

# tftp on MacOS v26 (Tahoe)

## [CANCELLED]

## preface

tftp was depreciated from macOS.

## lesson (might be useful)

Check is it available

```
ls /usr/libexec/tftpd
```

```
anton-w@ant1mbp7 ~ % ls /usr/libexec/tftpd  
/usr/libexec/tftpd
```

Create local tftp directory AS NORMAL user

```
export u="anton-w"  
export dir="/Users/${u}/delme/tftp"  
mkdir -p ${dir}  
cd ${dir}  
pwd
```

current status

```
netstat -f inet | grep tftp  
ls -liUDP:69  
ls -lnPi | grep ":69"
```

stop service and verify

```
export s="system/com.apple.tftpd"
launchctl stop ${s}
launchctl bootout ${s}
launchctl disable ${s}
launchctl remove ${s}
launchctl list | grep ${s}

netstat -f inet | grep tftp
lsof -iUDP:69
lsof -nPi | grep ":69"
```

default config has disabled option, override is needed

```
export f="/System/Library/LaunchDaemons/tftp.plist"
cat ${f} | grep com.apple.tftpd
cat ${f} | grep -i -A1 disabled
```

Create override

```
export f="/System/Library/LaunchDaemons/tftp.plist"
export fov="/Library/LaunchDaemons/local.tftp.plist"
cp ${f} ${fov}
ls -la ${fov}
vi ${fov}
```

Content

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple Computer//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>Disabled</key>
  <false/>
  <key>Label</key>
  <string>local.tftp</string>
  <key>ProgramArguments</key>
  <array>
    <string>/usr/libexec/tftpd</string>
    <string>-d</string>
```

```
<string>-l</string>
<string>-s</string>
<string>/Users/anton-w/delme/tftp</string>
<string>-u</string>
<string>anton-w</string>
</array>
<key>inetdCompatibility</key>
<dict>
  <key>Wait</key>
  <true/>
</dict>
<key>InitGroups</key>
<true/>
<key>Sockets</key>
<dict>
  <key>Listeners</key>
  <dict>
    <key>SockServiceName</key>
    <string>tftp</string>
    <key>SockType</key>
    <string>dgram</string>
  </dict>
</dict>
</dict>
</plist>
```

## Verify plist file

```
cat ${fov} | grep -i -A1 disabled
plutil -lint ${fov}
```

## Set ownership and permissions

```
ls -la ${fov}
chown root:wheel ${fov}
chmod 644 ${fov}
ls -la ${fov}
```

## Enable service

```
export s="system/local.tftp"
```

```
launchctl stop ${s}
```

```
launchctl bootout ${s}
```

```
launchctl disable ${s}
```

```
launchctl remove ${s}
```

```
launchctl list | grep ${s}
```

```
launchctl enable ${s}
```

```
export f="/Library/LaunchDaemons/local.tftp.plist"
```

```
launchctl load -wF ${f}
```

```
# launchctl bootstrap system ${s}
```

```
launchctl start ${s}
```

```
launchctl list ${s}
```

```
launchctl print ${s} | grep state
```

New file should be in the dump

```
launchctl dumpstate | grep ".plist" | grep ftp
```

```
sh-3.2#  
sh-3.2# launchctl dumpstate | grep ".plist" | grep ftp  
    path = /System/Library/LaunchDaemons/com.apple.ftp-proxy.plist  
    path = /Library/LaunchDaemons/local.tftp.plist  
sh-3.2# █
```

Verify that default TFTP root exists

```
ls -la /private/tftpboot
```

Create if missing

```
sudo mkdir -p /private/tftpboot
```

```
sudo chmod 777 /private/tftpboot
```

Verify tftp is listening on

```
netstat -f inet | grep tftp
```

```
netstat -an | grep "*.69"
```

```
netstat -atp UDP | grep tftp
lsuf -iUDP:69
lsuf -nPi | grep ":69"
```

## Check state firewall

```
sudo /usr/libexec/ApplicationFirewall/socketfilterfw --getglobalstate
```

if needed, create a rule to allow

```
sudo /usr/libexec/ApplicationFirewall/socketfilterfw --add /usr/libexec/tftpd
sudo /usr/libexec/ApplicationFirewall/socketfilterfw --unblockapp /usr/libexec/tftpd
```

I am using Little Snitch, thus my native firewall is disabled.

TFTP daemon is set up and ready to receive/transmit files.

## troubleshooting

```
launchctl dumpstate | grep ".plist" | grep ftp
```

```
log stream --style syslog --predicate 'process == "launchctl"'
log stream --style syslog --predicate 'subsystem == "com.apple.xpc.launchctl"'
log show --last 5m --style syslog --predicate 'subsystem == "com.apple.xpc.launchctl"'
```

## Start daemon manually

```
❏ /usr/libexec/tftpd \
❏ -d \
❏ -l \
❏ -s \
❏ /Users/anton-w/delme/tftp \
❏ -u \
❏ anton-w
```

File exist, is executable , but does not do anything.

```
pkgutil --file-info /usr/libexec/tftpd
# no package provides
codesign -dv /usr/libexec/tftpd
# has not authority
csrutil authenticated-root status
```

```
file /usr/libexec/tftpd  
mount | grep "sealed"
```

[Go home.](#)

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Revision #3

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