Migrate SMB data

XCP

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Migrate SMB data

After planning the migration with the `show` and `scan` commands, you can migrate the SMB data.

Copy

The `copy` command scans and copies the entire source directory structure to a destination SMB share. The `copy` command requires having source and destination paths as variables. The scanned and copied files, throughput/speed, and elapsed time details are printed to the console once every five seconds.

During the copy operation, you can use the `-preserve-atime` flag with the `copy` command to preserve access time at the source.

Example:

```
C:\xcp>xcp copy \\<source SMB share> \\<destination SMB share>
```

Run `xcp help copy` for more details.

Sync

The `sync` command scans for changes and modifications in the source and target shares in parallel, and applies the appropriate actions (remove, modify, rename, and so on) to the target to make sure that the target is identical to the source.

The sync command compares data content, time stamps, file attributes, ownership, and security information.

During the sync operation, you can use the `-preserve-atime` flag with the `sync` command to preserve access time at the source.

Example:

```
C:\xcp>xcp sync \\<source SMB share> \\<destination SMB share>
```

Run `xcp help sync` for more details.

Verify

The `verify` command reads both source and target shares and compares them, providing information about what is different. You can use the command on any source and destination, regardless of the tool used to perform the copy or sync.

During the verify operation, you can use the `-preserve-atime` flag with the `verify` command to preserve access time at the source.

Example:

```
C:\xcp>xcp verify \\<source SMB share> \\<destination SMB share>
```

Run `xcp help verify` for more details.

NTFS Alternate Data Streams migration for SMB

Beginning with XCP 1.9.3, XCP SMB supports migration of NTFS Alternate Data Streams (ADS) by using the `-ads` option with the XCP SMB commands.

Supported use cases

You can use the XCP SMB `copy` and `sync` commands to migrate data that includes ADS, and the XCP SMB `scan` command to scan the SMB share for ADS.

Supported XCP SMB commands

The following XCP SMB commands support the `-ads` option:

- `scan`
- `copy`
- `verify`
- `sync`

Command examples

The following example commands show how to use the `-ads` option:

- `xcp scan -ads \\<SMB share>`
- `xcp copy -ads \\<source SMB share> \\<destination SB share>`
- `xcp sync -ads \\<source SMB share> \\<destination SB share>`
- `xcp verify -ads \\<source SMB share> \\<destination SB share>`

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