

# Executing Sync Using Netcat

## Prerequisites

- root or sudo privileges to install software and scripts.
- Knowledge of using vi or similar to create and enable scripts
- Netcat installed on your system, to check run the command `ncat -version`
- tcp access to the server TapeTrack database and Sync is installed on
- xinetd installed on the server TapeTrack database and Sync is installed on
- Knowledge on how to extract the Volume data from your backup server (eg TSM, NetBackup)

## Setting Up Sending Server

Create a script (eg `run-remote-sync.sh`) on your sending server, with executable permissions.

Add the required code to extract the Volume data to be Sync'd with your TapeTrack (receiving) Server into a text or CSV file.

```
vmquery -W -a > report.txt
```

Add the call Netcat, including the IP address and Port of the receiving server, along with the input data file. In the example the IP is `XXX.XXX.XXX.XXX` and Port `4545`, these need to be replaced with your actual IP and Port numbers.

You can also record the output from the Sync if required by redirecting the stdin stream to file (eg `Sync-output.txt`).

```
nc XXX.XXX.XXX.XXX 4545 < ./report.txt > Sync-output.txt
```

## Setting Up Receiving Server

Create an entry in the `/etc/services` file with the name of the service and port number and protocol. In this example we will use the service name `receive-sync` and the port `4545` to match the sending server details. These details can be modified to suit what name and port you require, as long as the sending and receiving ports match.

```
receive-sync 4545/tcp
```

Create the `xinetd` service file (`receive-sync`) in `/etc/xinetd.d` with the minimum code, with the optional inclusion of the `only_from = YYY.YYY.YYY.YYY`. Only use the `only_from` if your IP address (or range) remain static.

```
service receive-sync  
{
```

```
disable      = no
socket_type  = stream
protocol     = tcp
port         = 4545
wait         = no
user         = root
server       = /etc/tapetrack/scripts/runSync.sh
server_args  = -S user:-passwordt@localhost
only_from    = YYY.YYY.YYY.YYY
log_on_failure +=USERID
}
```

For other options see the Linux xinetd manual pages.

Restart the xinetd service to refresh the data.

```
systemctl restart xinetd
```

## Create Script To Execute When Port 4545 Request Is Received

Create a script at `/etc/tapetrack/scripts/runSync.sh` (or a location of your choice as long as the location matches the server address in the xinetd service file) and give it executable permissions.

Add the code to execute the Sync, including the full path to the ttidef file

```
#!/bin/bash
cd /etc/tapetrack/scripts/

/bin/TMSS10Sync -S user:-password@localhost -d netcat-sync.ttidef

exit
```

[technote](#), [netcat](#), [linux](#), [sync](#), [xinetd](#)

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