

1 Overview

Throughout this document, the term “web application” is used. The web application can be any forum, CMS, blogging software, etc. that uses MySQL for its database.

These are the major features of Community Bridge:

1. Minecraft player to web application user “linking”.
2. Group synchronization (currently a misnomer, since the “synchronization” is only one way)
3. Recording statistical information about the players in web application custom fields.
4. Kicking of players who are banned from the web application.

The first of the features is essential, without it, none of the other features of the plugin would work. Given that the linking feature’s importance, it is the first thing to evaluate when ensuring that CommunityBridge is operating correctly.

1.1 Proposed config.yml Preamble

```
#
# Community Bridge Configuration File
#

# Log level controls the degree of detail that is sent to the console/log
# The possible settings are (in order of quietest to noisiest:
#   info, config, fine, finer, finest, all
# - During configuration, I recommend using 'config'.
# - During normal operation, I recommend using 'info'.
# - If you want to see the notifications that the synchronize and reminder
#   notices have been sent, use 'fine'
# - During troubleshooting of problems, set this to either finest or all.
log-level: config

# Set the unit of measurement for sync and reminder scheduling. Options are:
# ticks, seconds, minutes, or hours. Note that this applies to both
# auto-sync-every and auto-remind-every.
auto-every-unit: minutes

# This is a timer that will check and sync all data with your database at a set
# interval. Otherwise group and player stats will only be synchronized when
# they join and leave the server.
auto-sync: true

# The interval for the auto-sync timer, this should be no less than
# 15-20 minutes.
auto-sync-every: 20

# Some definitions:
# - web-application: The forum, CMS, blogging app, etc. that you're using on
#                   your website.
```

1.2 Proposed config.yml Database Section

```
# Please ensure if you run your Minecraft server on a remote host
# that your MySQL server allows REMOTE connections. This WILL NOT WORK unless
# your MySQL server is configured to allow connections from the machine that
# your Minecraft server is running on. If you don't know what that means, consult
# your hosting provider on how to configure your MySQL server correctly.
# All of this information should be the same server and database used by your
# web-application...
database:
  # Hostname for your MySQL Server
  hostname: localhost

  # MySQL Port
  port: 3306

  # Database Name
  name: databasename

  # Database Username
  username: username

  # Database Password
  password: password
```

2 Linking Feature

For each of the following configurations, CB should:

- Recognize a player as not being registered, e.g., not present in the web application's database.
- Correctly identify a player as being registered—identifying the correct user.
- (NYI) If authentication is off **DO NOT** force authentication.
- (NYI) If authentication is on, handle a valid authentication by...
- (NYI) If authentication is on, respond to an failed authentication attempt by...

Possible Configurations (order of complexity):

- Minecraft playername and web application username are required to be the same. Required information: users table, user id column, username column. Configuration Name: same_name.
- Minecraft playername and web application username can be different; the Minecraft playername is in a separate column on the users table. Required information: users table, user id column, minecraft playername column. Configuration Name: diff_name_same_table.
- Minecraft playername and web application username can be different; the Minecraft playername is on a different table in its own column (frequently, this is because it is implemented through a custom profile field in the web application). Required information: tablename, user id column, minecraft playername column. Configuration Name: diff_name_diff_table
- Minecraft playername and web application username can be different; the Minecraft playername is on a different table that data is stored in the key-value format. Required information: tablename, user id column, key column, value column, data key name. Configuration Name: diff_name_diff_table_keyed

2.1 Proposed config.yml Section

```
# Settings associated with linking a Minecraft player with a web application's
# user. As this feature is a prerequisite for all other features, it cannot
# be disabled.
player-user-linking:
  # Set these to true to inform players when they log in if they're linked to
  # the web application. These correspond to the link-unregistered-player and
  # link-registered-player messages in messages.yml.
  notify-unregistered-player: true
  notify-registered-player: true

  # This is a timer that will notify unregistered users to register
  auto-remind: true

  # The interval for the auto-remind timer, this should be no less than
  # 5-10 minutes. Note that this uses the units specified above in
  # auto-every-unit.
  auto-remind-every: 10

  # If you want the player disconnected from the game if they haven't
  # registered, then set this to true. They will be shown the
  # link-unregistered-player message (in message.yml) on the disconnected
  # screen.
  kick-unregistered: false

  # This is where we specify how to associate a Minecraft player with a web
  # application user. We do this by matching up the player name with a name
  # stored in the web application's database.
  #
  # If you want your players to use the same name on both the server and the
  # web application, then you will need to provide the table and column
  # information where the web application relates its user IDs with the user's
  # name/login ID/login/username.
  #
  # If you want to allow them to use a different name on the web application,
  # you need to add a custom field or column to your web application's database,
  # and provide that table and column information here.

  # The name of the table which contains the columns:
  table-name: ''

  # Column on the table that contains the user ID. Typically something like
  # user_id or member_id
  user-id-column: ''
```

```
# If the player name is stored in a key-value pair of columns instead of
# its own column, set this to true:
linking-uses-key: false

# If you set 'linking-uses-key' to false, then set this to the column that
# the playername is stored in. Otherwise, leave it empty.
playername-column: ''

# If you set 'linking-uses-key' to true, then set the key column, value column,
# and the key-name here. Otherwise, leave these fields empty.
key-name: ''
key-column: ''
value-column: ''
```

2.2 Proposed messages.yml section

Messages related to the linking feature in the messages.yml.

```
# Replace APPURL with your web application's website url.
link-unregistered-player: Unregistered Account - Please register at APPURL for full access
link-registered-player: Registered Account, Linked to Forums.
link-unregistered-reminder: Just a reminder to visit APPURL and register today!
```

3 Authentication

3.1 Proposed config.yml Section

```
# Set this to true if you want to require the player to confirm that they're
# the player that is registered on the web application by providing their
# web application password.
authentication-required: false
```

4 Group Synchronization

Many web systems have a notion of a “primary” group. However, very few of the permissions plugins do. This is not a problem when the synchronization is “Forums override Minecraft”, but it presents a difficulty the other direction, “Minecraft override Forums”.

4.1 Proposed config.yml Section

```
# Settings to control group synchronization features.
group-synchronization:
  # Set this to true to use any of the group synchronization features. If this
  # is false, the rest of this section is ignored.
  enabled: false

  # This subsection contains settings for primary group synchronization.
  primary:
    enabled: false

    # Notify player that they've been placed in a primary group.
    notify-player: false

    # The permissions system (PEX, bPerms, GroupManager, PermsBukkit, Vault)
    permissions-system: GroupManager

    # Set this to true if your permissions system uses primary groups.
    permissions-system-uses-primary-group: false

    # This subsection contains details about how the web-application stores
    # its primary group information.
    group-table:
      # Set this to true if your web application uses primary groups or its
      # equivalent.
      enabled: false

      # Set this to the name of the table that the users' primary group is
      # stored on.
      name: primary_group_table

      # On the table where primary group information is stored, the user_id
      # column/field
      user-id-column: user_id_on_primary_group_table

      # On the table where primary group information is stored, the primary
      # group column/field
      group-column: group_id_on_primary_group_table
    secondary:
      enabled: false

    # This subsection contains details about how the web-application stores
    # secondary groups.
```

```
group-table:
  # Set this to true if your web application uses secondary groups or its
  # equivalent.
  enabled: false

  # Set this to the name of the table that the users' secondary group is
  # stored on.
  name: secondary_group_table

  # On the table where primary group information is stored, the user_id
  # column/field
  user-id-column: user_id_on_secondary_group_table

  # On the table where primary group information is stored, the primary
  # group column/field
  group-column: group_id_on_secondary_group_table
groups:
  '1':
    direction: webapp
    group: groupname
    world: worldname
  '2':
    direction: minecraft
    group: groupname
    world: worldname
```

4.2 Proposed messages.yml Section

group-synchronization-primary-notify-player: You have been placed in the primary group '

A Full Proposed config.yml

```
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# - If you want to see the notifications that the synchronize and reminder
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# - During troubleshooting of problems, set this to either finest or all.
log-level: config

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auto-every-unit: minutes

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# interval. Otherwise group and player stats will only be synchronized when
# they join and leave the server.
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# The interval for the auto-sync timer, this should be no less than
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# your hosting provider on how to configure your MySQL server correctly.
# All of this information should be the same server and database used by your
# web-application...
database:
  # Hostname for your MySQL Server
  hostname: localhost
```

```
# MySQL Port
port: 3306

# Database Name
name: databasename

# Database Username
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# This is a timer that will notify unregistered users to register
auto-remind: true

# The interval for the auto-remind timer, this should be no less than
# 5-10 minutes. Note that this uses the units specified above in
# auto-every-unit.
auto-remind-every: 10

# If you want the player disconnected from the game if they haven't
# registered, then set this to true. They will be shown the
# link-unregistered-player message (in message.yml) on the disconnected
# screen.
kick-unregistered: false

# This is where we specify how to associate a Minecraft player with a web
# application user. We do this by matching up the player name with a name
# stored in the web application's database.
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# If you want your players to use the same name on both the server and the
# web application, then you will need to provide the table and column
# information where the web application relates its user IDs with the user's
# name/login ID/login/username.
#
```

```
# If you want to allow them to use a different name on the web application,
# you need to add a custom field or column to your web application's database,
# and provide that table and column information here.

# The name of the table which contains the columns:
table-name: ''

# Column on the table that contains the user ID. Typically something like
# user_id or member_id
user-id-column: ''

# If the player name is stored in a key-value pair of columns instead of
# its own column, set this to true:
linking-uses-key: false

# If you set 'linking-uses-key' to false, then set this to the column that
# the playername is stored in. Otherwise, leave it empty.
playername-column: ''

# If you set 'linking-uses-key' to true, then set the key column, value column,
# and the key-name here. Otherwise, leave these fields empty.
key-name: ''
key-column: ''
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  # Set this to the name of the table that the users' primary group is
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  # On the table where primary group information is stored, the primary
  # group column/field
  group-column: group_id_on_primary_group_table
secondary:
  enabled: false

# This subsection contains details about how the web-application stores
# secondary groups.
group-table:
  # Set this to true if your web application uses secondary groups or its
  # equivalent.
  enabled: false

  # Set this to the name of the table that the users' secondary group is
  # stored on.
  name: secondary_group_table

  # On the table where primary group information is stored, the user_id
  # column/field
  user-id-column: user_id_on_secondary_group_table

  # On the table where primary group information is stored, the primary
  # group column/field
  group-column: group_id_on_secondary_group_table
groups:
  '1':
    direction: webapp
    group: groupname
    world: worldname
  '2':
```

direction: minecraft
group: groupname
world: worldname

B Full Proposed messages.yml

```
# Replace APPURL with your web application's website url.  
link-unregistered-player: Unregistered Account - Please register at APPURL for full access  
link-registered-player: Registered Account, Linked to Forums.  
link-unregistered-reminder: Just a reminder to visit APPURL and register today!  
  
group-synchronization-primary-notify-player: You have been placed in the primary group '
```