Recover a Minecraft player inventory from a backup

A Java Minecraft player's saved inventory can sometimes be recovered without rolling back everyone's world. You need a usable backup from before the loss and the correct player identity. Without a backup or an inventory plugin's retained history, there is no guaranteed way to reconstruct the missing items.

Decide what needs recovering

Ask when the loss happened and whether it affected carried items, an ender chest, a chest in the world or a plugin-managed inventory. These are not interchangeable. A chest placed in a chunk is world data; a separate inventory plugin may store its own files or database records.

In a standard Java dedicated server, vanilla player files are under `<level-name>/playerdata/<UUID>.dat`. Read `level-name` in `server.properties` to identify the main world. Plugins can change how inventories are handled, so inspect the installed inventory and authentication plugins before assuming this file is the only source.

Identify the player safely

Match the UUID against the server's trusted records, such as a relevant successful-login log entry or `usercache.json`. A public username lookup may not match an offline-mode, proxy or Bedrock-linked identity. If authentication settings changed, ask support to reconcile the identities rather than renaming files until one works.

Explain the effect before restoring: a whole player-data file contains more than items. It also carries state such as location, health, experience and other saved player information. The player can return to an older position or lose legitimate progress made since the backup.

Restore one file while the server is stopped

1. Ask the player to disconnect, announce a maintenance window and stop the server normally. Wait for its final save and exit.
2. Take and verify a current full backup, including relevant external plugin databases. Keep this recovery point separate from the older backup.
3. Extract the older archive into a separate local directory. Confirm its timestamp, world and UUID. Do not restore the entire archive over the live server to obtain one file.
4. Download the current matching `.dat` file to a clearly dated recovery folder. Copy the older matching file into the same server path without changing the UUID.
5. Start the server with the same software and version. Let the player join and check inventory, ender chest, position and experience before normal play resumes.

Check for plugin conflicts

Per-world inventory, economy, graves and item-tracking plugins can keep state elsewhere. Restoring a vanilla file while leaving newer plugin records can duplicate, remove or overwrite items. Follow each plugin author's restoration procedure and use a consistent backup point where its database and world state depend on each other.

If the result is wrong, stop again before restoring your saved current file. Do not delete all playerdata or switch authentication mode as a recovery shortcut. An inventory-only NBT edit needs separate review and a backup; this guide deliberately restores the complete saved record rather than guessing individual tags.

Further reading: Paper's upstream player save/load API documentation. For damage to builds, see grief recovery.

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