# **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.

**DO NOT** delete the DB\_CONFIG file.

Delete all database files on the Replicant machine (all files in the var/db directory) **EXCEPT** the DB\_CONFIG file).

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A Quick access	SDB_Err.txt	3/11/2021 9:37 AM	Text Document	
Desktop 🖈	SDB_Msg.txt	3/11/2021 9:37 AM	Text Document	
🕂 Downloads 🛛 🖈	B_CONFIG	3/10/2021 12:38 PM	File	
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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	
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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	
	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	



Edit the DB\_CONFIG file and remove the comments (#'s) starting from the line **rep-set-priority 0** to make the machine a Replicant.

```
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 cread
#
# 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 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 (RRR.RRR.RRR.RRR used as Replicant IP example).
- Replace **master.tapetrack.com** with the IP address of **your** Master Server (MMM.MMM.MMM.MMM 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
File Edit Format View Help
set_verbose DB_VERB_WAITSFOR
#
#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 RRR.RRR.RRR.S010 db_local_site on
repmgr_site MMM.MMM.MMM 5010 db_bootstrap_helper on
rep_set_config DB_REP_CONF_BULK on
```



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

Start the TapeTrack service on the remote machine.

### **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..

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		Name	Date modified	Туре	Size
A Quick access		SDB_Err.txt	3/11/2021 9:37 AM	Text Document	
Desktop	А.	SDB_Msg.txt	3/11/2021 9:37 AM	Text Document	
Downloads	А.		3/11/2021 9:37 AM	001 File	
Documents	*		3/11/2021 9:37 AM	002 File	
Pictures	*		3/11/2021 9:37 AM	003 File	
TapeTrack	*	db.004	3/11/2021 9:37 AM	004 File	
		db.rep.diag00	3/11/2021 9:37 AM	DIAG00 File	
📥 OneDrive		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	
_		TMSS10.attribute-history.dump	3/8/2021 3:11 PM	DUMP File	
> 🕂 Downloads		TMSS10.attribute-history.save	3/8/2021 2:31 PM	SAVE File	
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Pictures		TMSS10.attributes.dump	3/8/2021 3:10 PM	DUMP File	
Videos		TMSS10.attributes.save	3/8/2021 2:31 PM	SAVE File	
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- Mataunah		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	>

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

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Permanent link: https://rtfm.tapetrack.com/server/replication?rev=1615416751

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