

# Permissions

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This is the system that is used for determining user permission and access levels for the servers.

## Authentication Server

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A server that handles the login process, and provides a user with a token that specifies their identity for the Resource Server

- Anyone can log in to an account if they provide the proper credentials (identity)
- Anyone can add an account through the authentication server if they have a unique identity and provide credentials to use
  - for now it is assumed that your account is already created and valid for any identity

## Resource Server

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The server that houses the leaderboards. Different users can access different parts of the server and are allowed to modify different things.

### Public Features

- A list of users and the user's ID, name, creation date, list of verified entries, and permissions for each leaderboard
- A list of leaderboards for which all users are granted Read Access

### Permission Levels

- No Access
  - No resources can be accessed besides those which are publicly readable, all other requests responded to with Access Denied
- Read Access
  - Verified entries can be viewed, including ID, place, player name, score, date/time of submission, date/time of verification and who verified it, a list of proof files, the content of proof files, the number of comments and the comments themselves.
- Write Access (includes Read Access)
  - Submissions can be created, including score, description, and proof files
  - **All** entries from this user can be viewed and comments can be added, or the entry can be removed
- Moderator (includes Write Access)
  - Unverified entries from any user can be viewed
  - Comments can be added to any unverified entry
  - An unverified entry can be verified
  - An entry can be removed
  - Permissions for any user with below moderator access can be modified for this leaderboard

### Administrator Privileges

- Admin includes Moderator permissions **for all leaderboards** plus
  - Create/delete leaderboards
  - set leaderboard score order
  - Delete users
  - Modify permissions for any user for any leaderboard
- The first user to connect to a resource server is given admin permissions