Cloning Mizu VOIP Server

Step by step guide to clone/install Mizu VoIP server

Note: This Guide is not for the Compact editions. The Compact editions are using a built-in database and they can be just copied as-is.

To create a new VoIP server, basically you just have to copy the application files, and the database, and change a few settings. You can use this guide also to create a new server instances on the same box. In this case make sure that the new server will listen on different ip (bindip) or ports (localport, etc).

The mizu VoIP server has two important "part":
-The application files: these can be easily moved to any other location because there are no dependencies (no registry settings, etc). Just copy the whole directory (except the log files named *log.dat)
The mserver.exe runs as an NT service. After you move the files to the new location, you have to register them as windows services by just running them with the –install parameter.
-The database: MS-SQL (free or full version is required). This is downloadable from the Mizutech website or from Microsoft.
All data is stored in the sql database. To move it to a new location, you just have to make a backup on your old server, and then restore it on the new server.
Then you will have to change the [database] section in the ini file near the mserver.exe in the application directory.
The application and the database can be placed on different servers to improve the service performance.

The required steps are explained in more details below:

1. Backup the current database [on the old server]
➢ Launch "sql server management studio" (if you don't already have this tool, than you can download it from here)
  (the old password can be found in the mizuserver.ini file near the service executable)
➢ Right click on your database and select tasks->backup
➢ On the "Destination" section click on "remove" if something is already there and then click "add" and select the path for the backup file.
➢ Click ok
➢ Copy the database backup to the new server (using shared folders or FTP for example)

2. Install ms-sql server [on the new server]
➢ Download the full or express edition from here
➢ You can also download the VoIP server package from here. This package contains also the ms-sql express database.
➢ During install, select "mixed" authentication mode and enter a password for the "sa" user. After install, launch the "sql server configuration manager", enable TCP/IP on port 1433 (or change the port to 2223)

3. Copy all files from the "MizuVoIPServer" directory to the new location
➢ Default directory is C:\Program Files\MizuVoIPServer
➢ Don't copy the log files (log_date_vservdebuglog.dat files) and the content of the Logs folder
➢ Change the database access in the mizuserver.ini under the [database] section.
Example:
    [database]
    location=192.168.0.2
    port=1433
    name=mserver
    username=sa
    password=xxxxx

4. Create a new database [on the new server]
➢ Launch "sql management console"
➢ Right click on databases and select "new database"
➢ Type any name (for example "mserver")
➢ You can optimize the workload by selecting different hard disk for the data and the log files

- ➢ On the options page -> recovery model: select "simple"
- ➢ Click on ok

5. Windows firewall configuration [on the new server]
- ➢ Enable sqlsrv.exe and mserver.exe on the windows firewall
- ➢ Additionally you might have to enable also the following executables: MizuWeb.exe (for web access), tlsproxy.exe (for TLS access), lego.exe (for auto Let's encrypt TLS certificates), tsmodules\fs\mserver_fs.exe (for extra pbx functions), atarongk.exe (if you are using H.323), vsip.exe (if you are using SIP to H.323 conversion), mserverftp.exe (if you need to listen for the recorded voices using a remote MManage)

If you have a port based firewall, you will need to enable the SIP signaling ports (localport and alternatelocalport config options; defaults to 5060 for UDP and TCP), SIPS (TCP 5061), Web, API and Websocket (TCP 80), the SIP media port range (UDP between MinRTP and MaxRTP config options), pbx media port range (UDP ports between fs_minrtp and fs_maxrtp), H323 signaling and media ports (1720 and dynamic UDP). For remote administration you will need at least the database port (1433 by default or 2223) and optionally the console and monitor TCP ports.

6. Restore the database [on the new server]
- ➢ Launch "sql management console"
- ➢ Right click on your database and select tasks->restore->database
- ➢ In the "source for restore" section select "from device" then select the backup file
- ➢ Check the checkbox
- ➢ On the options page check the "overwrite…" checkbox
- ➢ In the "restore the database file as" section -> restore as column select the already existing data and log files.
- ➢ Click on ok

7. Install the remote management application [on the new server]
- ➢ Launch the MizuManagement_Setup.exe setup package

8. Server configuration [on the new server]
- ➢ The most important configuration is the new IP address
- ➢ Launch the MizuManage application
- ➢ Launch the Configuration Wizard from the Config menu
- ➢ Configure the options on the Network page (especially the new server IP)

9. Reset the database [on the new server]
- ➢ This step is optional and will delete your users, cdr records and server configuration. Use it only for new server instances (not for cloning)
- ➢ To have a clean install, you can just delete the content of the database tables.
- ➢ You can do it from MizuManage -> Config menu -> Database -> Setup -> Clean Database Tables

10. Install and start the service [on the new server]
- ➢ To install the service you just have to launch the server with the "/install" or "-install" parameter.
- ➢ Launch the command prompt (start menu -> run -> type "cmd") as Administrator
- ➢ Enter path\mserver.exe /install
- ➢ A dialog box must appear to confirm the successful registration
- ➢ You should see it under the services (start menu -> administrative tools -> services) and you can start it.
- ➢ To stop/start the server you can also use the "stop.bat"/"start.bat" file from the application directory or from the Services control panel or from MManage -> Control menu.
- ➢ Make sure you have a proper license also for the new server. Contact mizutech support for this.