Absolute Raid Bot: Setting Up the Discord Bot

Version 1.0.6 · for Absolute Raid Management 0.2.0 and Absolute Raid Companion · Absolute Gaming LLC

This guide takes a guild from nothing to a working DKP bot in Discord. You do it once. After that, **everything happens in Discord**: officers never need to sign in to the server the bot runs on to run raids or manage DKP.

The other guides:

Guide	For
Setting Up Azure	Hosting the bot 24/7 on a small Microsoft Azure VM
Admin Registration and Account Recovery	The owner and officers: registering with two-factor, signing in, recovery codes
Raider Registration and Account Recovery	Raiders: registering a character, new Discord accounts
Admin Guide	Officers: every `/dkpadmin` and `/dkpmanage` command
User Guide	Raiders: every `/dkp` command
Importing and Exporting Data	Snapshots, raid imports, the DKP database, backups
Raid Management and Companion Protocols	Addon authors: the in-game message protocol

1. How the pieces fit

Piece	Who uses it	What it does
Absolute Raid Management (addon)	The raid leader in game	Runs the raid: sealed bidding, reserves, attendance, presence checks
Absolute Raid Companion (addon)	Every raider in game	Live DKP, reserves, private bids, answers presence checks
Absolute Raid Bot (this)	Officers and raiders in Discord	The guild's DKP book between raids: registrations, standings, adjustments, audit log, reports, backups

The bot is the source of truth between raids; the addon is the source of truth during a raid. Before a raid the bot hands the addon a snapshot of everyone's DKP; afterwards the addon hands the bot what changed.

2. What you need

- A Discord server where you have **Manage Server**.
- An **authenticator app** on your phone (Google Authenticator, Microsoft Authenticator, Authy, 1Password or Bitwarden).
- Somewhere for the bot to run all the time. We recommend a small Azure VM (**Setting Up Azure**, about $12 to $15 a month). A PC that stays on, a small Linux server or Docker also work (section 5).

3. Create the bot in Discord

1. Open **https://discord.com/developers/applications** and sign in.
2. Click **New Application**, name it **Absolute Raid Bot**, and accept the terms.
3. Optional: on **General Information**, upload the bot's picture (the dragon logo in the bot's `assets` folder).
4. Open the **Bot** page.
   - Click **Reset Token**, then **Copy**. That is the bot's password. **Never share it, paste it into Discord, or put it in a screenshot.** If it leaks, reset it here and give the bot the new one.
   - Leave Presence, Server Members and Message Content intents **off**. The bot needs none of them.

5. Open **OAuth2 -> URL Generator**.
   - **Scopes:** tick `bot` and `applications.commands`.
   - **Bot permissions:** tick **Send Messages**, **Embed Links** and **Attach Files**.
   - Copy the link at the bottom, open it, choose your server and click **Authorize**.

4. Copy your IDs

In Discord, open **User Settings -> Advanced** and turn on **Developer Mode**. Then:

Right-click	Choose	It's called	Needed?
Your server's icon	Copy Server ID	`guild_id`	Yes: commands appear at once
Your own name	Copy User ID	`owner_id`	Optional: empty means whoever pairs the bot is the owner
A staff-only channel	Copy Channel ID	`log_channel_id`	Optional: the bot posts every DKP change there

5. Start the bot

Pick one:

- **Azure (recommended):** follow **Setting Up Azure.** `sudo arb-setup` asks for the token and IDs and prints the pairing code.
- **Your own PC or server:** install Python 3.11+, unzip **AbsoluteRaidBot-1.0.6.zip**, then in the `absolute-raid-bot` folder:
  - `python -m pip install -r requirements.txt`
  - copy `config.example.json` to `config.json` and fill in `guild_id` (and `owner_id`, `log_channel_id` if you want them)
  - set the token: PowerShell `$env:DISCORD_TOKEN = "..."`, or Linux/macOS `export DISCORD_TOKEN="..."`
  - `python run.py`. It prints Absolute Raid Bot 1.0.6 ready and the pairing code.
- **Docker:** `docker build -t absolute-raid-bot .` then `docker run -d --restart unless-stopped -e DISCORD_TOKEN=... -v /path/data:/app/data -v /path/config.json:/app/config.json absolute-raid-bot`

6. How the bot connects to Discord

- The bot **dials out** to Discord over an encrypted connection (HTTPS and a secure WebSocket on port 443) using its token. Discord never connects in, so no port is opened for it.
- The **token** is the bot's password. It stays on the bot's machine (on Azure, a root-only file) and is never put in Discord, the website downloads, or a VM image.
- Until it's **paired**, the bot ignores every command except the pairing command, so nobody else can take it over by inviting it to their server.

7. Pair the bot and register the owner

Where the pairing code comes from: the bot's machine makes a one-time code like `K7QM-2XVD-9FHT` the first time it starts. Only someone with access to that machine can see it:

Hosting	Where to see the code
Azure	`sudo arb-setup` prints it; `sudo arb-status` and the login banner show it again; the portal's **Boot diagnostics -> Serial log** shows it too
Your own PC or server	The terminal when the bot starts, or `data/pairing-code.txt`

Pair: in your server, a member with **Manage Server** runs:

`/dkpadmin pair code: K7QM-2XVD-9FHT`

- After pairing the bot works **only in your server**, and leaves any other server it's invited to. The code works once; five wrong codes and a new one is made.
- Whoever pairs becomes the **owner** (unless `owner_id` was set). **Pairing is the owner's registration:** the reply, shown only to them, contains their two-factor key.
- Scan the QR code in that reply with your authenticator app (no camera: **Enter a setup key** and type the key under it), then:

```
/dkpadmin 2fa-confirm code: 123456
```

- The bot replies **Admin registration complete** with **10 recovery codes**. Save them outside Discord: they're shown once.

Every admin command from now on needs your authenticator. Each session: `/dkpadmin unlock code: 123456` (15 minutes). Details: **Admin Registration and Account Recovery**.

8. First settings

1. Name the guild: `/dkpadmin setting key: Guild name value: <your guild>`
2. DKP per raid: `/dkpadmin set-dkp per_raid: 10 per_boss: 0`
3. Check the rest: `/dkpadmin settings` (explained in the **Admin Guide**)
4. Coming from another DKP system or spreadsheet? Load everyone's balances with `/dkpadmin import-db` (see **Importing and Exporting Data**).
5. Register officers: `/dkpadmin admin-add member: @Officer code: 123456` (owner only). Each officer gets their two-factor key by DM and finishes with `/dkpadmin 2fa-confirm` within 24 hours.
6. Tell raiders to register: `/dkp register` (see the **User Guide**).

9. Save the encryption key

The bot's backups and 2FA secrets are encrypted with `secret.key`. Copy it into your password manager now:

- Azure: `sudo cat /opt/absolute-raid-bot/data/secret.key`
- Your own machine: `data/secret.key` in the bot folder

10. What still needs the bot's machine

Almost nothing. Only these three, which are deliberately kept off Discord because having the machine proves you own the bot:

Task	Azure	Own machine
The owner lost their authenticator and all recovery codes	`sudo arb-reset-2fa <Discord user ID>`	`python run.py --reset-2fa <id>`
Move the bot to a different server	`sudo arb-pair-reset`	`python run.py --new-pairing-code`
A new bot token	`sudo arb-setup`	set `DISCORD_TOKEN` and restart

Lost a phone? Admins use a recovery code (`/dkpadmin recover`). An officer with no codes left is simply registered again by the owner.

Troubleshooting

Problem	Fix
Slash commands don't appear	Check `guild_id`, restart the bot, restart Discord. Without `guild_id` Discord can take an hour.
Every command says the bot isn't paired	Run `/dkpadmin pair` with the code.
The bot left a server by itself	It's paired with another server and only works there.
"403 Forbidden (error code: 50001): Missing Access", or the log says the bot isn't in your server	The bot hasn't been added to the server in `guild_id`, or `guild_id` is wrong. Open the invite link the log prints, add the bot to your server, and check `guild_id` (right-click the server > Copy Server ID). The bot adds its commands as soon as it joins.
"Improper token" in the log	The token is wrong or was reset. Copy a fresh one (section 3).
2FA codes keep failing	Set your phone's clock to automatic.

Questions or bugs: our Discord, https://discord.gg/a8nM6yvMQM · https://absolutegaming.store · support@absolutegaming.store