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## Updating Intel NIC firmware(NVM) and drivers on VyOS

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In case your setup requires firmware/driver update for your Intel NIC 500/700/800 series for software changes, performance or security enhancements, the following steps can be performed on the VyOS running device to accomplish this task:

- Check current firmware/driver version

```
ethtool -i ethX
```

- Download the official software package provided for your NIC if update is required

```
wget
```

```
https://downloadmirror.intel.com/24769/eng/700series\_nvupdatepackage\_v8\_40.zip
```

- Unarchive downloaded package and navigate to the extracted directory

```
unzip 700series_nvupdatepackage_v8_40.zip  
cd 700Series/Linux_x64
```

or

```
tar -xzvf 700Series_NVUpdatePackage_v8_40_Linux.tar.gz  
cd 700Series/Linux_x64
```

- Change NVM update tool executable permissions

```
chmod 755 nvupdate64e
```

- Run the update tool as a sudoer and follow instructions (you'll be asked to specify which NIC requires to be updated)

```
sudo ./nvupdate64e
```

For more detail information about Intel NIC firmware/drivers update please refer to the following documentation:

<https://www-ssl.intel.com/content/www/us/en/embedded/products/networking/nvm-update-t>

[ool-quick-linux-usage-guide.html](#)