

Kool-Tech*Scripted objects for a better Second Life*

1. CORRADE SETUP**CORRADE SETUP**

(Last Updated: 2022-Oct-3)

Corrade is a multipurpose program, free to download and use, that gives you the ability to set up and run your own scripted agent (Second Life bot) directly from your own Windows or Linux-based PC. It's capable of receiving commands from an LSL script that tell it to perform various functions, such as send notices, teleport, or even restart a sim.

For this project, I've done the work of creating a scripted object (the Group Notice/IM Scheduler) that will use Corrade to send group notices and IM's. The rest of THIS document focuses on how to set up your bot to let it work with the scripted object. In the NEXT document, I'll explain how to set up the scripted object so that it can interact with your bot.

1. Set up your bot avatar

Before getting started, you'll need to create an avatar to use as your bot. You do this the same way you would create any other avatar: By going to <http://Secondlife.com> and clicking "Join Now", then filling out the appropriate information, choosing a username, choosing male or female, choosing an appearance, etc. Alternatively, you can repurpose an avatar account that you previously created.

After setting up the avatar, you'll need to log into the account with your viewer and join any groups you want it to belong to. You'll want to be sure and assign it the correct roles for each group — specifically, to give it the ability to send notices and join chat for each group.

For tracking purposes, it is helpful for you, and anyone else controlling the bot, to become friends with the bot. Then, on the bot's side, check the box to allow you to map its position.

Second Life also asks you to identify this account as a scripted agent. To do this, log your bot account into the <http://Secondlife.com> website, click on the "Account" link on the left-hand navigation bar, then click on "Scripted Agent Status". On the right, click the "Change" link and select "Scripted Agent." **IMPORTANT: Second Life imposes limits on notices for scripted agents, so if you plan on sending large volumes of notices per day, then skip this step.**

2. Choose a group to use for controlling the bot

As a security measure, all Corrade commands require you to specify a valid Second Life group along with a password you have assigned to that group. This ensures that untrusted scripts or avatars cannot send commands to Corrade unless they know the password you've assigned. This password is ONLY used for Corrade commands and nothing else.

BEFORE setting up Corrade, you must pick **ONE** of your groups (*whichever you consider to be your "main" group*), then come up with a random **password** to use with it. The password you choose should be 8 characters or less (for simplicity sake), and can be any combination of letters and numbers.

Also, you will need to look up the **KEY** of that group, because you will need to use it later when setting up the Kool-Tech Group Notice and IM Scheduler. Keys (*or UUIIDs*) are always in the form XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXXXX.

- If you're using a third-party viewer such as Firestorm or Singularity, the key is displayed at the top of the group information (profile) screen.
- If you're using the Second Life viewer, then rez the "Group Key Finder" from the folder "**Kool-Tech Setup Items A – Corrade**", set it to the group you want to check the key for, then click to get the key.

3. Download and Set Up Corrade

The latest version of Corrade for Windows can be downloaded by going to:

<https://corrade.grimore.org/download/corrade/win-x64/>.

(If you are using Linux or Mac, or are on a 32-bit version of Windows, go to

<https://corrade.grimore.org/download/corrade/> and navigate through the proper path for you.)

Scroll down to the bottom of the page and click on the last zip file, which will be the most recent version. (Should be called LATEST.ZIP)

- **ALTERNATE METHOD:** Instead of downloading from the Corrade website as described above, I've provided a zip file on my website that contains a recent version of Corrade that I have tested and know is working. You can download it from <https://kool-tech.me/corrade.zip> If you use this method, then please follow the slightly modified instructions at <https://kool-tech.me>.

Unzip the file into a folder named Corrade. DO NOT attempt to run the program directly from the zip file, it will not work!

You will need to extract the zip file into a folder that is directly attached to the drive it is on. So for example, if are extracting it to your C drive, do NOT put it into Program Files. The path to the file should be C:\Corrade. The same is true no matter which drive you are extracting it to.

- Be sure there is enough space on the drive, as Corrade will need somewhere between 1 to 2 gigabytes.
- If possible, put this folder on a drive *other than* your system drive (for Windows, something besides C:). However, if you do not have another drive available, then it should work fine on C:. Just be sure to set up the folder as C:\Corrade.

Go inside the folder and double-click on the application named **corrade**.

When you run it, you will see a command window with scrolling messages. Just minimize this window for now. There is a lot of “behind the scenes” stuff that gets dumped into this window, most of which can be ignored by ordinary humans like us.

Open up a web browser, and go to this address: <http://127.0.0.1:54377>

This will bring up the Corrade Nucleus signon page. *NOTE:* This webpage is being run off of your LOCAL PC, and it is being controlled by the Corrade application that you just started.

In the codeword field, type **nucleus** and press Enter to sign in.

On the next web page, click on the word Configure.

On the next web page, you should receive a pop-up message saying “**Welcome to Corrade! Please use the configurator to configure Corrade for the first time.**” Close the pop-up by clicking the Close button.

Enter the name of the bot. In the Firstname field, put in the username you used when you created the bot. In the Lastname field, put either **Resident** or the actual last name (if you’re using a legacy account or a recent account that you’ve paid to have a last name assigned). Then, enter the SL password for the bot.

Click the Groups tab (at the top left, next to Login).

Enter the **name** of the group you chose in step 2 above, along with the **password** you gave it.

Make sure that “**Cached members**” is set to **On**.

Go down to “Permissions”, and you will see four columns of checkboxes to the right of it. Check the following boxes: **interact, inventory, notifications, directory, grooming, land, system, group, movement, talk.** (*Make sure you’re NOT looking at the boxes across from Notifications*)

Now go down to “Notifications”, and look at the columns of checkboxes to the right of it. Check the following boxes: **group, invite, CAPS, message, alert, dialog, local, permission, sit, control, notice, teleport, inventory, objectim.** (*Not all of these are used by the message schedule. Some are used by the restart evader, and others are useful to have enabled for future apps.*)

Click the **Commit Configuration** button at the top right to complete the setup. You should receive a message saying the configuration has been updated. Your bot will go offline briefly during the update, but should return within about 30 seconds.

After your bot comes back online, you can close the **Corrade** application that is running.

This should be all you need to set up Corrade for use with the Group Notice & IM Scheduler.

NOTE: Some antivirus software may give warnings about some of the Corrade files. If you used the grimore.org link provided above to download the files, then you can safely consider them to be false positives. If this happens to you, simply add the Corrade folder as an exception for your antivirus software.

4. Install Corrade as a Service on Windows (recommended):

This step is optional, but is **highly** recommended. It will automatically keep Corrade running as long as your PC is running.

If you DON'T do this step, then you'll have to manually run `corrade.exe` anytime you want your bot to be active.

First, go to the `Corrade\contrib\windows` subfolder.

Inside of this subfolder, you will find a file named **install-corrade-service**.

The following steps are **optional**, and are *only* needed if you are setting up (or later plan to set up) a **second** Corrade bot:

1. Edit the batch file **install-corrade-service**
2. Under the "Configuration" header, find the line that reads:
`set "_serviceName=Corrade Resident"`
3. Change "Corrade Resident" to the name of your bot
4. Save changes to **install-corrade-service**

To install the service, run the batch file **install-corrade-service**. It will ask for permission to make changes to the device (i.e. ask for administrator privileges), to which you must answer Yes. When it finishes the command window will say **'Service "Corrade Bot" installed successfully!'** (Or, if you changed the name inside the batch file, then it will show your bot's name in the message.) Press Enter to close the window.

After doing this, your bot will start running automatically, and will continue running as long as your PC is running. (NOTE: There are times when you may need to stop or restart your bot manually. You can read about this in the notecard "How to stop and restart your Corrade bot", found in the Setup C folder (extras).

IF YOU ARE ON LINUX OR MAC: You will find a similar folder under `Corrade\contrib` for your OS. Follow the instructions given there to setup Corrade to run in the background on your system.

5. Test Corrade Setup in Second Life:

Go to Second Life, and make sure that your bot is logged in. If you followed step 4 above, then it should already be running in the background. If you did **not** install Corrade as a background service, then you'll need to start the Corrade application manually from within the Corrade folder.

- From the folder "**Kool-Tech Setup Items A – Corrade**", find the object "**Corrade Tester**" and rez it onto your land, or anywhere that you are able to rez and where scripts are enabled for you.
- From the folder "**Kool-Tech Setup Items A – Corrade**", open the notecard "**! config**".
- Between the quotes to the right of "**corrade =**", copy and paste the avatar key (UUID) of your bot.

- Between the quotes to the right of "**group =**", copy and paste the group key (UUID) of the group you have chosen to use for issuing commands (*from step 2 above*).
- Between the quotes to the right of "**password =**", copy and paste the password you came up with for the above group.
- Between the quotes to the right of "**home =**", enter the NAME of the Second Life region that will be the MAIN region where you plan to hold events. This will be useful when you are setting up group IMs, as you will see later.
- Between the quotes to the right of "**admins =**", enter the names of avatars besides yourself (separated by semicolons) that you want to be able to access the menu. You can wait and fill this out later if you want.
- Save the notecard.
- Drop the notecard into the Corrade Tester object.

If you entered the bot's key correctly in the notecard, then within a few seconds you will receive a message saying "**Click the object to test**". If not, delete the notecard in the object contents, correct the notecard in your inventory, and drop the corrected notecard back into the object. And again, make sure that your bot is online.

Click the object and wait. If your group key and password matches the Corrade configuration, then you'll get the message "**SUCCESS!**" and you'll know that your setup is correct. Otherwise, you'll get an "**ERROR IN CONFIGURATION**" message, and you will need to double-check the information in the notecard against what you entered for the Corrade configuration back in step 3.

Once you get a SUCCESS message, be sure to keep the completed "**! config**" notecard in a safe place in your inventory, so that you can use it with the scheduling tool. Then, move on to the next step.

6. Create an Inventory Drop Whitelist:

Notice attachments (whether they be landmarks, notecards, objects or textures) must be in the bot's Second Life inventory before they can be used in a group notice. While you can always preload the bot with the ones you will typically need, there will certainly be times when you will need to add one on the fly (for example, a new venue location).

The easiest way to do this is for you to simply drag and drop an inventory item from your inventory to the bot. However, you don't want random people to be able to give inventory items to your bot.

To give you control over who is able to send items to your bot, simply rez the object called "**Corrade Whitelist-Accept Inventory Offers**", then drop in the "**! config**" notecard you created in step 5. After a few seconds, it should tell you that it is waiting for inventory.

Initially, you will be the only one who can send items to the bot. If you want others to be able to do this, add their Second Life names (NOT display names) to the description field of the whitelist object, with commas separating the names. Then click the object and choose **RESET**.

7. Back Up Your Corrade Installation:

After setting up Corrade and making sure it is working (step 6), it's very important to make a copy of the entire folder so you can restore it in case of emergency. Ideally, put the copy onto a different drive, whether internal or external (e.g. a USB).

7a. Keeping Corrade Up To Date:

The creators of Corrade are constantly updating the software to fix bugs and add new features. You normally won't need to update Corrade, but if you choose to do so, all that you need to do is to backup your Corrade folder, then follow these instructions:

- Go to: <https://corrade.grimore.org/download/corrade/>
- Click on the link that best describes your computer's setup. If you're running on a Windows 64-bit PC, then choose **win-x64**.
- Click on the Latest.zip file at bottom and save it to your Downloads folder.
- Stop the Corrade service:
 - In the search bar of the start menu, type: **services.msc** then press Enter.
 - Scroll down in the list of Services until you find your Corrade bot name.
 - Right-click on the name, and choose **Stop**.
 - Leave the Services screen open, you will need to come back to it later.
- Unzip the zip file you downloaded earlier directly into your current Corrade folder, letting it replace any files with the same name. Your configuration will not be affected by this.
- Restart the Corrade service:
 - Go back to the Services screen from earlier.
 - Right-click on the name of your bot, and choose **Start**.
 - Close the Services screen.

Very Important Note: If you're updating to Corrade version **11.0.236.303** or later from an **earlier** version, then you'll need to go into your Corrade folder and perform these additional slightly complicated steps:

- RENAME the file **Configuration.xml** to **CorradeConfiguration.xml**.
- Open the file in a text editor such as Notepad.
- Change each occurrence of the word "**Configuration**" (case sensitive) to "**CorradeConfiguration**". There should be exactly 4 changes. (Do NOT change the phrase "corrade-configuration-schema".)
- Save the changes.

If you have a file named **Nucleus.xml** (which is unlikely), you'll need to rename that file to **NucleusConfiguration.xml**, edit it, change 4 occurrences of "**Configuration**" to "**NucleusConfiguration**", then save that file.

I (Francisco Koolhoven) will be your main contact for questions or issues with Corrade as it relates to this product. Please IM me in Second Life if you need to.

7b. Managing Your Corrade Bot:

If you installed your bot as a Service, it will run continuously in the background as long as your PC is turned on. However, there are times that you will need to shut it down temporarily, or do a restart (shut down and start it again) when it fails to work properly. To do this, you will need to download three additional batch files and place them onto your desktop, or anywhere else that allows you to access them easily. Click the following links to download:

- [restart-corrade-service](#)
- [stop-corrade-service](#)
- [start-corrade-service](#)

IMPORTANT: In Step 4 earlier (where you installed your bot as a Service), if you followed the optional steps to rename the Service to your bot's name, then you will need to follow the SAME STEPS with EACH of these three files. That is, you will need to edit each batch file and change the line

```
set "_serviceName=Corrade Resident"
```

to use the name of your bot instead, then save the changes.

8. Set Up the Scheduling Tool in Second Life:

Now that you have Corrade up and running, go to the document [2. SCHEDULER SETUP](#) to continue the setup process.

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