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| Guide for Upgrading NIC Card Firmware Under Linux operating system |
| R1.0 |

1、MFT tool upload and installation

1. Install the toolkit mft-4.18.0-106-x86\_ 64 rpm. tgz, upload to the Linux operating system on the server, such as in the/home directory.
2. Extract the MFT tool compressed file from the root user.

#tar -zxvf mft-4.14.4-6-x86\_64-rpm.tgz

1. Enter the tool directory.

#cd mft-4.14.4-6-x86\_64-rpm/

1. Execute the installation script.

#./install.sh --oem

(Note: If you are a non root user, authorization is required before installing. Command: chmod +x \*)

2、Upload network card firmware file

Copy the firmware version file of the network card, such as fw-ConnectX5-rel-16\_32\_1010-MCX562A-ACA\_Ax\_Bx-UEFI-14.25.17-FlexBoot-3.6.502.bin to the decompression directory of the MFT tool.

3、Firmware upgrade

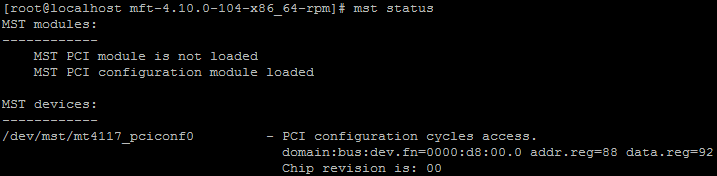
1. Start MFT tool

#mst start

1. Scan the NS312 network card in the system

#mst status

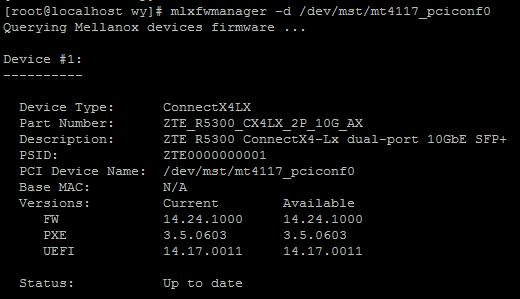
As shown in the following figure, the network card device is/dev/mst/mt4117\_pciconf0.(Note that the numbers highlighted in red may vary depending on the network card)



1. Confirm the firmware version of the network card before upgrading

# mlxfwmanager -d /dev/mst/mt4117\_pciconf0

As shown in the figure below, the current firmware version is---14.24.1000



1. Upgrade firmware, such as:

#flint -d /dev/mst/mt4117\_pciconf0 -i fw-ConnectX5-rel-16\_32\_1010-MCX562A-ACA\_Ax\_Bx-UEFI-14.25.17-FlexBoot-3.6.502.bin -y burn to convert/dev/mst/mt4117\_ PCICONF0 device firmware upgrade.

1. If there are multiple network cards, after scanning with the # mst status command, multiple network card devices will appear, such as:

/dev/mst/mt4117\_pciconf0

/dev/mst/mt4117\_pciconf1

/dev/mst/mt4117\_pciconf2

When upgrading firmware, it is necessary to select the network card that needs to be upgraded, such as:

#flint -d /dev/mst/mt4117\_pciconf2 -i fw-ConnectX5-rel-16\_32\_1010-MCX562A-ACA\_Ax\_Bx-UEFI-14.25.17-FlexBoot-3.6.502.bin -y burn to upgrade/dev/mst/mt4117\_ PCICONF2 device.

4、Restart the system

1. After the firmware upgrade is completed, a restart of the operating system is required to take effect.
2. Suggest executing the # reboot command within the system to restart the operating system; Or execute the shutdown command to shut down and restart the server.

5、Firmware version check

After the system restarts, enter the directory extracted by the MFT tool and check that the firmware version has been upgraded to the target version.

#mlxfwmanager -d /dev/mst/mt4117\_pciconf0

As shown in the figure below, the firmware version is 14.29.1016

