



## **RShim Over USB**

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# Network Connection from BMC to BlueField

By default, the BMC and NVIDIA® BlueField® interfaces are configured as follows (static IPs and MACs):

	BMC	BlueField
Interface Name	"tmfifo_net0"	"tmfifo_net0"
MAC Address	00:1A:CA:FF:FF:02	00:1A:CA:FF:FF:01
IP Address	192.168.100.1	192.168.100.2

## Enabling RShim on BlueField BMC

1. Disable RShim on the host. Run the following on the host:

```
systemctl stop rshim  
systemctl disable rshim
```

### Info

If the RShim driver is not installed on the host, this step can be skipped.

2. Enable RShim on the BMC using the Redfish interface:

```
curl -k -u root:'<password>' -H "Content-Type:  
application/json" -X PATCH -d '{  
  "BmcRShim": {  
    "BmcRShimEnabled": true  
  }  
'
```

```
}'  
https://<bmc_ip>/redfish/v1/Managers/Bluefield_BMC/Oem/Nvidia
```

### **(i) Note**

RShim can be force enabled on BMC even it is started on host.  
The previous steps are not necessary in this case:

```
curl -k -u root:'<password>' -H "Content-  
Type: application/json" -X POST -d '{"Rshim":  
"Forced"}'  
https://<bmc_ip>/redfish/v1/Managers/Bluefield_BMC/Action  
0000019b-22f7-dcdf-a9fb-b6f792ef0000
```

3. Check the current `BmcRShimEnabled` value and wait until it changes to `true`:

```
curl -k -u root:'<password>' -H "Content-Type:  
application/json" -X GET  
https://<bmc_ip>/redfish/v1/Managers/Bluefield_BMC/Oem/Nvidia
```

### **(i) Info**

This may take up to 8 seconds. If the `BmcRShimEnabled` value does not change, disable BMC RShim by setting the value to `false` then repeating steps 1-3.

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