# Grow Castle autobot manual 17.08.2025 (1.40.10)

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# Requirements

- 64-bit Windows OS
- 1920x1080 monitor. The script can still run on smaller monitors, but it wasn't tested. There may be problems with smaller monitors.
- Nox android emulator installed. The script was tested with NoxPlayer 7.0.6.2.
- Good computer performance. Grow castle should run at least 30 fps stable with required window size.
- Experience in game (reach 30k waves yourself at least).

## Installation

- Go to <u>releases list</u>, and download latest one. Do not download source code it's wrong archive.
- Unzip it to folder dedicated for script.
- Open **App** folder, and find **gca.exe**. Create desktop shortcut for it, and run. Do not remove it from its folder, and do not remove any other file from there.

# Help

If you have questions or troubles with setup or anything else – open a new <u>Discussion</u> or <u>Issue</u> on github page. You can also ask me directly, but it's better to allow other people to know about issue and how to solve it.

# Setup

## PC

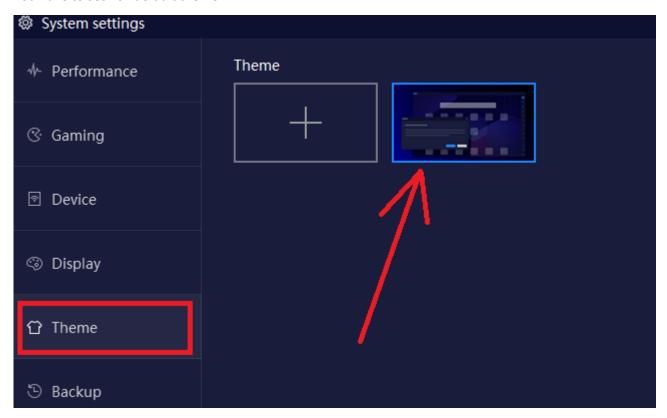
### Task bar

The task bar should be at the bottom of the screen.

## Nox

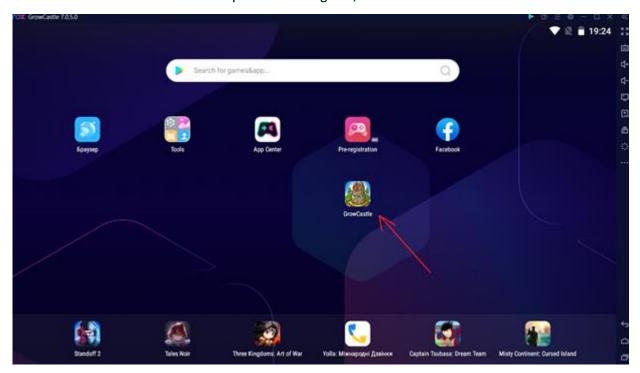
#### **Theme**

You have to set nox default theme:



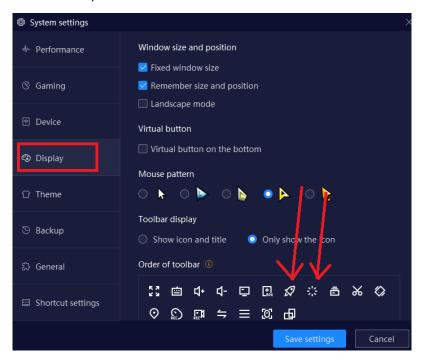
### **Grow castle position**

Grow castle must be here. When script restarts the game, it will click here:



### **Reset, Cleanup buttons positions**

Move Cleanup button and Reset button here:



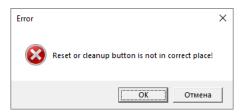
These buttons must be here (keep the side bar open always):



The script will check if these buttons are in right place when you start it.

### In case you have troubles with reset or cleanup buttons check

If for some reason the script doesn't allow you to run because of this error:



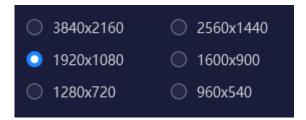
and you have them in <u>correct places</u>, then check if you have <u>default nox theme</u>. If everything is fine, and you still have this error, then you can disable this check. For this you have to expand the app horizontally, and next to <u>Window name</u> setting you will see <u>Disable reset and cleanup buttons check</u>:



Do this only if you have troubles with this check while these buttons are in correct place. After disabling it, run reset and cleanup tests and ensure that they work correctly.

#### Resolution

Set resolution to 1920x1080



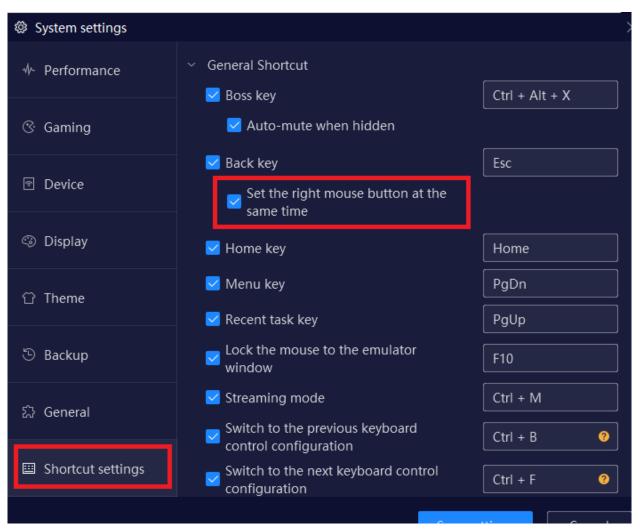
#### **FPS**

Set 60 fps



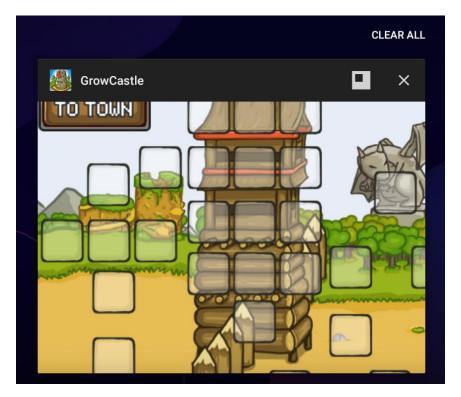
### Right click to move back

Check this checkbox to right-click to move backward (make sure that right click makes same thing as Esc button)



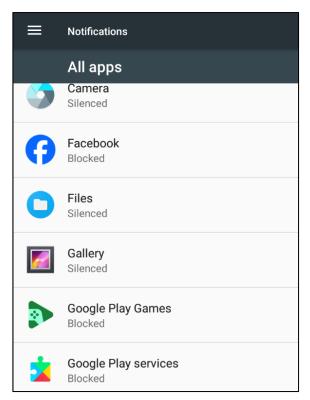
### **Recent apps**

Only grow castle must be in recent apps, otherwise script will not see clear all button when it restarts the game



### **Notifications**

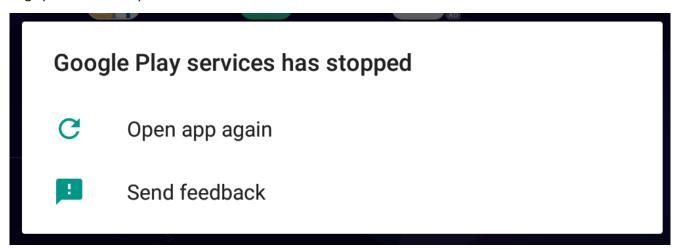
Block notifications from all apps, because it can ruin script's work



## Fix nox problems

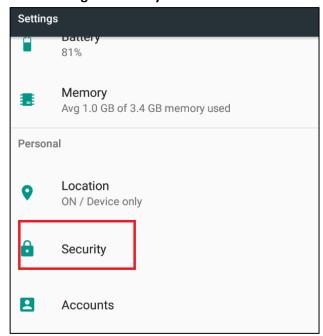
### Google Play services keeps stopping

If you have problem where you have "Google Play services has stopped" and it keeps stopping – it will be huge problem for script.

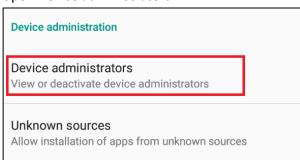


You will have to disable it:

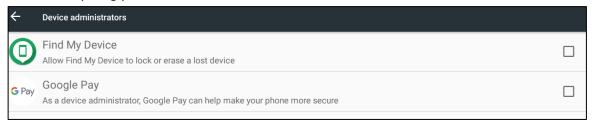
1) Go to Settings -> Security



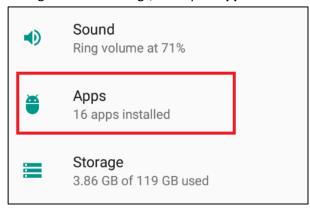
2) Open Device administrators



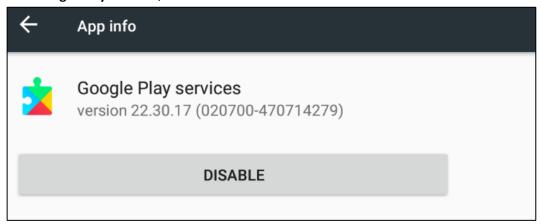
3) Disable everything you have there



4) Now go back to Settings, and open Apps



5) Find Google Play services, and disable it



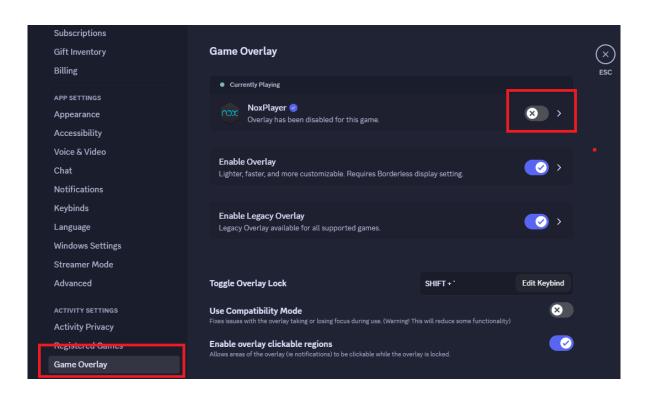
This will stop it from crashing. However, you won't be able to use "Load" function in grow castle, because Google Play services are involved there, and grow castle will crash.



You can just enable Google Play services temporarily for that.

### **Remove Discord overlay popup**

It doesn't block script from running, but can be annoying if you don't use it.



# **Settings description**

## **Settings tab**



#### **Version**

First that you see is **Version**, which is date and time when I built this exact version. This version is logged every time you start script.

### Save/Load



Settings are stored as json file. When you save – your current settings are written to file, and you can load them. Load works even if you have saved settings from previous versions, where some settings are missing (default value is set in this case).

Your current settings are stored in ".\App\clickerSettings.json" file. It is rewritten every time you change anything in settings.

You cannot save and load settings when script is running.

### Open in explorer



This button will open explorer at script's location, and select **App** folder, where script's executable file is.

#### Open log file



This button will open gc.log file with your default editor for \*.log files. If it doesn't exist – it will be created.

#### **Open in Github**



This button will open Grow Castle Autobot repository in Github with your default browser.

#### Open guide



This button will open .\gca\_guide.pdf with your default \*.pdf app. If it doesn't exist – you will see error about it.

#### **Control buttons**



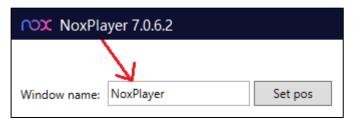
Next are **Start** and **Stop** buttons. You can use them, but it's better to use hotkeys that are also indicated there. You can change hotkeys in Advanced tab.

You can pause script by pressing **Start** button while it's running, or by **Start** hotkey. However, it might not work properly sometimes, because script uses stopwatches inside that are not stopped when you hit pause.

#### Window name



Here you have to write your Nox window name, without the version.



#### Set pos

After pressing **Set pos** button, the window should take the size and position which script needs to work properly.

If you write wrong name – you will see error.

It is important to make sure that there are no windows with the same name as nox, as it can grab the wrong window, because of this there may be problems.

When you try to move nox window after pressing **Set pos**, the window can be bugged slightly, and display like this:



This is just how nox reacts after resizing with commands. To fix it you can just maximize it, and restore back, or just don't move it after pressing **Set pos**.

Don't press **Set pos** when nox window is maximized, because inner window won't be resized with it.

#### **Build to play**

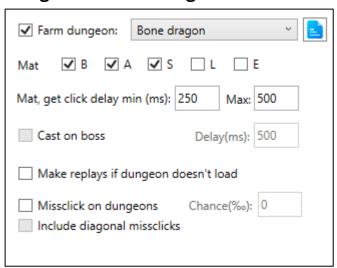


The number of the build that the script will play. The button on the right will open selected build.

All 5 builds are configured in <u>Build tabs</u>:

B1 B2 B3 B4 B5

### **Dungeon farm settings**



#### Farm dungeon

From the drop-down list you select a dungeon, if there is a checkmark, it will play there.

For dragons: whether to mat items of different grades.

For dungeons: whether to start cast heroes only when the boss came out with given delay.

**Note**: All runes will be collected from dungeons.

When farming dragons – will count item grades from dragons in <u>dungeon\_statistics.txt</u> file.

Mutually exclusive with: Skip waves, AB mode, AB (wave canceling), Replay last wave.

### Open dungeon\_statistics.txt



This button will open <u>dungeon statistics.txt</u> with your default \*.txt editor. Will create this file, if it doesn't exist.

#### Mat, get click delay

The script identifies item very fast, faster than you can read what stats item has, and if you set 0 there – it will get or mat item as fast as possible, which is not recommended. Set delay, the default one should be ok.

#### Make replays if dungeon doesn't load

If the internet is gone, and script cannot open dungeons, then if it's checked, then <u>until next captcha</u> the script will play replays. Then will switch back to dungeons.

If it's not checked, then **if dungeon panel doesn't open due to internet issues**, the script will wait for random time between 10 and 20 seconds, and will try again and will keep trying to open it infinitely.

If dungeons panel opens, but script is stuck right on "BATTLE" button, then it can indicate that inventory is full, or you are out of contracts. In this case script will make 3 attempts to start dungeon, and if it will fail 3 times in row, then will either start making replays (if checked), or will stop right there otherwise.

#### Missclick on dungeons

This settings is made just to simulate human behaviour. If you think that developer can see all clicks timings and coordinates (that could possibly be true), then you can check this. Then set chance of missclick (chance is measured in **per mille** (‰).

$$1\%0 = 0.1\%$$

For example, if you farm bone dragon, then if it decides to make missclick, then will click Red, Legendary, or Expert dungeon:



#### Include diagonal missclicks

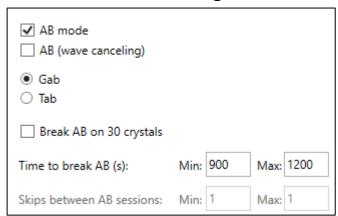
If checked, then will also missclick to Black dragon, or Intermediate dungeon:



You don't need to worry about if you don't have contracts while farming dragon. If it couldn't start dungeon – missclick is canceled, and next try it will definitely open dragon.

Under **Include diagonal missclicks** there is little extra space – This is space for kill time and kills per hour label. It will update every time when script entered dungeon successfully.

### **Autobattle mode settings**



#### AB mode

If enabled, the script will start auto battle, then wait random amount of seconds between **Time to break AB** min and max, then will wait for first cancel AB button, stop AB, then will make something between AB sessions, and start again. All the time the script will watch the game, and if the wave goes on for more than

max battle length, or something blocks it, then a restart is made, and the timer is reset, as if this time has passed. Then it will pass the captcha, if it comes out (and <u>Solve captcha</u> is enabled), and start AB again.

This is useful, because:

- You can add waves skipping: if you enable <u>Skip waves</u>, then script will skip every time when it's possible (based on skip settings)
- You can add upgrading hero/castle in between AB sessions
- Script will restart AB after you lost during AB
- Script can watch ad for speed between AB sessions
- Script will detect nox freezing, and will reset nox when needed

It can be combined with <u>Upgrade castle</u>, and <u>Upgrade hero for crystals</u>. In this case, will upgrade them in between AB sessions.

The script will stop if you are out of gold or time, but it's still very desirable to control it yourself.

#### **Break AB on 30 crystals**

If enabled, script will look on crystals count while AB is running. Once it sees that there is 30 crystals, it will drop the timer and wait for first cancel AB button, and stop AB. This is made so you can skip as many as possible. But you can disable Skip waves, and it will just stop and do what settings tell.

#### **Skips between AB sessions**

When **AB mode** and <u>Skip waves</u> are enabled – you can set **Skips between AB sessions**. This is amount of battles that script will start and wait for them to finish, then cancel, and start again. The purpose of these battles is to skip waves. If you set **1** to both min and max, then after each AB session script will start one battle, then finish it, and start next AB session, which results in exactly 2 battle starts with skips (60 crystals). If you set **0** on both min and max, then after AB session script will start next AB session, which results in **1** battle start with skip.

<u>Note</u>: When I say "with skips", it is not necessarily skip with oranges. It will decide to skip based on your <u>Skip</u> waves settings.

#### AB (wave canceling)

If enabled, then script will start wave, start AB, then wait for cancel AB button that appears between waves during AB, cancel AB and start next wave with AB. It will save time between waves in AB mode. Can be combined with <a href="Skip waves">Skip waves</a>, <a href="Upgrade castle">Upgrade castle</a>, <a href="Upgrade hero for crystals">Upgrade hero for crystals</a>.

You can set delays between clicks on AB button, switching to gab and start buttons to make it slower or faster in additional settings in Advanced tab.

<u>Tip</u>: you can enable **AB mode**, set 999999 to **Time between skips** min and max, and disable <u>Skip waves</u>, <u>Upgrade castle</u>, <u>Upgrade hero for crystals</u>. In this case, the script will just look for the game, and if game crashes, or you got defeats and AB stopped automatically, it will start AB again.

Warn: Of course, you need to enable Solve captcha, otherwise it will just stop, and this functions will be useless.

**Note**: If ab loses constantly, the script will constantly restart autobattle.

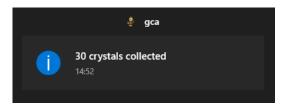
### **Notifications settings**

✓ Notification on 30 crystals		Interval (s):	10
✓ Play audio on 30 crystals		Interval (s):	10
<ul><li>Audio 1</li></ul>	O Audio 2		
Volume (%)	Volume (%)		
100	15		
<ul><li>Notification only</li><li>✓ Log 30 crystals c</li></ul>			

This section is made to notify user that game has collected 30 white crystals.

#### **Notification on 30 crystals**

This option is available only if you have <u>AB mode</u> or <u>Notification only mode</u> enabled. If enabled – the script will send desktop notification (toast) when you have 30 crystals collected.



Since crystals calculation happened 2 times per second, we have **Interval** that specifies time between notifications. If you have <u>AB mode</u> enabled – then current white crystals calculation will only happen while in battle. If there is Victory animation or wait between autobattles panel or something else – the background will be dimmed, and script will not count crystals then.

#### Play audio on 30 crystals

This option is available only if you have <u>AB mode</u> or <u>Notification only mode</u> enabled. If enabled – the script will invoke one of audio files when 30 crystals are collected. In .\App folder, you will see **Audio1.mp3** and **Audio2.mp3** files. By default, first is small notification sound, and second one is alarm sound, downloaded from internet. You can replace these files with another audios, but you need to make sure that they are placed inside of .\App\ folder, and have file name exactly "Audio1.\*" and "Audio2.\*". The type of file doesn't matter, but it must be one of supported <u>formats by Windows Media Player</u>. If you put video there – it will still run, but only video's sound will be there.

You select which audio to play when 30 crystals are collected. Again, script checks amount of crystals often so that it can catch exact moment of collecting 30 crystals, and you can't run audio for every detection, so you specify **interval** between playing this audio.

There are also settings for volume. This is additional volume multiplier so that you don't need to change whole computer sound volume when you want to make it more quiet.

**Note**: if audio file is missing – nothing will be played.

You can expand app horizontally, and there you can test notifications and audio playing:



### Notification only mode

This will enable separate script mode that won't do anything in game. Everything that script can do in this mode:

- Resizing nox if you modified it's size while it was watching
- Send notifications, play audios, make logs
- Calculating amount of white crystals

No clicks, no other checks are made by script in this mode. The purpose of this mode is to notify user that 30 crystals are collected. It will calculate amount of white crystals always, even when you have animation of victory, or another thing that overlaps crystals amount and makes it dimmed.

#### Log 30 crystals collection time

This works only with <u>Notification only mode</u>. If enabled, the script will write time of when 30 crystals were collected to <u>30crystalsTime.log</u>, compare it to previous time of collecting 30 crystals and write the difference between them to file. You can open this file with button next to it.

The script only writes first detection of 30 crystals, and there must be at least 5 detections of lower amount in row before to trigger it, which means that there must be <30 crystals for at least 5 seconds to make script write it to file.

**Note**: when you start script and you already have 30 crystals – the time will be logged in file.

### Skips settings



#### Skip waves

Skip the waves or not. If you are not skipping with oranges, the script will look on the white number of crystals to see if there are 30 crystals.

Mutually exclusive with: <u>Upgrade castle</u>, <u>Upgrade hero</u>, <u>Farm dungeon</u>, <u>Replay last wave</u>.

**Note**: The script doesn't identify exact number of white crystals you have, but correct results are these:

Actual amount	Script's output
0 - 9	0
10 - 19	10
20 - 29	20
30 - 99	30

This is more than enough to do all actions that script can do. You can test correctness of these calculations <u>in</u> <u>Test tab</u>.

#### Skip with oranges

If enabled, will ignore amount of crystals. It will always skip. If the oranges are over, the store will open once and script will disable skipping with oranges automatically.

### **Background mode**

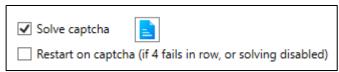


With it the script will not steal the cursor and you can overlap the nox with another window, but you can't minimize the nox. Minimized windows are not rendered, and script will see nothing. Also do not try to move nox window across screen while it is playing. The script will try to fix nox positions in case you changed it, but it's better to avoid it.

Warn: with background mode, Monitor freezing function won't work, even if it's enabled.

### Solve captcha settings

### Solve captcha



If enabled – the script will solve captcha that appears right after starting battle. After starting script – it will check if ".\App\gca\_captcha\_solver.dll" is present and returns correct values.

#### Open captcha.log



This button next to Solve captcha will open your current <u>captcha.log</u> file.

### Restart on captcha

If enabled, then in case if script failed on captcha 4 times in row or solving captcha is disabled – it will restart game, and then stop.

If disabled, then will stop without restarting.

The captcha solver works very good, and solves 99+% captchas. The only captchas where it failed had animation lags which caused script to detect tracking cup wrongly. Otherwise, it will solve every single captcha.

### **Upgrades for crystals**

#### **Upgrade** castle



Upgrade castle parts for crystals. For correct work, the upgrading parts must be on the floor specified in the **Floor** dropdown:



Mutually exclusive with: Upgrade hero for crystals, Skip waves.

You can test how tower upgrading works in Test tab.

<u>Info</u>: After click on floor, the tower that stands on that floor opens and it is upgraded while you have 10 or more white crystals, or until it has been upgraded 90 times in a row (if the tower has reached the maximum level). Tower upgrade is called every 10 battles.

**Info**: Script will stop when you reach 9999 level, and then will disable upgrading.

#### **Upgrade hero for crystals**

Upgrade hero for crystals	Slot:	5	V
---------------------------	-------	---	---

If enabled, will upgrade hero on selected **Slot**:



The hero that is upgrading should be in your build and at correct slot, because when you click on it – it will automatically open, and that's how script works.

The script will upgrade until you have random amount of crystals between 0 and 9. After reaching 10 crystals – it just randomly chooses how many to upgrade more.

Mutually exclusive with: <u>Upgrade castle</u>, <u>Skip waves</u>.

You can test how hero upgrading works in Test tab.

Info: Script will stop when you reach 9999 level, and then will disable upgrading.

### Ad watching settings

Ad for speed
Ad for coins
Ad during x3
Ad after skip only

#### Ad for speed

Watch ads for X3. It is called in the main menu of gc through store. Viewing ads is a separate algorithm. If the ad completed successfully, then the last time the ad was viewed will be written to the file <a href="mailto:timerx3spd.txt">timerx3spd.txt</a> - this is necessary to save the last time the ad was viewed after you stop script. Next hour the advertisement will not be checked. If the ad ends, it will not start and the script will automatically turn off viewing it.

#### Ad for coins

After the wave, there is a delay of 0.4 seconds, after which it is checked whether the advertisement popped up, and will watch it if it sees ad button.

#### Ad during X3

Whether to watch ads for coins during X3 with ads. You can turn it off to make the most of X3 from ads, or enable it if you need to watch ads for coins as quickly as possible.

#### Ad after skip only

Watch ads for coins only after skip 30 waves. There is more bonus gold, so there will be more gold from advertising. Cannot be activated without <a href="Skip waves">Skip waves</a>.

Info: After the start of the ad, the script waits for a couple of seconds, and simply presses the right click once a second until it sees one of the options for the pause button that I entered into its algorithm, or until the game opens. If the advertisement has not closed in 2 minutes, then a restart is made. I met only 3 options for pauses in advertising - and I entered them into the script. In fact, this is just checking the color of the pixels at the given coordinates, where the continue button usually always appears - always the same color. If you have another ads UI, you can set Fixed ad wait in Advanced tab to add constant wait after ad opening. Its also important to exit from ad by pressing "Back" button, because if the only way to exit it is click "X" button on screen, then script will not able to do it.

#### **Altars**

Heal altar	
Death altar	

#### Heal altar

It will hit the altar when there is low hp, and Smith is either not in the build, or is pressed already, if there is Smith, then it will press him first.

#### Death altar

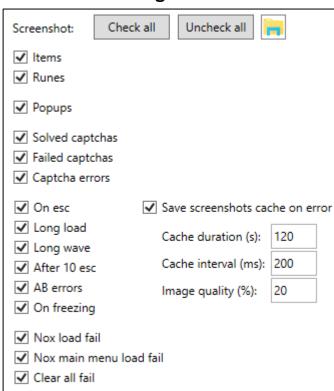
Presses the altar on the dragon and dungeon - when the boss appears. Works only there.

### Replay last wave



Make replays of the last wave. Mutually exclusive with <u>Farm dungeon</u>, <u>Skip waves</u>, <u>AB mode</u>, <u>AB (wave canceling)</u>.

### **Screenshot settings**



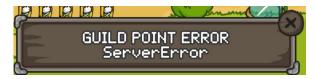
The script will save screenshot of some situations. By pressing button with folder image, it will open location where screenshots are saved.

#### Items / Runes

Before clicking "GET" script will save screenshot of item on screen. Only items that go to inventory are screenshotted. This is done so that you can safely show the screenhot to someone, and not be suspected of as script. The same is for runes. Screenshots are saved to folder ".\screens\\tems\\".

#### **Popups**

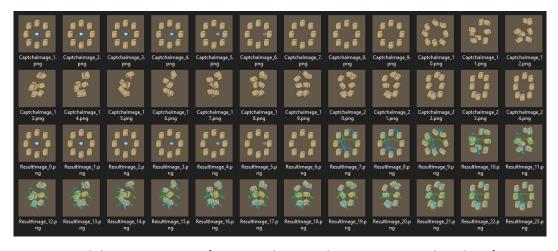
Popups are messages that appear on left down part of screen:



They all will be saved to ".\screens\Popups\". Mostly you will see reward from captcha or another useless things, but sometimes there may be something useful.

#### Solved captchas

If enabled, all captchas that are solved will be saved to ".\screens\Captchas\" folder. There you will see 24 original frames of captcha, and results, where it determined the most likely paths of all cups like this:



Keep in mind that average size of one captcha record is 4 MB. It is used to identify potentiall errors.

#### **Failed captchas**

If enabled, failed captchas will be saved to ".\screens\Failed captchas\" folder. It is better to enable it to have ability to identify error cause.

#### Captcha errors

If captcha started, and script didn't find crystal, then ".\screens\Captchas\Errors\Error\_N.png" screenshot will be saved. It can happen when you start script with already scrambled captcha, or you are running after future update, where captcha is changed.

#### On esc

If some unexpected panel is opened in game and doesn't go away for 4 seconds in row, this situation is non-standard and the script starts pressing the right click to close it. At this point, a ".\screens\Erorrs\OnEsc\_N.png" screenshot will be saved.

Right click is pressed until the sky opens, or 10 times - if after 10 right clicks did not open the sky - a screenshot is saved from the checkbox After 10 esc.

#### Long load

After clicking on gc from the nox menu when restarting the game, a stopwatch starts. If the gc menu has not opened in Gc loading limit amount of time, a ".\screens\Erorrs\LongGCLoad\_N.png" screenshot will be saved.

#### Long wave

When battle (any) is going for longer than <a href="Max battle length">Max battle length</a> amount of time, a ".\screens\Erorrs\LongWave\_N.png" screenshot will be saved.

If it's AB mode, then it's AB errors checkbox instead.

#### After 10 esc

If some unextected panel pops up, and script couldn't close it after 10 "back" clicks, a ".\screens\Erorrs\unknown\_N.png" screenshot will be saved.

#### **AB errors**

When you run <u>AB mode</u>, and switching to the next wave is going more than 10 seconds (Victory animation + 2 seconds timer before next wave), then ".\screens\Erorrs\AB\_Error\_N.png" will be saved.

If wave is going more than Max battle length amount of time, then ".\screens\Erorrs\AB\_Error2\_N.png" will be saved.

#### On freezing

If <u>Monitor freezing</u> is enabled together with <u>Background mode</u>, and script detects freezing, then ".\screens\Erorrs\Freezing\_N.png" will be saved before making reset. This is useful to identify wrong freezing detections.

#### Nox load fail

If after the reset nox didn't start in 5 minutes, a ".\screens\Erorrs\NoxLoadFail\_N.png" screenshot will be saved before script will be stopped.

#### Nox main menu load fail

Main menu is opened when closing game. If for some reason script couldn't close game. ".\screens\Erorrs\NoxMainMenuLoadFail\_N.png" screenshot will be saved.

#### Clear all fail

If script could not find "Clear all" button when closing game. This happens when you have multiple apps in recent apps. The game should be closed completely, so it is important to press "Clear all". If it couldn't press it, a ".\screens\Erorrs\ClearAllFail\_N.png" screenshot will be saved.

#### Save screenshots cache on error

The script is constantly taking screen of game while playing to decide what to do next. When it does it, it will save screenshots for some amount of time in memory (cache). If any of previous error (except of <u>Clear all fail</u> and <u>Nox main menu load fail</u>) happens, it will save current screenshots cache to ".\screens\Erorrs\Screen\_caches\Screen\_cache\_N\" folder.

Sometimes it is very important to know what happened before this error.

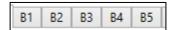
You can set parameters of caching:

• Cache duration (seconds amount) is how many time screenshots are saved before deleting from memory. For example, if you set 60, then cache will contain screenshots from previous 60 seconds, and delete screenshots that were taken more than 60 seconds ago.

- Cache interval (milliseconds amount) is how frequently screenshots will be saved. Script takes screenshot of game very frequently (sometimes 100+ screenshots per second), and you don't need to save them all. For example, if you set 200 there, then screenshots will be saved with 0.2 second gap.
- Image quality (percent amount) is quality of images in cache. Screenshot of game window has size of 1 MB on average, and cache can have a lot of images, so images are compressed to jpg format before saving them. If you set 100, then quality will be high, and screenshots will take more memory. 0 means maximal compression. Optimal value is 20%, which doesn't corrupt image, and saves 90% of memory. You can test different image quality values in Test tab.

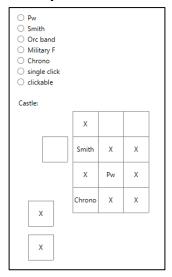
If you disable it, screenshots cache will still be working with this settings: **Cache duration** = 120 seconds, **Cache interval** = 300 milliseconds, **Image quality** = 10%. Screenshots cache will always be saved in case of <u>hint</u> <u>detection</u>, regardless of this setting.

### **Build tabs**



There are 5 tabs where you can customize build. When activating heroes, script will make different actions on different heroes.

#### **Example of a customized build**



#### Pw

Pure wizard. It should be on the center vertical. It is pressed last after all heroes.

#### Smith

It is pressed when you have low hp. It may not have time to press when the damage is too fast. There can be problem when the HP number is very big (has 11 digits hp value), and the checked pixel is overlapped with that number.

#### Orc band, Military F

if you specify them, they will be pressed once at the beginning of the wave (when <u>AB mode</u>, <u>AB (wave canceling)</u>, or manual battle start is enabled).

You can set them to be pressed on skip only in Advanced tab.

#### Chrono

Will be pressed first at the beginning of the battle.

#### Single click

Will be pressed once per battle. This is useful when you have summons that require single cast.

**Tip**: You can also use it in farming dungeons. If you kill boss by single cast – set all heroes to **Single click**, and you will not have problem with accidental hero opening when battle ends.

#### Clickable

Other heroes that should be clicked. They are pressed if they have a blue line above. Marked as "X".

#### **Scoped heroes**

It doesn't work on heroes that need a scope, such as Ice Mage. This is just waste of time and potential bugs source, so it would be better to remove all such heroes from build when using script to cast heroes.

### **Test tab**

Here you can test script's functions without having to start it and wait for specific moment.

#### Mouse tests

#### **Clicks test**



First test is to do left or right click at given coordinates. This will send message to nox window about click at this coordinates, and you have to set <u>Window name</u> correctly for it to work. Right click should do the same as "Back" button or Escape button press.

Default (50, 150) left click should click at **"To town"** button if you have gc opened and have correct window position and size.

#### Test mouse movement

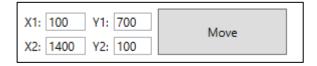


Test if mouse is moving properly. If you want to see it, you have to disable **Background mode**.

1	Move mouse in circle.
2	Move mouse in rectangle around heroes slots (if window has correct size).
3	Move mouse in square spiral.

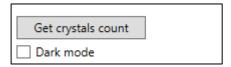
The script will run initialization code before test, so you have to setup everything correctly to make it work, even though it is not needed during test, otherwise you will get initialization error.

The next is test mouse movement from point to point:



This will move mouse from (X1, Y1) to (X2, Y2), using the settings that you have and algorithm that will work when you start script. That is, if you disable Simulate mouse movement setting – you won't see mouse movement, because it will be ignored. Also, if you enable <u>Background mode</u>, you won't see the movement, but it still will send messages about mouse movement to nox window.

### **Get crystals count**



This will call function that calculates current amount of white crystals. It also shows if you have oranges or not.

Dark mode is used when script upgrades hero or castle for crystals (because crystals number is dimmed).

It doesn't return the actual amount of crystals. These are correct results:

Actual amount	Script's output
0 - 9	0
10 - 19	10
20 - 29	20
30 - 99	30

### Restart, Reset, Cleanup



#### Restart

Will close gc and open it. You need to test it before first run, because there are many situations when restart is made.

#### Reset

Will press **Reset** button, then wait up to 5 minutes for nox to load, and then open gc. You need to set correct positions for **Reset** and **Cleanup** buttons (here).

#### Cleanup

Will invoke same code as will be invoked when Cleanup interval is elapsed. Will close gc, and will either make reset, or press **Cleanup** button, then wait 7 seconds, and start gc.

## Upgrade hero, Upgrade castle



Will invoke same function as will be invoked when <u>Upgrade hero for crystals</u> or <u>Upgrade castle</u> is enabled.

### Show game status

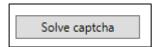


This will show where in game you are right now (if this position is defined in script). Positions that should be identified:

- Gc menu
  - o Empty game
  - Ad for coins panel
  - Hell buttons
  - Replay buttons

- In town
  - Forge position
- In battle
  - o Skip panel
- Paused
- Exit panel
- In forge
  - Whether is on top of forge list
- Lost on AB panel
- Captcha panel
- Hero panel
  - o Choose class panel
- In shop
- Item panel
  - o Rune panel
- In top
- In guild
- Save panel
- Player profile panel
- Nox main menu
- Popup

### Solve captcha



Will solve captcha. For this, you have to first open captcha.

#### **Screenshots tests**

#### Save window screen



This will capture nox window, and save ".\screens\Test\WindowScreenshot\_N.png" screenshot. Button with folder icon will open ".\screens\Test\" folder, and select created screenshot.

#### Save screenshot



This will capture complete screen, and save ".\screens\Test\CompleteScreenshot\_N.png" screenshot. Button with folder icon will open ".\screens\Test\" folder, and select created screenshot.

#### Save screenshot jpg



This will capture nox window, then compress image to jpg format with given image Quality, and save "".

The **Quality** is percent value. 0 means that image quality will be the worst, but image size will be minimized. 100 or more means simple jpg conversion.

The <u>screenshots cache</u> makes images compression with same algorithm before saving images to memory, and you can test how different images quality looks like and how many space single screenshot takes here.

#### **Getscreen benchmark**



This will capture nox screen 100 times in row, and show average time of capturing screenshot. It should take not more than 50 ms on average (with <u>correct window size</u>), but it still stable even if it is slow.

#### Online actions tests

<u>Online actions</u> are done before or after waiting between battles in order to simulate human behaviour. Here you can test them.

Online actions tests:
Open guild
Open random profile
Open guilds chat
Open guilds top
Open top
Open top season waves
Open my hell season
Open top hell season
Open top waves my
Open top waves all
☐ Craft stones
☐ Do save
Start

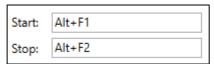
The logic that should happen for each action is described in Online actions. Here order of Open guild -> Open top -> Craft stones -> Do save is not randomized, but in runtime it will be randomized. Order of subactions will be randomized always.

Here the chance of each action is 100%.

### Advanced tab

Here you have settings that are rarely changed.

### **Hotkeys**

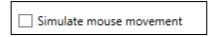


You have **Start** and **Stop** hotkeys that you can change. The hotkey can have zero or more modifier keys (**Ctrl**, **Shift** or **Alt**), and must end with non-modifier key (almost any key on keyboard). The hotkeys are registered globally, and will work when app is not focused. It might not work if selected hotkey is already registered by another app, but default **Alt + F1** and **Alt + F2** are not taken by anything in Windows by default.

You cannot set same hotkey for start and stop.

#### Mouse behaviour

#### Simulate mouse movement



If enabled, then script will simulate mouse movement to the point where it has to click. This will not be visible when you have <u>Background mode</u> enabled, but it still will send messages to nox window about mouse movement.

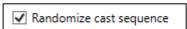
The generated mouse path is quartic bezier curve with intermediate points that are randomly positioned within a padded rectangle formed by starting and finishing points, where padding is 5% of distance between starting and finishing points. Thus, the path can have 0, 1 or 2 inflection points, depending on how intermediate points were placed.

The speed of movement also varies within a path randomly, but you cannot change mouse speed in settings.

There may be bugs due to time taken by script to move mouse to click position.

You can test mouse movement from point to point in Test tab.

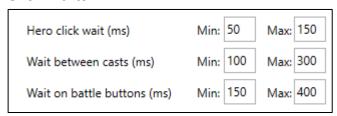
#### Randomize cast sequence



If disabled, then script will cast clickable heroes from left to right, then top to bottom.

If enabled, then script will start from random clickable hero, and select random neighbour hero as next to click. If there is no neighbour, then will check heroes on distance of 2 cells. This way the script will press all heroes randomly and choose one of the closest hero to previous one.

#### **Click waits**



All click waits are milliseconds amount of time that is chosen randomly between **Min** and **Max** every time.

- **Hero click wait** is wait after clicking hero in battle. Do not put very small value there, because the game might not respond if clicks are very quick. The default settings should be ok.
- Wait between casts is wait after clicking all heroes, before starting checking cycle again. Here you can set zeros if you want, and have no delay after making casts.
- Wait on battle buttons is waits after pressing "Battle", opening Autobattle panel, switching to gab, and before pressing Start. Fast clicks can ruin starting autobattle, so it's better to have some delays there. The default settings should be ok.

#### Waits and online actions between battles

Waits between battles		
☐ Ignore waits on AB mode		
+	Enable all	Disable all

This was only made to reduce script's efficiency and simulate human behaviour by adding random waits and some online actions between battles.

This is very important to add this to your setup to reduce probability of being banned (hopefully).

Click "+" button, and you will see a new slot:

Waits between battles	le	
✓ Wait 1		Х
Trigger min (s) 900	Trigger max (s)	1200
Wait min (s) 100	Wait max (s)	200
Online actions ▼		
	[	1 1

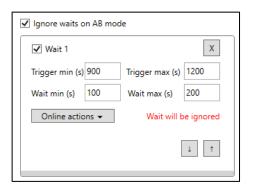
The checkbox "Wait N" specifies whether this slot is enabled. If you uncheck it, it will be ignored.

"X" button will remove it from list.

Up and down arrows will swap current slot with slot above or below.

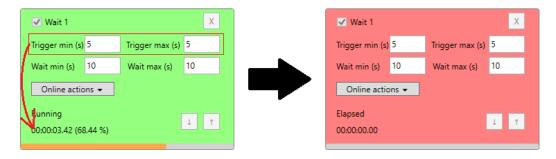
#### Ignore waits on AB mode

If you have <u>AB mode</u> enabled, then waiting between battles is meaningless, because running autobattle is essentially afk mode, where it is assumed that you are not playing, so we don't need to simulate human behaviour here. Only <u>waiting part</u> will be ignored in this case, <u>online actions</u> are still done. Read about them first.



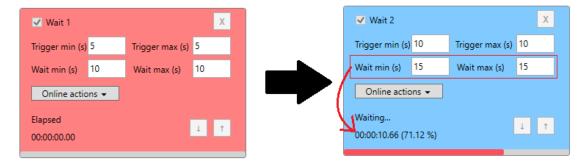
#### Trigger time min, max

Seconds value. When script will start first battle, it will initiate timer that will be elapsed after random amount of time between min and max values. Every time before starting next battle script will check if this slot is elapsed. It doesn't affect how script behaves while it is in "Running" state. It is just a timer.

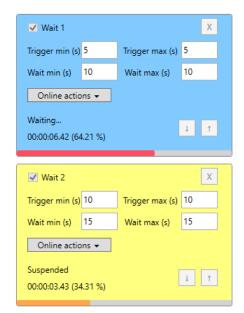


#### Wait time min, max

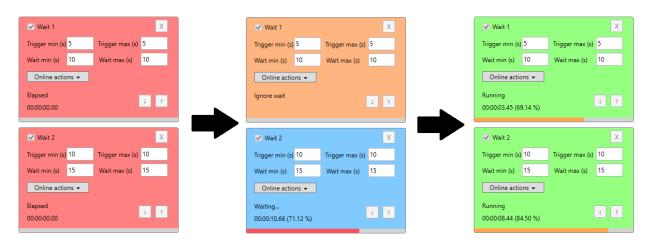
Seconds value. Before starting next battle, script checks all timers that you have there. If a slot is elapsed, it will take random time between min and max, and will just wait before starting next battle.



All other non-elapsed slots will be suspended while waiting for it:



If multiple timers are elapsed together, then script will choose the bottom one to wait for, and all elapsed timers above will be ignored, and will be reset after waiting:

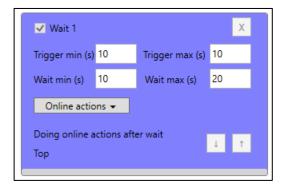


This means that when slot is triggered less frequently – it's better to put it lower on list.

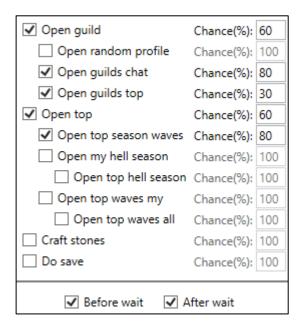
#### Online actions

Online actions are done before and/or after waiting between battles in order to simulate human behaviour. You can test online actions in Test tab.

For each action you can set chance of making it. It is made to randomize actions and not to do same things every time.



The order of actions is randomized.



#### Online actions delay

When making action – every time it will make random delay between 3 and 6 seconds.

#### **Guild actions**

Open guild		
Open random profile		
Open guilds chat		
Open guilds top		

When **Open guild** is not checked or was filtered out by chance – will not enter guild and will do nothing there, even if nested checkboxes are checked.

If it's checked – will enter guild, then wait. Then will do other selected actions there:

- Open random profile: for it script will scroll up guild members, and click in random place, and will open
  one of 6 player profile in there. If there was player and profile opened will wait, and close it. If profile
  was not opened will do nothing and go further.
- Open guilds chat: will open chat, wait, and go further.
- Open guilds top: will open guilds top, wait, and go further.

**Note**: guild actions order is randomized. It's not necessary that order will be same as checkboxes.

After these actions script will close guild.

#### Top actions

Open top
Open top season waves
Open my hell season
Open top hell season
Open top waves my
Open top waves all

When **Open top** is not checked or was filtered out by chance – will not enter top and will do nothing, even if nested checkboxes are checked.

If it's checked – will open top:



and if current open section is not top season waves (your places, not top 100), then will switch to it.

Then it will wait, and do other selected actions there:

- Open top season waves: will switch to top 100 in season waves and wait.
- Open my hell season: will switch to hell season and <u>wait</u>. The game will automatically open your places there.
  - Open top hell season: will switch to top 100 in hell season and <u>wait</u>.
- Open top waves my: will switch to overall waves top and <u>wait</u>. The game will automatically open your places there.
  - o Open top waves all: will switch to top 100 in overall waves top and wait.

Note: top actions order is randomized. It's not necessary that order will be same as checkboxes.

#### **Craft stones**



To craft stones, script will check where it currently is. If it's in gc menu – will switch to town. When it's invoked in runtime – it is guaranteed that it's invoked in gc menu.

Then script will automatically find where forge is. If you don't have forge there – will do nothing and will go back to gc menu.

Then will open forge, and if it's scrolled down — will scroll up. It's better to make it already scrolled up, because sometimes it can't scroll to top (probably because of weak scroll, or something else). It will not press any buttons without making sure that it is not on top on buttons list in forge.

Then will craft A stones, then wait random time between 1 and 4 seconds, and click craft S stones.

Then will close forge and go back to gc menu.

#### Do save



When in gc menu – will open save panel and do save. If there is popup or ad for coins – will close it.

#### Before/After wait



Specify whether to do these actions before or/and after <u>waiting</u>. At least one checkbox must be selected, and app will ensure this by not letting you to disable both.

### **Monitor freezing**



If you play for long time without resetting nox, it can start freezing. This will ruin script's work.

If enabled, then every time when script makes screenshot, it will store it in memory for 2 seconds. If it finds that there are same screenshots taken, then it will be considered as freezing, and reset will be done immediately, without closing gc. This is not desirable to do like this, but script cannot close gc properly when nox is freezing. After such reset in the middle of the game, gc can reset your progress, and you will have to make load. If script detects empty add, it will stop immediately. If you want to prevent nox freezing, you can make Cleanup more often and set to make reset instead of cleanup. This will reset nox properly with closing gc.

Freezing detection will be automatically disabled when script starts watching ad, closes gc, enters dungeons, solves captcha.

This works only when <u>Background mode</u> is enabled. Disabling <u>Background mode</u> won't automatically disable this checkbox, but you have to know that it won't work without it.

### Speedup on item drop

☐ I have x3	
✓ Speedup on item drop	

#### I have x3

If you have bought x3 speed, then if you want to speedup on item drop, you will have to click on speed 3 times instead of 2. With it, you cannot start script with <u>Ad for speed</u> enabled.

### Speedup on item drop

If enabled, then after beating dragon and waiting for chest to drop item, will make double (or triple) click on speed to speedup item drop animation.

### Max battle length



This is milliseconds value. If battle goes longer than this amount of time, the script will restart gc. This works in Dungeon farming, AB mode, Replays, manual battles.

### **Cleanup interval**



This is seconds value. After starting script, next cleanup time will be chosen by adding random amount of seconds between min and max to current time.

The time of next cleanup will be indicated below min and max textboxes:



Cleanup will be made between battles only.

You can test how cleanup is made in Test tab.

### Cleanup or Reset

Sometimes cleanup doesn't free memory taken by nox. Reset always frees memory.

You have to remember that sometimes gc can reset your game when you do reset, so you have to keep this in mind when enabling this. Script will close gc and wait for some time before clicking reset, so it should be fine on average.

### Do save before cleanup

This will try to save game before cleanup (To prevent losing progress in case of game resets). However, if you have troubles with internet at the moment of save, the script will not make save.

#### Do restarts



Sometimes ad disappears, and you have to restart game to make it appear again, or there are another reasons to restart gc. After starting script, next restart time will be chosen by adding random amount of seconds between min and max to current time.

**Note**: when you mat item, and do restart, the item will be back (the dust that you got for it will also be removed). Because of this, if you are farming dragon, and mat item of specific grade (for example, mat A items on Legendary dragon), you will see that you still get A items in inventory. That's because of this game's feature.

Next restart time will be indicated under **Do restarts** checkbox.



You can test how restart is made in Test tab.

#### Max restarts for reset



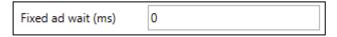
When script restarts game, it might encounter some problems. For example, multiple apps in recent apps, or troubles with opening nox main menu. If it tries to restart 4 times in row, and cannot do it, then script will make reset. You can test how reset happens in Test tab.

### Gc loading limit



This is milliseconds value. After opening gc script will wait until gc menu opens. If it takes longer than this amount of time, restart will be made. You can test how restart is made in Test tab.

#### Fixed ad wait



This is milliseconds value. If script cannot close ad after starting it because of pausing it, you can set fixed ad wait after opening it. After this wait, script will start trying to close it.

#### Pw on boss



This is milliseconds value. The script will press pw on boss.

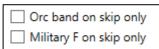
It works like this: when the wave reaches this point:



script stops activating pw, and when boss hp bar appears, it will be pressed after specified amount of milliseconds. Then there will be higher chance to press all heroes at once on the bosses, and the wave will end faster.

**Note:** this will work only when script plays waves manually, or makes replays.

## Orc band and Military on skip only



If checked, then script will press Orc band or military F only when script does skip 30 waves. It may be useful because if you press them and they give bonus wave, you won't get crystal in the end of the wave, and you also don't get crystals after skipping 30 waves.

#### **Collect mimic**



Mimic is collected when making replays, or playing manually.

### Other

### Manual waving

If you disable <u>Farm dungeon</u>, <u>AB mode</u>, <u>AB (wave canceling)</u>, <u>Replay last wave</u>, then script will play waves manually. This is the most dangerous way to play, because it's easily detectable from developer side.

### Changing parameters in runtime

The script cannot change its parameters when its running. You have to restart it. In this case, you will see that modified settings are marked with orange color:



### Red background

If you see that app has red background like this:



Then it means that script encountered some error while it was playing. Usually it's simple errors like error while restarting game or resetting nox. But it also could be serious problems like <a href="hint detection">hint detection</a>, and you might be banned already.

Go and check ".\screens\Errors\" folder, and sort screenshots by creation time, and see what happened there.

To reset background, you have to restart app. It was made to make you notice this.

# **Output files**

## gc.log

This is log file where each action done by script is written.

The line from log typically has this structure:

```
[dd.MM.yyyy HH:mm:ss.fff <caller line number>] [<log type>] message...
```

Log types that exists:

Letter	Туре	Description
I	Info	Regular message that appears most time
W	Warn	Unexpected, but fixable situation
E	Error	Needs inspection, it could be some bug
F	Fatal	Something that script cannot solve, and it will be stopped
U	User	User actions (start script, stop script etc.)
Q	Question	May be error, may be normal situation (like dungeons did not load)
0	Change settings	When script changes settings by itself (disable ad for x3, disable skip with oranges, switch to replays instead of dungeons)
N	Expected something, but didn't happen	For example, script waits for ad for coins to appear, but it doesn't
K	Expected and fixable	For example, game is overlapped by Victory animation
R	Restart, Reset	When restarting gc, resetting nox
Х	Fix something	Fix wrong window size (if you change in runtime), or close hero panel
M	Mistake	When about to do missclick in dungeon, or ignore mimic chest
S	Screenshot	When making screenshot
Н	Hint	Hint on top of game detected
Р	Popup	When popup detected
С	Captcha	While solving captcha
L	Online actions	When making online actions
-	Unreachable code	Somehow got into situation that should have been impossible to reach

## dungeon\_statistics.txt

The number of items of different grades from each <u>dragon</u>. The numbers must be on their strings, otherwise the script will not be able to read them. If there will be error while reading number from file – it will be replaced with it's default content.

## captcha.log

Each attempt to solve captcha is recorded there.

```
[+] [04.08.2025 11:19:19.812] [00:00:04.4432918] [6 => 0] Ratio: 1.60932 %
[+] [04.08.2025 12:10:48.725] [00:00:04.9608360] [5 => 3] Ratio: 1.45675 %
[+] [04.08.2025 13:04:14.937] [00:00:04.3545810] [2 => 1] Ratio: 1.15066 %
[+] [04.08.2025 20:29:16.869] [00:00:04.9842935] [5 => 4] Ratio: 1.31808 %
[+] [04.08.2025 22:16:07.204] [00:00:04.3077972] [4 => 5] Ratio: 2.15464 %
[+] [04.08.2025 23:43:41.588] [00:00:04.3324457] [2 => 7] Ratio: 2.07192 %
```

Log line in there looks like this:

[+/-] [<Date and time of attempt>] [<time solving>] [<start pos> => <finish pos>] [Ratio: <calculated chance of fail>] (Restarts: <amount of restarts to solve >)(if >0)

Position numeration:



## timerx3spd.txt

Here script will save last time of watching ad for x3 speed. If you want to erase information from there and make script check it even if it watched it recently, then you can delete this file, and it will be created automatically with default value.

## 30crystalsTime.log

This file is created in <u>Notification only mode</u> if <u>Log 30 crystals collection time</u> is enabled. In it you can see time of 30 crystals detection, with difference between current and previous detection time:

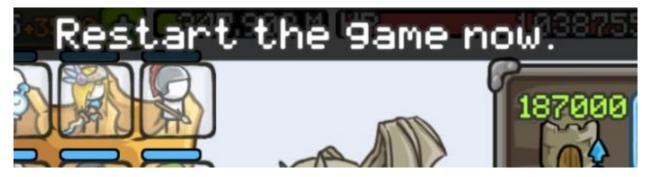
```
17/08/2025 09:39:05.603
17/08/2025 11:17:21.720 | 01:38:16.117
17/08/2025 14:51:03.355 | 03:33:41.635
17/08/2025 15:15:49.422 | 00:24:46.067
17/08/2025 15:17:06.787 | 00:01:17.365
```

## Hint detection

Once such a message popped up. At this time, the script was playing and saved the image. It restarted the game, but account was banned after this. We don't have any information about what happened before this in game, or after restart.



And this is more recent version (same situation as before: restarted game, but acc was banned, and we know almost nothing):



The script was improved to catch such hints, and if script detects it – it will save <u>screen cache</u>, even if it's disabled, and will save screenshots from what will happen next, even if all sceeenshot options are disabled.

The script will check this pixels:



if the top pixel is blocked by something, and the bottom one is free (has regular sky color), the script will consider it as a hint, and will restart the game after 7 seconds. Then, it will keep making screenshots for some time (maybe something will happen then). After it, the script will continue playing.

There was a moment when there was a warning about server maintenance that also appearen on top of game in the middle of playing. If this will happen again, then script will probably be not usable for some time.

**Note**: You can also trigger this by pulling status bar in nox (where you have time, battery charge, wifi...)

# **Problems solving**

### Error while calling gca\_captcha\_solver.dll

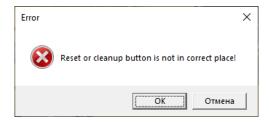
If you start script with Solve captcha enabled and see error like "Error while calling gca\_captcha\_solver.dll: file or one of its dependencies was not found", that means that you don't have gca\_captcha\_solver.dll or opencv\_world490.dll in ".\App\" folder. There are bunch of dlls that app needs to work. Some of them (maybe most) are not used, but deleting them can result in errors in runtime. Do not delete it.

If you are completely sure that everything is fine, and all files are at correct places, then you probably have 32-bit Windows. I did not try to run this on 32-bit OS, but **gca\_captcha\_solver.dll** was built for 64-bit Windows, so it probably wouldn't run.

Otherwise, I don't know where exactly the problem could be.

### Cannot start script because of reset and cleanup buttons check

If you see this error when trying to start script



Then follow instructions for this case.

### Cannot watch ad until the end

If script stops ads and cannot watch it to the end because of trying to exit it, it is probably because you have different ads UI that I didn't add to sctipt. To fix this, try to set <u>Fixed ad wait</u> parameter to 30 or more seconds, to make script try to close ad after 30 seconds after starting it.

Its also important to exit from ad by pressing "Back" button, because if the only way to exit it is click "X" button on screen, then script will not able to do it.

### Cannot exit pause or hero window

If script cannot exit pause window or hero window, and clicks in some random place on screen, check if you have right click to move backwards enabled.

### **Problem with starting battle**

If script keeps open exit window before start wave, or doesn't close skip window after starting wave, try to increase Waits on battle buttons min and max values.

### Problem with starting autobattle

If script cannot start autobattle correctly, try to increase Waits on battle buttons min and max values.