

Imaging - Debug

1. Boot Recovery

Set tftp to verbose mode:

In `/etc/default/tftpd-hpa`, add `-v` to the `TFTP_OPTIONS` parameter and restart the `tftpd-hpa` service

In the tftp logs (`/var/log/syslog` or `journalctl --unit tftpd-hpa --follow`), look for these lines:

```
in.tftpd[491332]: RRQ from 10.104.108.113 filename bootloader-uefi64/ipxe.efi
in.tftpd[491333]: RRQ from 10.104.108.113 filename bootloader-uefi64/autoexec.ipxe
```

If these lines do not exist, it is a DHCP issue

To debug TFTP, capture the frames:

```
tcpdump -s 0 host <CLIENT_IP> and udp
```

To test a TFTP connection:

```
tftp <SERVER_IP> get bootloader-uefi64/ipxe.efi
```

2. Retrieving the boot menu

In the Apache logs, locate this line:

```
"GET /mmc/imaging/bootmenu.php?mac=54:bf:64:5c:77:25&uuid=4c4c4544-0057-3210-8053-c4c04f4b5132&...
)"
```

If it does not exist, there is an access issue with the Apache server

3. Davos Recovery

In the Apache logs, look for these lines:

```
"GET /downloads/davos/ipxe.png HTTP/1.1" 404 489 "-" "iPXE/1.21.1+ (gdd35)"
"GET /downloads/davos/vmlinuz HTTP/1.1" 200 15403668 "-" "iPXE/1.21.1+ (gdd35)"
"GET /downloads/davos/initrd.img HTTP/1.1" 200 64921280 "-" "iPXE/1.21.1+ (gdd35)"
"GET /downloads/davos/fs.squashfs HTTP/1.1" 200 1041178859 "-" "Wget"
```

If they do not exist, this is an access issue with the Apache server

Once these steps have been verified, refer to "Debugging Davos"

If you cannot find the save option when you reach the PXE menu, check the following lines in the `tftpd-hpa` logs:

In the tftp logs (`/var/log/syslog` or `journalctl --unit tftpd-hpa --follow`), look for these lines:

```
in.tftpd[357001]: tftp: client does not accept options
```

If this line appears, restart your tftpd-hpa service

```
systemctl restart tftpd-hpa
```

If the problem persists, check for a phantom tftpd-hpa service and restart your server. Then restart the tftpd-hpa service again.

Revision #1

Created 2026-04-30 07:38:27 UTC by Adrien Thaisse

Updated 2026-04-30 07:38:27 UTC by Adrien Thaisse