



Rocky Enterprise Linux 9.2 Manual Pages on command 'devlink-dev.8'

C:\>man devlink-dev.8

DEVLINK-DEV(8) Linux DEVLINK-DEV(8)

NAME

devlink-dev - devlink device configuration

SYNOPSIS

devlink [OPTIONS] dev { COMMAND | help }

OPTIONS := { -V[ersion] | -n[no-nice-names] }

devlink dev show [DEV]

devlink dev help

devlink dev eswitch set DEV [mode { legacy | switchdev }] [inline-mode { none | link | network | transport }] [encap { disable | enable }]

devlink dev eswitch show DEV

devlink dev param set DEV name PARAMETER value VALUE cmode { runtime | driverinit | permanent }

devlink dev param show [DEV name PARAMETER]

devlink dev reload DEV [netns { PID | NAME | ID }]

devlink dev info [DEV]

devlink dev flash DEV file PATH [target ID]

DESCRIPTION

devlink dev show - display devlink device attributes

DEV - specifies the devlink device to show. If this argument is omitted all devices are listed.

vices are listed.

Format is:

BUS_NAME/BUS_ADDRESS

devlink dev eswitch show - display devlink device eswitch attributes

devlink dev eswitch set - sets devlink device eswitch attributes

mode { legacy | switchdev }

Set eswitch mode

legacy - Legacy SRIOV

switchdev - SRIOV switchdev offloads

inline-mode { none | link | network | transport }

Some HWs need the VF driver to put part of the packet headers on the TX descriptor so the e-switch can do proper matching and steering.

none - None

link - L2 mode

network - L3 mode

transport - L4 mode

encap { disable | enable }

Set eswitch encapsulation support

disable - Disable encapsulation support

enable - Enable encapsulation support

devlink dev param set - set new value to devlink device configuration parameter

name PARAMETER

Specify parameter name to set.

value VALUE

New value to set.

cmode { runtime | driverinit | permanent }

Configuration mode in which the new value is set.

runtime - Set new value while driver is running. This configuration mode doesn't require any reset to apply the new value.

driverinit - Set new value which will be applied during driver initialization. This configuration mode requires restart driver by devlink reload command to apply the new value.

permanent - New value is written to device's non-volatile memory. This configuration mode requires hard reset to apply the new value.

devlink dev param show - display devlink device supported configuration parameters at?

tributes

name PARAMETER Specify parameter name to show. If this argument is omitted all pa?

rameters supported by devlink devices are listed.

devlink dev reload - perform hot reload of the driver.

DEV - Specifies the devlink device to reload.

netns { PID | NAME | ID } - Specifies the network namespace to reload into, either by pid, name or id.

devlink dev info - display device information.

Display device information provided by the driver. This command can be used to query versions of the hardware components or device components which can't be up? dated (fixed) as well as device firmware which can be updated. For firmware com? ponents running displays the versions of firmware currently loaded into the device, while stored reports the versions in device's flash. Running and stored versions may differ after flash has been updated, but before reboot.

DEV - specifies the devlink device to show. If this argument is omitted all de? vices are listed.

devlink dev flash - write device's non-volatile memory.

DEV - specifies the devlink device to write to.

file PATH - Path to the file which will be written into device's flash. The path needs to be relative to one of the directories searched by the kernel firmware loaded, such as /lib/firmware.

component NAME - If device stores multiple firmware images in non-volatile memory, this parameter may be used to indicate which firmware image should be written. The value of NAME should match the component names from devlink dev info and may be driver-dependent.

EXAMPLES

```
devlink dev show
```

Shows the state of all devlink devices on the system.

```
devlink dev show pci/0000:01:00.0
```

Shows the state of specified devlink device.

```
devlink dev eswitch show pci/0000:01:00.0
```

Shows the eswitch mode of specified devlink device.

```
devlink dev eswitch set pci/0000:01:00.0 mode switchdev
```

Sets the eswitch mode of specified devlink device to switchdev.

```
devlink dev param show pci/0000:01:00.0 name max_macs
```

Shows the parameter max_macs attributes.

```
devlink dev param set pci/0000:01:00.0 name internal_error_reset value true cmode  
runtime
```

Sets the parameter internal_error_reset of specified devlink device to true.

```
devlink dev reload pci/0000:01:00.0
```

Performs hot reload of specified devlink device.

```
devlink dev flash pci/0000:01:00.0 file firmware.bin
```

Flashes the specified devlink device with provided firmware file name. If the driver supports it, user gets updates about the flash status. For example:

```
Preparing to flash
```

```
Flashing 100%
```

```
Flashing done
```

SEE ALSO

devlink(8), devlink-port(8), devlink-sb(8), devlink-monitor(8),

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iproute2

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