# **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.

C:\Program Files\TapeTrack\TapeTrack Framework Server\TMSS10Server.exe

# **Steps On Remote Server**

Install the TapeTrack Framework Server software on your Replicant machine.

Stop the service on the Replicant machine.

2

Save Service Settings

TMSS10SVC

Running

20584

5000

True

0

TapeTrack Server Helper

E Service Name

Status

Binary Options Home Directory

Port

Process ID

Syslogd Server Enable Replication

Log File Name Type

Control Service	Update Software	Edit/View Files
Stop Start	A Download and Update	DB_CONFIG
Delete all database files on the Replican Framework Server\var\db directory	•	rack\TapeTrack

📙   🛃 🏹 🖛   db			_	
File Home Share	View			~ 🕐
🗲 🔿 👻 🛧 📘 « Taj	peTrack > TapeTrack Framework Server > var	ٽ v db «	,○ Search db	
V A Quick Sccess	Name	Date modified	Туре	Size ^
Desktop 📌	SDB_Err.txt	3/11/2021 9:37 AM	Text Document	
Downloads	SDB_Msg.txt	3/11/2021 9:37 AM	Text Document	
	DB_CONFIG	3/10/2021 12:38 PM	File	11
🖆 Documents 🖈	TMSS10.attribute-history	3/8/2021 3:11 PM	ATTRIBUTE-HISTO	
E Pictures 📌	TMSS10.attribute-history.dump	3/8/2021 3:11 PM	DUMP File	
📙 TapeTrack 🛛 🖈	TMSS10.attribute-history.save	3/8/2021 2:31 PM	SAVE File	
> 🔿 OneDrive	TMSS10.attributes	3/8/2021 3:10 PM	ATTRIBUTES File	
	TMSS10.attributes.dump	3/8/2021 3:10 PM	DUMP File	
🗸 💻 This PC	TMSS10.attributes.save	3/8/2021 2:31 PM	SAVE File	
> 🧊 3D Objects	TMSS10.attributetype	3/8/2021 3:10 PM	ATTRIBUTETYPE File	
> Desktop	TMSS10.attributetype.dump	3/8/2021 3:10 PM	DUMP File	
> 🛱 Documents	TMSS10.attributetype.save	3/8/2021 2:31 PM	SAVE File	
	TMSS10.barcode	3/8/2021 3:03 PM	BARCODE File	
> 🕂 Downloads	TMSS10.barcode.dump	3/8/2021 3:02 PM	DUMP File	
> 🎝 Music	TMSS10.barcode.save	3/8/2021 2:31 PM	SAVE File	
> 📰 Pictures	TMSS10.catalog	3/8/2021 3:15 PM	CATALOG File	
> 📑 Videos	TMSS10.catalog.dump	3/8/2021 3:14 PM	DUMP File	
> 🏥 Local Disk (C:)	TMSS10.catalog.save	3/8/2021 2:31 PM	SAVE File	
<b>A</b>	TMSS10.catalog-extent	3/8/2021 3:16 PM	CATALOG-EXTENT	
> 💣 Network	TMSS10.catalog-extent.dump	3/8/2021 3:16 PM	DUMP File	
	TMSS10.catalog-extent.save	3/8/2021 2:31 PM	SAVE File	
	TMSS10.catalog-extent-time	3/11/2021 9:37 AM	CATALOG-EXTENT	
	TMSS10.catalog-extent-time.dump	3/8/2021 3:16 PM	DUMP File	
	TMSS10.catalog-extent-time.save	3/8/2021 2:36 PM	SAVE File	
	TMSS10.catalog-file	3/8/2021 3:17 PM	CATALOG-FILE File	
	TMSS10.catalog-file.dump	3/8/2021 3:17 PM	DUMP File	¥
	<			>
218 items 1 item selecter	d 81 bytes			

Edit the TapeTrack\TapeTrack Framework Server\DB\_CONFIG file and 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.

```
DB_CONFIG - Notepad
                                                                          X
File Edit Format View Help
set_flags DB_LOG_AUTOREMOVE
                                                                                 1
#
# 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 DB CONFIG file and remove the comments (#'s) starting from the line **rep-set-priority 1** to make the machine a master server.

```
DB CONFIG - Notepad
File Edit Format View Help
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 crea
#
# 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
```

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

```
*DB_CONFIG - Notepad
File Edit Format View Help
set verbose DB VERB WAITSFOR
#
rep set priority 1
repmgr site RRR.RRR.RRR.RRR 5010
repmgr site MMM.MMM.MMM.5010 db local site on db group creator
#
# 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
```

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#### Delete all the files starting with \_db. and db. rep..

📙   🚺 🔽   db			_	
File Home Share	View			~ 🕐
← → ~ ↑ 📙 « Ta	peTrack > TapeTrack Framework Server > var	5 ~ db <		
✓	Name	Date modified	Туре	Size ^
Desktop 🖈	SDB_Err.txt	3/11/2021 9:37 AM	Text Document	
	\$DB_Msg.txt	3/11/2021 9:37 AM	Text Document	
🚽 Downloads 🖈	🚽 _db.001	3/11/2021 9:37 AM	001 File	
🖆 Documents 🖈	🚽 _db.002	3/11/2021 9:37 AM	002 File	
E Pictures 🖈	📓db.003	3/11/2021 9:37 AM	003 File	
📊 TapeTrack 🛛 🖈	🚽 _db.004	3/11/2021 9:37 AM	004 File	
> 🔿 OneDrive	📄db.rep.diag00	3/11/2021 9:37 AM	DIAG00 File	
> Chebrive	🚽 _db.rep.diag01	3/11/2021 9:37 AM	DIAG01 File	
🗸 💻 This PC	📄db.rep.egen	3/11/2021 9:37 AM	EGEN File	
> 🧊 3D Objects	🚽 _db.rep.gen	3/11/2021 9:37 AM	GEN File	
> Desktop	DB_CONFIG	3/10/2021 12:38 PM	File	
> 🛱 Documents	TMSS10.attribute-history	3/8/2021 3:11 PM	ATTRIBUTE-HISTO	
> L Downloads	TMSS10.attribute-history.dump	3/8/2021 3:11 PM	DUMP File	
	TMSS10.attribute-history.save	3/8/2021 2:31 PM	SAVE File	
> 🎝 Music	TMSS10.attributes	3/8/2021 3:10 PM	ATTRIBUTES File	
> E Pictures	TMSS10.attributes.dump	3/8/2021 3:10 PM	DUMP File	
> 📑 Videos	TMSS10.attributes.save	3/8/2021 2:31 PM	SAVE File	
> 🏥 Local Disk (C:)	TMSS10.attributetype	3/8/2021 3:10 PM	ATTRIBUTETYPE File	
	TMSS10.attributetype.dump	3/8/2021 3:10 PM	DUMP File	
> 💣 Network	TMSS10.attributetype.save	3/8/2021 2:31 PM	SAVE File	
	TMSS10.barcode	3/8/2021 3:03 PM	BARCODE File	
	TMSS10.barcode.dump	3/8/2021 3:02 PM	DUMP File	
	TMSS10.barcode.save	3/8/2021 2:31 PM	SAVE File	
	TMSS10.catalog	3/8/2021 3:15 PM	CATALOG File	
	TMSS10.catalog.dump	3/8/2021 3:14 PM	DUMP File	
	TMSS10.catalog.save	3/8/2021 2:31 PM	SAVE File	~
226 items	<			

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

#### Start the master TapeTrack Server.

## **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.



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

From: https://rtfm.tapetrack.com/ - **TapeTrack Documentation** 

Permanent link: https://rtfm.tapetrack.com/server/replication?rev=1615418989

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