



# **BlueField Modes of Operation Configuration**

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## Getting Mode of Operation

```
curl -k -u root:'<PASSWORD>' -X GET  
https://<bmc_ip>/redfish/v1/Systems/Bluefield/Oem/Nvidia
```

### Info

Current setting appears under `Mode`.

## Setting DPU Mode

1. Run the following Redfish commands:

- For NVIDIA® BlueField®-3:

```
curl -k -u root:'<PASSWORD>' -H "Content-Type:  
application/json" -X POST -d '{"Mode":"DpuMode"}'  
https://<bmc_ip>/redfish/v1/Systems/Bluefield/Oem/Nvidia/A
```

- For BlueField-2:

```
curl -k -u root:'' -H "Content-Type: application/json" -  
X PATCH -d '{"Attributes":{"NicMode":"DpuMode"}}'  
https:///redfish/v1/Systems/Bluefield/Bios/Settings
```

2. Reboot the BlueField Arm cores twice.

- To reboot Arm cores from the Arm OS:

```
reboot
```

- To reboot Arm cores from the remote host:

```
'echo "SW_RESET 1" > /dev/rshim0/misc
```

3. Power cycle BlueField by running the following command from the remote host :

```
ipmitool chassis power cycle
```

## Setting NIC Mode

1. Run the following Redfish commands:

- For BlueField-3:

```
curl -k -u root:'<PASSWORD>' -H "Content-Type: application/json" -X POST -d '{"Mode": "NicMode"}' https://<bmc_ip>/redfish/v1/Systems/Bluefield/Oem/Nvidia/A
```

- For BlueField-2:

```
curl -k -u root:'' -H "Content-Type: application/json" -X PATCH -d '{"Attributes":{"NicMode": "NicMode"}}' https:///redfish/v1/Systems/Bluefield/Bios/Settings
```

2. Reboot the BlueField Arm cores twice.

- To reboot Arm cores from the Arm OS:

```
reboot
```

- To reboot Arm cores from the remote host:

```
'echo "SW_RESET 1" > /dev/rshim0/misc
```

3. Power cycle BlueField by running the following command from the remote host :

```
ipmitool chassis power cycle
```

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