Absolute Raid Bot: Importing and Exporting Data

Version 1.0.6 · for officers and raid leaders · Absolute Gaming LLC

Everything the bot needs to run raids and keep the guild's DKP database goes in and out **through Discord**, as files you attach to a command or download from the bot's reply. Nobody needs to sign in to Azure, or to the machine the bot runs on, to do any of this.

1. What goes in and out

Data	Out of the bot	Into the bot	File
Tonight's DKP for the raid leader	`/dkpadmin snapshot`	`/arm import` in game	`dkp-snapshot-xxxxxxxx.txt`
What happened in the raid	`/arm export bot` in game	`/dkpadmin import`	`raid-YYYY-MM-DD.json`
The DKP database (readable)	`/dkpadmin export-db`	`/dkpadmin import-db`	`dkp-database-YYYY-MM-DD.csv` / `.json`
A full backup (encrypted)	`/dkpadmin backup`	`/dkpadmin restore`	`absolute-raid-bot-YYYYMMDD-HHMMSS.arbbak`
The report	`/dkpadmin report`		`dkp-report-YYYY-MM-DD.pdf`

All of these are admin commands: unlock first with `/dkpadmin unlock code: 123456`. Every one is written to the audit log.

2. Before the raid: the snapshot

1. An admin runs `/dkpadmin snapshot pool: Main`.
   - `pool` is the points pool's name in the addon. Keep using the same one.
   - The bot replies with **dkp-snapshot-xxxxxxxx.txt**: every active character's DKP and a check number.
2. The **raid leader** opens the file in Notepad, presses **Ctrl+A**, then **Ctrl+C**.
3. In game: `/arm import` (the addon also asks by itself when you form a raid without a fresh snapshot). Click the box, **Ctrl+V**, **Load snapshot**.
4. The addon checks the paste. A paste cut short or changed is refused; copy the whole file again.
5. "Snapshot xxxxxxxx loaded: N raiders". That pool now holds tonight's DKP, and Raid Companion raiders see their balance.

What the file looks like:

```
ARB-SNAPSHOT 1
id=c0f2d1ee|guild=Absolute Gaming|pool=Main|mode=dkp|created=1794445200|count=20|sum=27087
Morwen,SHAMAN,86
Brannoc,WARRIOR,82
...
END
```

Loading a snapshot **replaces** that pool's balances in the addon. That's intended: the bot is the master book. Other pools are untouched.

3. After the raid: importing the raid

1. When you leave the raid the addon reminds you. Type `/arm export bot` (or ATTENDANCE -> Export... -> For Absolute Raid Bot).
2. The export is already selected: **Ctrl+C**.
3. In Notepad, **Ctrl+V** and save it as `raid-YYYY-MM-DD.json` (choose All files so Notepad doesn't add `.txt`; `.txt` works too).

4. In Discord an admin runs `/dkpadmin import` and attaches the file.

The bot answers:

Line	Meaning
Raid nights added	New nights, with who was there and the bosses killed; nights it already had are skipped
DKP earned	DKP per raid night for each raider present, plus DKP per boss kill × their kills (and the addon's own awards when Earn source is `addon` or `both`)
DKP spent	Every item won at its winning bid, plus in-game penalties
New characters	Raiders the bot hadn't seen; added automatically
No raid DKP (Raid Companion didn't confirm them)	When Raid DKP needs Raid Companion presence is on
Warnings	No snapshot was loaded, an older snapshot was used, someone went below zero

It can't double-count. The same file twice is refused. Every night, boss payment, item and in-game change has its own key, so an overlapping export only adds what's new. The export carries tonight's **changes**, tagged with the snapshot's ID, never whole balances, so an adjustment made in Discord during the raid is kept.

4. Exporting the DKP database

`/dkpadmin export-db format: Both`
`format` is **CSV (spreadsheet)**, **JSON (everything)** or **Both** (the default). The bot replies with the files, shown only to you.

CSV: one row per active character, ready for Google Sheets or Excel:

```
character,class,discord_id,balance,earned,spent,raids,attendance_pct
Morwen,SHAMAN,,86,96,10,4,100
Brannoc-Stormrage,WARRIOR,123456789012345678,82,82,0,4,100
```

JSON: the whole book in one file (format `absolute-raid-bot-db`, version 1): settings, users, characters with balances, every transaction, raid nights, attendance and loot. Admin accounts, 2FA secrets and the pairing state are **never** in it.

These files aren't encrypted. Keep them among officers.

5. Importing DKP balances

Use it to:

- **start the bot from another DKP system** or a spreadsheet,
- **move to a new bot** (export JSON from the old one, import it into the new one),
- **fix many balances at once** from a corrected spreadsheet.

5.1 The file

A **CSV** whose first row names the columns:

Column	Also accepted as	Required
`character`	name, player, char, toon	Yes: Name or Name-Realm
`balance`	dkp, points, net, current, total	Yes: a number
`class`		No: used for new characters

Commas, semicolons or tabs all work, and other columns are ignored, so this bot's own CSV export imports as it is. A **JSON** file from `/dkpadmin export-db` works too (its balances are used).

```
character,class,balance
Morwen,Shaman,86
Brannoc-Stormrage,Warrior,82
```

5.2 Preview, then apply

1. **Preview:** `/dkpadmin import-db file:` (attach it). Nothing changes yet. The bot lists the rows, who changes and by how much, new characters, and any problems (a bad name, a balance that isn't a number, a name twice, a negative balance while negative DKP is off).
2. **Apply:** run it again with the same file, **confirm:** `IMPORT` and your current 2FA **code**.

5.3 What it does

- Each character ends up with **exactly** the balance in the file. The difference is recorded as a transaction (reason Database import (file name)) and an audit entry with the balance before and after.
- Characters not in the book are added (with that balance, not the start balance on top).
- Characters already right are left alone, so **importing the same file twice changes nothing**.
- Removed characters are skipped and listed; bring one back first with `/dkpmanage add-character`.
- Characters not in the file are untouched.
- Up to 5,000 rows, 5 MB.

6. Backups and restores

	Database export (section 4)	Backup
Readable	Yes	No: encrypted
Holds	The book (balances, history, raids, loot)	The whole book, settings and a copy of the audit log, with checksums
Opens in	Any bot, a spreadsheet	**Only this bot**, or one with a copy of its `secret.key`
Use it for	Spreadsheets, moving to a new bot, migrations	Disaster recovery

Automatic: every day at 09:00 UTC the bot writes an encrypted backup on its machine and keeps the newest 14.

On demand: `/dkpadmin backup note: before season reset` sends a backup to your DMs (or shows it only to you if your DMs are closed). Do it after every raid night and keep the files somewhere safe.

Restore:

```
/dkpadmin restore file: (attach the .arbbak) code: 123456 confirm: RESTORE
```

1. The bot checks the file: the right key, matching checksums and a database integrity check.
2. It saves a **safety backup** of the book as it is now, so a restore can be undone.
3. It puts the backup's book in place.
4. **The audit log is never rolled back.** It keeps everything, including the restore itself.

7. Moving to a new bot

You have	Do
Only Discord	Old bot: `/dkpadmin export-db format: JSON`. New bot (set up and paired): `/dkpadmin import-db` with that file, then again with `confirm: IMPORT`. Balances move; the new bot's history starts at the import
Access to the old bot's machine	Copy `secret.key` to the new bot's data folder, then `/dkpadmin restore` a backup on the new bot. Everything moves, history included

8. The PDF report

`/dkpadmin report` makes the navy and orange report: standings, DKP earnings, recent raid nights, recent loot and the rules. Only you see it, unless you add `public: True`.

Troubleshooting

Message	Fix
The snapshot paste is refused in game	Copy all of the file (Ctrl+A first). The first line must be `ARB-SNAPSHOT 1` and the last `END`
"This exact export was already imported"	Nothing to do: it's in
"That file isn't an Absolute Raid Management export"	Use the text from `/arm export bot`, not another export
"The first row must name the columns"	Add a header row with `character` and `balance`
"That JSON isn't an Absolute Raid Bot database export"	Import JSON made by `/dkpadmin export-db`, or use a CSV
"Applying an import needs a fresh 2FA code"	Put your authenticator's current code in the `code` box
A backup "can't be opened with this bot's secret.key"	It came from another bot. Use the database export instead (section 7)

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