. If you want the quest to launch hero one by one juste remove hero id and put **minTeamSize** to 1.

▼ Another example :

```

{
  "name": "Foraging",
  "activated": true,
  "heroTeam" : [{
    "name": "Team forager 1",
    "heroes": [4444, 5555, 6666, 8888, 00002, 9990],
    "minTeamSize": 6,
    "minStaminaRequired": 25
  }
]
}

```

```

    }],
    "contractAddress": "0x3132c76acF2217646fB8391918D28a16bD8A8Ef4"
  },

```

I want to launch a “Foraging” quest

- Team forager 1 is composed of hero id 4444 , 5555 , 6666 , 8888 , 00002 , 9990 .  
The quest will start with theses heroes only if the 6 of them are available and only if they all have at least 25 stamina.

▼ Another example :

```

{
  "name": "Gardening",
  "activated": false,
  "heroTeam" : [{
    "name": "TEAM Gardens JEWEL/LUNA",
    "heroes": [45323],
    "gardenId" : 4,
    "minTeamSize": 1,
    "minStaminaRequired": 25
  }],
  "contractAddress": "0xe4154B6E5D240507F9699C730a496790A722DF19"
}

```

I want to start a “Gardening” quest

- Team TEAM Gardens JEWEL/LUNA is composed of hero id 45323 . The quest will start with theses heroes for the garden id 4 , only if this hero is available and only if this hero has at least 25 stamina

To know your garden id just go on [vfat.tool](https://vfat.tool) → harmony → dfk and pick the number next to your gardens LP names, in the list.

With theses 3 examples you can start configuring your own quest config 😊.

Once your configuration is done, and you want to **start the bot**, open the terminal again and run :

```
npm start
```

After creating your password and private key, the bot should run and gives you this type of output ! 🚀

```
2022-01-18 22:02:04.558 INFO [DFKQquester src/quests/questManager.ts:66 QuestManager.<anonymous>] Checking for quests...
2022-01-18 22:02:07.437 INFO [DFKQquester src/quests/questManager.ts:64 QuestManager.<anonymous>]
round 0 completed quest.
round 2 running quest.
round 0 active quest.
2022-01-18 22:02:07.418 SILLY [DFKQquester src/quests/questManager.ts:67 undefined.<anonymous>] -> Running quest #1 to complete the January 19th 2022, 1:42:58 am
2022-01-18 22:02:07.419 SILLY [DFKQquester src/quests/questManager.ts:67 undefined.<anonymous>] -> Running quest #2 to complete the January 19th 2022, 6:02:58 am

2022-01-18 22:02:07.428 INFO [DFKQquester src/quests/questManager.ts:167 QuestManager.<anonymous>] Checking for quests to start...
2022-01-18 22:02:08.514 SILLY [DFKQquester src/quests/questManager.ts:182 QuestManager.<anonymous>] Hero [88578] is already questing on Jewel mining quest.
2022-01-18 22:02:09.562 SILLY [DFKQquester src/quests/questManager.ts:186 QuestManager.<anonymous>] Hero [88076] has 5 stamina and will be full at January 19th 2022, 6:10:23 am
2022-01-18 22:02:10.857 SILLY [DFKQquester src/quests/questManager.ts:186 QuestManager.<anonymous>] Hero [15114] has 5 stamina and will be full at January 19th 2022, 6:10:23 am
2022-01-18 22:02:12.871 SILLY [DFKQquester src/quests/questManager.ts:186 QuestManager.<anonymous>] Hero [47729] has 5 stamina and will be full at January 19th 2022, 6:10:23 am
2022-01-18 22:02:13.079 SILLY [DFKQquester src/quests/questManager.ts:186 QuestManager.<anonymous>] Hero [75496] has 2 stamina and will be full at January 19th 2022, 7:24:24 am
2022-01-18 22:02:14.574 SILLY [DFKQquester src/quests/questManager.ts:182 QuestManager.<anonymous>] Hero [74353] is already questing on Jewel mining quest.

2022-01-18 22:02:14.574 SILLY [DFKQquester src/quests/questManager.ts:182 QuestManager.<anonymous>] Trying to launch quests : [JewelMining, GoldMining]
2022-01-18 22:02:14.576 WARN [DFKQquester src/quests/questManager.ts:219 QuestManager.handleUnavailableHeroes] Can't start quest JewelMining with team Jewel team 1, [88076] unavailable.
2022-01-18 22:02:14.576 SILLY [DFKQquester src/quests/questManager.ts:218 undefined.<anonymous>] -> Hero [88578] is busy questing.
2022-01-18 22:02:14.576 WARN [DFKQquester src/quests/questManager.ts:219 QuestManager.handleUnavailableHeroes] Can't start quest JewelMining with team Jewel team 2, [74353] unavailable.
2022-01-18 22:02:14.577 SILLY [DFKQquester src/quests/questManager.ts:219 QuestManager.handleUnavailableHeroes] Can't start quest JewelMining with team Jewel team 3, [75496] unavailable.
2022-01-18 22:02:14.578 SILLY [DFKQquester src/quests/questManager.ts:222 undefined.<anonymous>] -> Hero [75496] has 1/16 stamina - Will be ready the January 19th 2022, 3:42:14 am
2022-01-18 22:02:14.578 SILLY [DFKQquester src/quests/questManager.ts:222 undefined.<anonymous>] -> Hero [47729] has 5/26 stamina - Will be ready the January 19th 2022, 6:02:14 am
2022-01-18 22:02:14.579 SILLY [DFKQquester src/quests/questManager.ts:222 undefined.<anonymous>] -> Hero [15114] has 5/26 stamina - Will be ready the January 19th 2022, 6:02:14 am
2022-01-18 22:02:14.579 SILLY [DFKQquester src/quests/questManager.ts:222 undefined.<anonymous>] -> Hero [88076] has 5/26 stamina - Will be ready the January 19th 2022, 6:02:14 am

2022-01-18 22:02:14.583 INFO [DFKQquester src/bot/bot.ts:53 Bot.<anonymous>] Waiting for 2.7 Hrs... - Bot will run again at January 19th 2022, 1:43:58 am
```

## 5 - Misc info & Telegram command

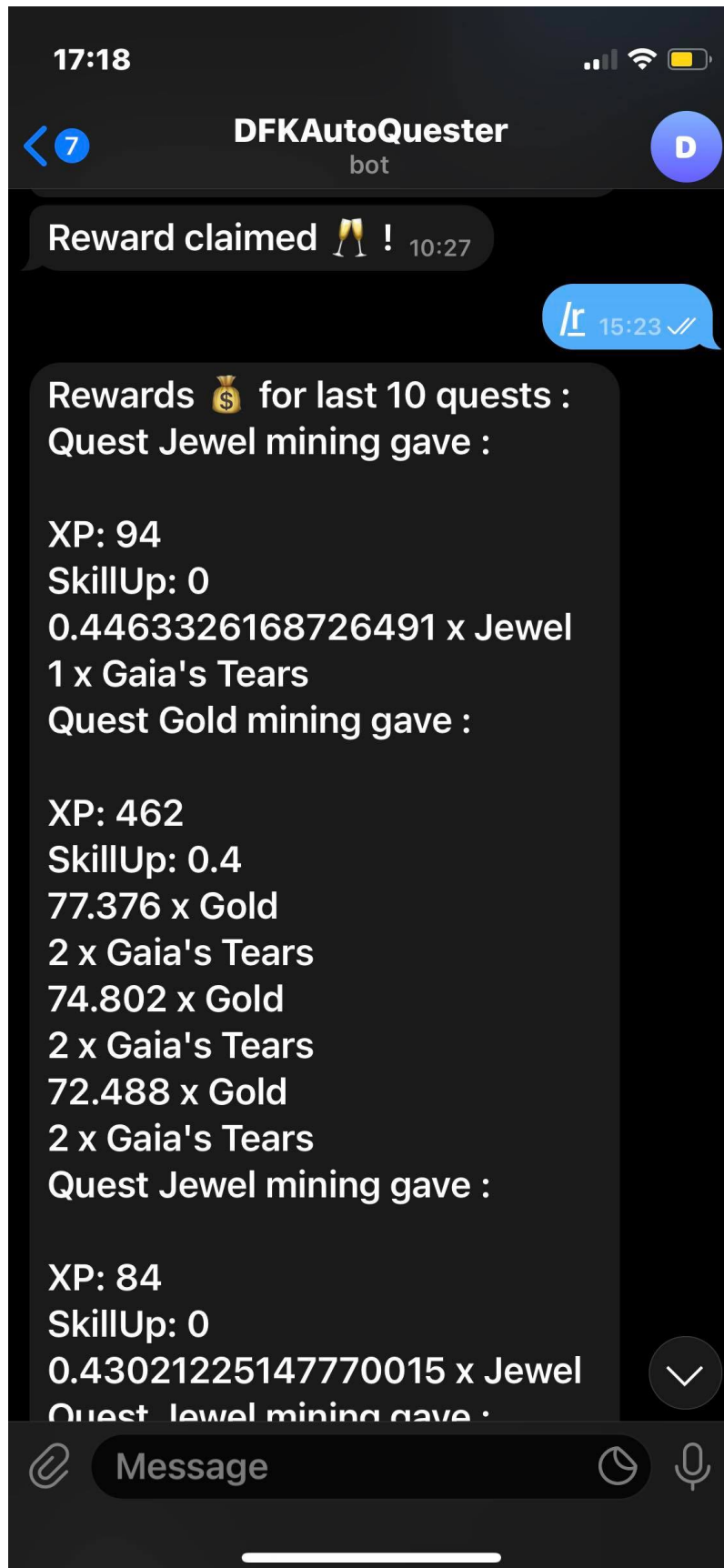
- You can restart the bot whenever you want, it will just ask you your password
- You can find available telegram command here, see image for example

Type /help in telegram to display ALL the available telegram command.

```
| /claim          -> Claim gardens rewards of garden ids present in config file
| /rewards or /r  -> Print the rewards of the last 10 quests
| /rewardsday or /rd -> Print the rewards of all quest for the last 24 hours
| /ping          -> Answer with "pong", to check if bot is still alive
| /rs            -> Print all the rewards since you called this command
| ..
| ..
| /help          -> Display all telegram rewards
```

There are many other telegram command but I'm lazy to write them here, just type /help


▼ Telegram example :



- This bot is in beta testing and some new features will be pushed, send me an email “Add me to list” if you want to be added to the list to receive them :) → [cryptonawwa@gmail.com](mailto:cryptonawwa@gmail.com)
- Write feedback here :

#### Trello

Your browser was unable to load all of Trello's resources. They may have been blocked by your firewall, proxy or browser configuration. Press Ctrl+F5 or Ctrl+Shift+R to have your browser try again and if that doesn't work, check out our troubleshooting guide .

 <https://trello.com/b/xqYocT0E/dfkautoquester-feedback>