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Enabling Replication

The following information illustrates the steps required to enable a High Availability Replicant Server.

It is assumed that you already have a functional installation of TapeTrack Server running.

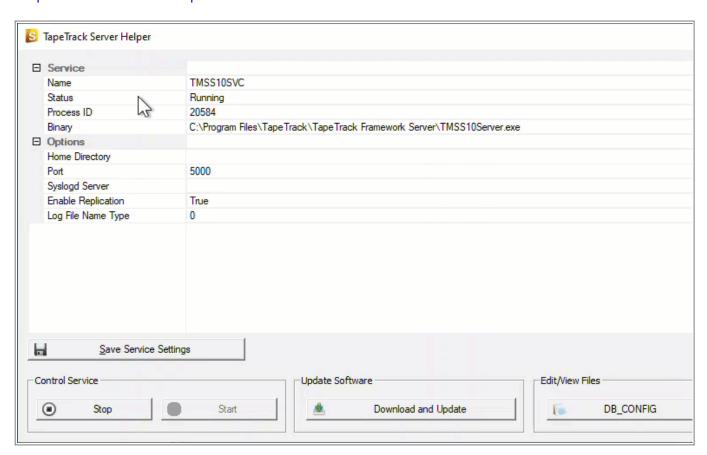
All steps must be performed in the order presented to create a successful connection between the Master and Replican Server.

IP addresses included in the instructions are for demonstration only, these must be replaced with your correct values.

Steps On Remote Server

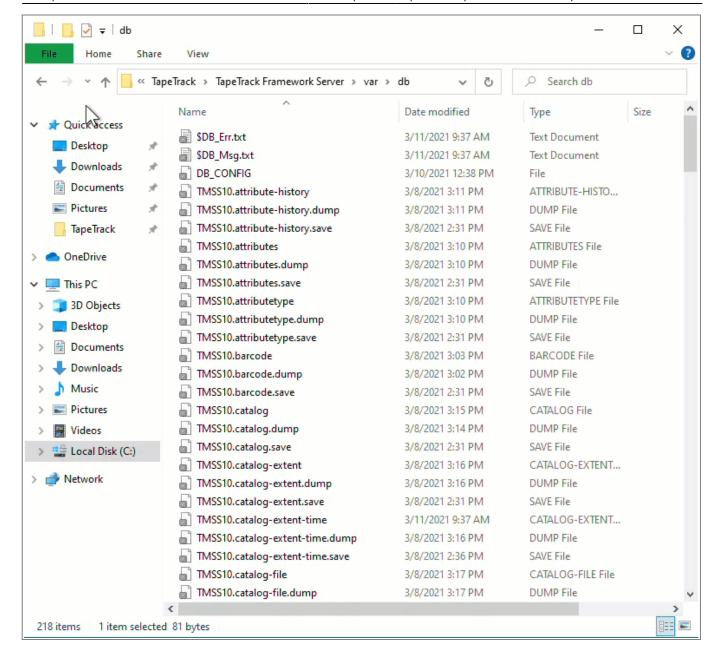
Install the TapeTrack Framework Server software on your Replicant machine.

Stop the service on the Replicant machine.



Navigate Windows File Explorer to the TapeTrack Framework Server installation directory (TapeTrack\TapeTrack Framework Server) to the var\db folder.

Delete all database files on the Replicant machine (all files in the TapeTrack\TapeTrack\Framework Server\var\db directory) **EXCEPT** the DB CONFIG file).



Open the DB_CONFIG file in Notepad, or equivalent text editor.

Edit the TapeTrack\TapeTrack Framework Server\DB_CONFIG file to remove the comments (#'s) starting from the line **rep-set-priority 0** to make the machine a Replicant.

Edit the Replicant Server and Master Server host names in the DB_CONFIG file.

- Replace replicant-1.tapetrack.com with the IP address of your Replicant Server (your_replicant_IP_address used as Replicant IP example).
- Replace master.tapetrack.com with the IP address of your Master Server (your master IP address used as Master IP example).



Ensure you use the IP4 address for the Master and Replicant Server as using the domain name can cause issues with the IP6 address replacing the IP4 address, stopping the Master and Replicant communication.

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```
DB_CONFIG - Notepad
                                                                         File Edit Format View Help
set_flags DB_LOG_AUTOREMOVE
# Set the log directory to an alternate directory
set_lg_dir ..\dblogs
#
    Ι
#
# Set Verbose Output
set verbose DB VERB DEADLOCK
set_verbose DB_VERB_RECOVERY
set verbose DB VERB REPLICATION
set verbose DB VERB WAITSFOR
#
#rep set priority 1
#repmgr site replicant-1.tapetrack.com 5010
#repmgr_site master.tapetrack.com 5010 db_local site on db group creator on
# Optional settings
#
#rep set config DB REP CONF BULK on
#rep set config DB_REP_CONF_AUTOINIT off
#
#rep set priority 0
#repmgr site replicant-1.tapetrack.com 5010 db local site on
#repmgr site master.tapetrack.com 5010 db bootstrap helper on
#rep set config DB REP CONF BULK on
<
                                                   100%
                                                                     UTF-8
                                    Ln 1, Col 1
                                                        Windows (CRLF)
```



Ensure that the replication TCP/IP ports specified in the DB_CONFIG file are open for inbound connections.

Steps On Master Server

Stop the TapeTrack service on the master TapeTrack server.



Do Not delete any files on the master server

Edit the TapeTrack\TapeTrack Framework Server\DB_CONFIG file and remove the comments (#'s) starting from the line **rep-set-priority 1** to make the machine a master server.

Edit the DB_CONFIG file to define the local and remote server. Edit the Replicant Server and Master

Server host names in the DB CONFIG file.

- Replace **replicant-1.tapetrack.com** with the domain name (or IP address) of **your** Replicant Server (your replicant IP address used as Replicant IP example).
- Replace master.tapetrack.com with the domain name (or IP address) of your Master Server (your master IP address used as Master IP example).

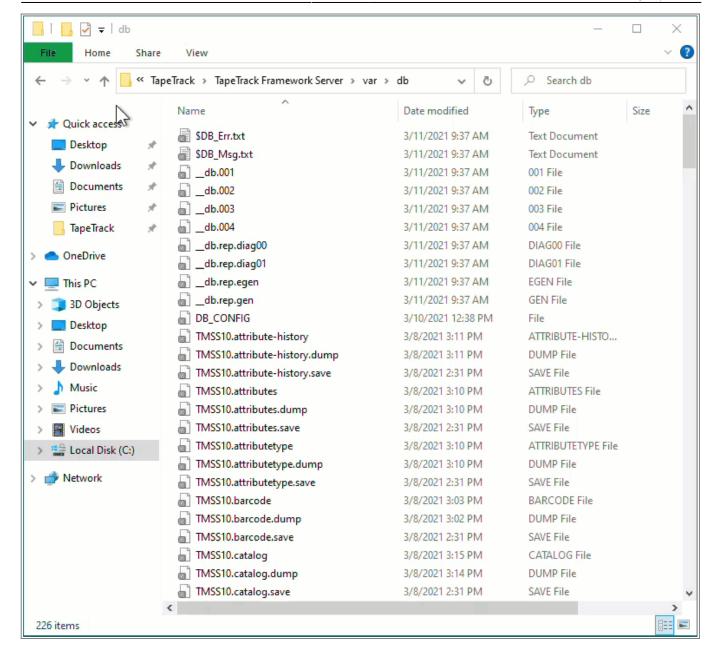
```
*DB_CONFIG - Notepad
File Edit Format View Help
set flags DB LOG AUTOREMOVE
# Set the log directory to an alternate directory
#
set lg dir ..\dblogs
#
# Set Verbose Output
#
set verbose DB VERB DEADLOCK
set verbose DB VERB RECOVERY
set verbose DB VERB REPLICATION
set verbose DB VERB WAITSFOR
#rep set priority 1
#repmgr site replicant-1.tapetrack.com 5010
#repmgr site master.tapetrack.com 5010 db local site on db group creator on
# Optional settings
#rep set config DB REP CONF BULK on
#rep set config DB REP CONF AUTOINIT off
#
#
#rep set priority 0
#repmgr site replicant-1.tapetrack.com 5010 db local site on
#repmgr site master.tapetrack.com 5010 db bootstrap helper on
#rep set config DB REP CONF BULK on
                                                   100%
                                                                     UTF-8
                                    Ln 45, Col 2
                                                        Windows (CRLF)
```

Delete all, and only, the files starting with _db. and db.rep.. This step is made easier if you sort the files in ascending order of file manes to group them all together.

These files will be rebuilt when the server is restarted using the information of the new master and replicant details.

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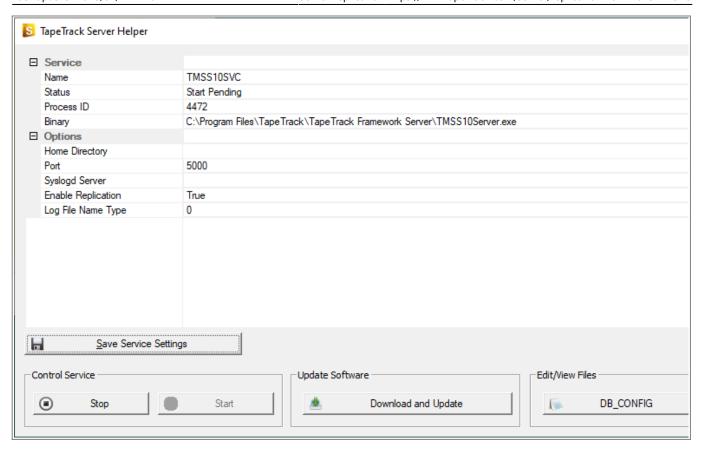


Ensure that the replication TCP/IP ports are open for inbound/outbound connections.

Start The Servers

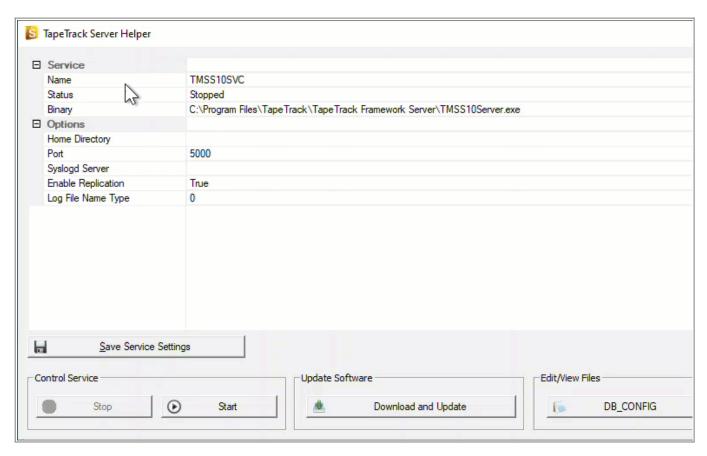
Start the TapeTrack service on the remote machine.

The replicant server will prepare the database for connection to the master server and move into Start Pending mode while waiting for the master server to respond.



Promptly Start the master TapeTrack Server.

The master server will now connect to the replicant server and load the database information across the connection. This may take time depending on the database size.



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Confirming Functionality Of Primary And Replicant Servers

Open \$DB_Msg.txt file (in the var/db directory) on both the primary and replicant server to ensure that replication is functional.



Ensure that all firewall ports are open to allow the replication traffic to pass between the replicants.

master_db_msg



The replication communications are not encrypted so if replication is enabled you should ensure that all machines that are replicated are in a trusted network or connected via a secure VPN connection.

Server replication troubleshooting

See Also

Restoring replicant server to master server status

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