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).

| 📙 🗹 🖛 db | | | - 0 |
|-----------------|--|--------------------|--------------------|
| File Home Share | View | | |
| > • 🛧 📙 « Ta | peTrack > TapeTrack Framework Server > var | ∽ db < | , Search db |
| | Name | Date modified | Type Size |
| Deskton | SDB_Err.txt | 3/11/2021 9:37 AM | Text Document |
| | SDB_Msg.txt | 3/11/2021 9:37 AM | Text Document |
| Downloads # | DB_CONFIG | 3/10/2021 12:38 PM | File |
| Documents * | TMSS10.attribute-history | 3/8/2021 3:11 PM | ATTRIBUTE-HISTO |
| 📰 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 |
| Deskton | TMSS10.attributetype.dump | 3/8/2021 3:10 PM | DUMP File |
| Desurents | TMSS10.attributetype.save | 3/8/2021 2:31 PM | SAVE File |
| Documents | 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 |
| | 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_creat # # 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
```

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

| 📙 🛃 🖓 🖛 db | | | _ | |
|--------------------------|--|--------------------|--------------------|------------|
| File Home Sha | ire View | | | ~ ? |
| ← → × ↑ <mark>.</mark> « | TapeTrack > TapeTrack Framework Server > var | o v db∢ | | |
| V # Ouick access | Name | Date modified | Туре | Size ^ |
| Deskton | SDB_Err.txt | 3/11/2021 9:37 AM | Text Document | |
| Downloads | SDB_Msg.txt | 3/11/2021 9:37 AM | Text Document | |
| Downloads | db.001 | 3/11/2021 9:37 AM | 001 File | |
| Documents | | 3/11/2021 9:37 AM | 002 File | |
| Pictures | db.003 | 3/11/2021 9:37 AM | 003 File | |
| - TapeTrack | | 3/11/2021 9:37 AM | 004 File | |
| > 🔿 OneDrive | db.rep.diag00 | 3/11/2021 9:37 AM | DIAG00 File | |
| / Onebrive | 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 | |
| > - Downloads | TMSS10.attribute-history.dump | 3/8/2021 3:11 PM | DUMP File | |
| Music | TMSS10.attribute-history.save | 3/8/2021 2:31 PM | SAVE File | |
| | 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 | |
| Network | TMSS10.attributetype.dump | 3/8/2021 3:10 PM | DUMP File | |
| I WELWOIK | 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 | ¥ |
| 2251 | < | | | > |
| 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=1615416792

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