





tmutil

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Description

A tool for managing Time Machine, the native macOS backup utility.

Created	Tactics	Tags
2023-05- 01	Impact Collection Privilege Escalation Defense Evasion	backup delete restore unprivileged

Paths

/usr/bin/tmutil

Use Cases

Disable Time Machine

The following command disables Time Machine. An attacker can use this to prevent backups from occurring.

tmutil disable

Delete a backup

The following command deletes the specified backup. An adversary may perform this action before launching a ransonware attack to prevent the victim from restoring their files.

```
tmutil delete /path/to/backup
```

Restore a backup

The following command restore the specified backup. An attacker can use this to restore a backup of a sensitive file that was deleted.

```
tmutil restore /path/to/backup
```

Tamper with system logs

An adversary can use the snapshot and restore commands together to tamper with system logs. This is fixed in macOS 10.15.4+.

```
mkdir /tmp/snapshot
tmutil localsnapshots
tmutil listlocalsnapshots /
mount_apfs -o noowners -s com.apple.TimeMachine.2023-05-01-090000.local /System/Volumes/Data
open /tmp/snapshot
sudo vim /var/log/system.log
tmutil restore com.apple.TimeMachine.2023-05-01-090000.local
```

Exclude path from backup

An adversary could exclude a path from Time Machine backups to prevent certain files from being backed up.

tmutil addexclusion /path/to/exclude

Detections

- Jamf Protect: Detect the deletion of localsnapshots
- Sigma: Time Machine Backup Deletion Attempt Via Tmutil MacOS
- Sigma: Time Machine Backup Disabled Via Tmutil MacOS
- Sigma: New File Exclusion Added To Time Machine Via Tmutil MacOS

Resources

- mount_apfs TCC bypass and privilege escalation
- Manage Time Machine backups
- Living-off-the-Land: Exploring macOS LOOBins and Crafting Detection Rules tmutil