

Full credit is given to the above companies including the OS that this PDF file was generated!

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

\$ man devlink-port.8

DEVLINK-PORT(8) Linux **DEVLINK-PORT(8)** NAME devlink-port - devlink port configuration **SYNOPSIS** devlink [OPTIONS] port { COMMAND | help } OPTIONS := { -V[ersion] | -n[no-nice-names] } devlink port set DEV/PORT_INDEX [type { eth | ib | auto }] devlink port split DEV/PORT_INDEX count COUNT devlink port unsplit DEV/PORT_INDEX devlink port show [DEV/PORT_INDEX] devlink port health { show | recover | diagnose | dump | set } devlink port add { DEV | DEV/PORT_INDEX } [flavour FLAVOUR] [pfnum PFNUMBER] [sfnum SFNUMBER] [controller CNUM] devlink port del DEV/PORT_INDEX devlink port function set DEV/PORT_INDEX [hw_addr ADDR] [state { ac? tive | inactive }] devlink port function rate { show | set | add | del | help }

devlink dev param set DEV/PORT_INDEX name PARAMETER value VALUE cmode {

```
runtime | driverinit | permanent }
    devlink dev param show [ DEV/PORT_INDEX name PARAMETER ]
    devlink port help
DESCRIPTION
 devlink port set - change devlink port attributes
    DEV/PORT_INDEX - specifies the devlink port to operate on.
      Format is:
        BUS_NAME/BUS_ADDRESS/PORT_INDEX
    type { eth | ib | auto }
        set port type
        eth - Ethernet
        ib - Infiniband
        auto - autoselect
 devlink port split - split devlink port into more
    DEV/PORT_INDEX - specifies the devlink port to operate on.
    count COUNT
        number of ports to split to.
 devlink port unsplit - unsplit previously split devlink port
    Could be performed on any split port of the same split group.
    DEV/PORT_INDEX - specifies the devlink port to operate on.
 devlink port show - display devlink port attributes
    DEV/PORT_INDEX - specifies the devlink port to show. If this argument
    is omitted all ports are listed.
 devlink port health - devlink health reporting and recovery
    Is an alias for devlink-health(8).
 devlink port add - add a devlink port
    DEV - specifies the devlink device to operate on. or
    DEV/PORT_INDEX - specifies the devlink port index to use for the re?
    quested new port. This is optional. When omitted, driver allocates
    unique port index.
    flavour { pcipf | pcisf }
        set port flavour
```

pcipf - PCI PF port Page 2/6

```
pcisf - PCI SF port
  pfnum PFNUMBER
      Specifies PCI pfnumber to use on which a SF device to create
  sfnum SFNUMBER
      Specifies sfnumber to assign to the device of the SF. This
      field is optional for those devices which supports auto assign?
      ment of the SF number.
  controller CNUM
      Specifies controller number for which the SF port is created.
      This field is optional. It is used only when SF port is created
      for the external controller.
devlink port function set - Set the port function attribute(s).
  DEV/PORT_INDEX - specifies the devlink port to operate on.
  hw_addr ADDR
      Hardware address of the function to set. This is a Ethernet MAC
      address when port type is Ethernet.
  state { active | inactive }
      New state of the function to change to.
      active - Once configuration of the function is done, activate
      the function.
      inactive - To inactivate the function and its device(s), set to
      inactive.
devlink port del - delete a devlink port
  DEV/PORT_INDEX - specifies the devlink port to delete.
devlink port param set - set new value to devlink port configuration param?
  eter
  DEV/PORT_INDEX - specifies the devlink port to operate on.
  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 configura? tion 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 mem? ory. This configuration mode requires hard reset to apply the new value.

devlink port param show - display devlink port supported configuration pa?
rameters attributes

DEV/PORT_INDEX - specifies the devlink port to operate on.

name PARAMETER Specify parameter name to show. If this argument, as well as port index, are omitted - all parameters supported by devlink device ports are listed.

devlink port function rate - manage devlink rate objects
Is an alias for devlink-rate(8).

EXAMPLES

devlink port show

Shows the state of all devlink ports on the system.

devlink port show pci/0000:01:00.0/1

Shows the state of specified devlink port.

devlink port set pci/0000:01:00.0/1 type eth

Set type of specified devlink port to Ethernet.

devlink port split pci/0000:01:00.0/1 count 4

Split the specified devlink port into four ports.

devlink port unsplit pci/0000:01:00.0/1

Unplit the specified previously split devlink port.

devlink port health show

Shows status and configuration of all supported reporters regis? tered on all devlink ports.

devlink port health show pci/0000:01:00.0/1 reporter tx

Shows status and configuration of tx reporter registered on

pci/0000:01:00.0/1 devlink port.

devlink port add pci/0000:06:00.0 flavour pcisf pfnum 0 sfnum 88 Add a devlink port of flavour PCI SF on PCI PF having number 0 with SF number 88. To make use of the function an example sequence is to add a port, configure the function attribute and activate the function. Once function usage is completed, inactivate the function and finally delete the port. When there is desire to reuse the port without deletion, it can be reconfigured and activated again when function is in inactive state and function's operational state is detached.

devlink port del pci/0000:06:00.0/1

Delete previously created devlink port. It is recommended to first deactivate the function if the function supports state management.

devlink port function set pci/0000:01:00.0/1 hw_addr 00:00:00:11:22:33 Configure hardware address of the PCI function represented by de? vlink port. If the port supports change in function state, hard? ware address must be configured before activating the function.

devlink port function set pci/0000:01:00.0/1 state active Activate the function. This will initiate the function enumeration and driver loading.

devlink port function set pci/0000:01:00.0/1 state inactive Deactivate the function. This will initiate the function teardown which results in driver unload and device removal.

devlink port function set pci/0000:01:00.0/1 hw_addr 00:00:00:11:22:33 state active

Configure hardware address and also active the function. When a function is activated together with other configuration in a single command, all the configuration is applied first before changing the state to active.

devlink dev param show

Shows (dumps) all the port parameters across all the devices regis? tered in the devlink.

devlink dev param set pci/0000:01:00.0/1 name internal_error_reset value true cmode runtime

Page 5/6

Sets the parameter internal_error_reset of specified devlink port (#1) to true.

devlink port add pci/0000:06:00.0 flavour pcisf pfnum 0 sfnum 88 con? troller 1

Add a devlink port of flavour PCI SF on controller 1 which has PCI PF of number 0 with SF number 88. To make use of the function an example sequence is to add a port, configure the function attribute and activate the function. Once the function usage is completed, deactivate the function and finally delete the port. When there is desire to reuse the port without deletion, it can be reconfigured and activated again when function is in inactive state and func? tion's operational state is detached.

SEE ALSO

devlink(8), devlink-dev(8), devlink-sb(8), devlink-monitor(8), devlink-health(8),

AUTHOR

Jiri Pirko <jiri@mellanox.com>

iproute2 14 Mar 2016 DEVLINK-PORT(8)