NAME

ovn-nbctl - Open Virtual Network northbound db management utility

SYNOPSYS

ovn-nbctl [options] command [arg...]

DESCRIPTION

This utility can be used to manage the OVN northbound database.

GENERAL COMMANDS

show [lswitch]

Prints a brief overview of the database contents. If *lswitch* is provided, only records related to that logical switch are shown.

LOGICAL SWITCH COMMANDS

lswitch-add [*lswitch*]

Creates a new logical switch named *lswitch*. If *lswitch* is not provided, the switch will not have a name so other commands must refer to this switch by its UUID. Initially the switch will have no ports.

lswitch-del *lswitch*

Deletes lswitch.

lswitch-list

Lists all existing switches on standard output, one per line.

Iswitch-set-external-id *lswitch key* [value]

Sets or clears an "external ID" value on *lswitch*. These values are intended to identify entities external to OVN with which *lswitch* is associated. The OVN Northbound database schema may specify well-known *key* values, but *key* and *value* are otherwise arbitrary strings.

If *value* is specified, then *key* is set to *value* for *lswitch*, overwriting any previous value. If *value* is omitted, then *key* is removed from *lswitch*'s set of external IDs (if it was present.

lswitch-get-external-id *lswitch* [*key*]

Queries the external IDs on *lswitch*. If *key* is specified, the output is the value for that *key* or the empty string if *key* is unset. If *key* is omitted, the output is *key=value*, one per line, for each key-value pair.

ACL COMMANDS

[--log] acl-add lswitch direction priority match action

Adds the specified ACL to *lswitch*. *direction* must be either **from-lport** or **to-lport**. *priority* must be between **1** and **65534**, inclusive. If **--log** is specified, packet logging is enabled for the ACL. A full description of the fields are in **ovn-nb**(5).

acl-del lswitch [direction [priority match]]

Deletes ACLs from *lswitch*. If only *lswitch* is supplied, all the ACLs from the logical switch are deleted. If *direction* is also specified, then all the flows in that direction will be deleted from the logical switch. If all the fields are given, then a single flow that matches all the fields will be deleted.

acl-list lswitch

Lists the ACLs on lswitch.

LOGICAL PORT COMMANDS

lport-add *lswitch lport*

Creates on *lswitch* a new logical port named *lport*.

lport-add *lswitch lport parent tag*

Creates on *lswitch* a logical port named *lport* that is a child of *parent* that is identified with VLAN ID *tag*. This is useful in cases such as virtualized container environments where

Open vSwitch does not have a direct connection to the container's port and it must be shared with the virtual machine's port.

lport-del lport

Deletes lport.

lport-list lswitch

Lists all the logical ports within *lswitch* on standard output, one per line.

lport-**get**-**parent** *lport*

If set, get the parent port of *lport*. If not set, print nothing.

lport-get-tag lport

If set, get the tag for *lport* traffic. If not set, print nothing.

lport-set-external-id lport key [value]

Sets or clears an "external ID" value on *lport*. These values are intended to identify entities external to OVN with which *lport* is associated. The OVN Northbound database schema may specify well-known *key* values, but *key* and *value* are otherwise arbitrary strings.

If *value* is specified, then *key* is set to *value* for *lport*, overwriting any previous value. If *value* is omitted, then *key* is removed from *lport*'s set of external IDs (if it was present.

lport-get-external-id lport [key]

Queries the external IDs on *lport*. If *key* is specified, the output is the value for that *key* or the empty string if *key* is unset. If *key* is omitted, the output is *key=value*, one per line, for each key-value pair.

lport-set-macs *lport* [mac]...

Sets the MACs associated with *lport* to *mac*. Multiple MACs may be sets by using multiple *mac* arguments. If no *mac* argument is given, *lport* will have no MACs associated with it.

lport-**get**-**macs** *lport*

Lists all the MACs associated with *lport* on standard output, one per line.

lport-**set**-**port**-**security** *lport* [addrs]...

Sets the port security addresses associated with *lport* to *addrs*. Multiple sets of addresses may be set by using multiple *addrs* arguments. If no *addrs* argument is given, *lport* will not have port security enabled.

Port security limits the addresses from which a logical port may send packets and to which it may receive packets. See the **ovn-nb**(5) documentation for the **port_security** column in the **Logical_Port** table for details.

lport-get-port-security lport

Lists all the port security addresses associated with *lport* on standard output, one per line.

lport-**get**-**up** *lport*

Prints the state of *lport*, either **up** or **down**.

lport-set-enabled lport state

Set the administrative state of *lport*, either **enabled** or **disabled**. When a port is disabled, no traffic is allowed into or out of the port.

lport-get-enabled lport

Prints the administrative state of *lport*, either **enabled** or **disabled**.

lport-set-type *lport type*

Set the type for the logical port. No special types have been implemented yet.

lport-**get**-**type** *lport*

Get the type for the logical port.

lport-**set**-**options** *lport* [*key*=*value*]...

Set type-specific key-value options for the logical port.

lport-get-options lport

Get the type-specific options for the logical port.

OPTIONS

--**db** database

The OVSDB database remote to contact. If the OVN_NB_DB environment variable is set, its value is used as the default. Otherwise, the default is unix:/var/run/open-vswitch/db.sock, but this default is unlikely to be useful outside of single-machine OVN test environments.

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-h | --help
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- $-o \mid -\!\!-\!\!options$
- $-V \mid --version$

LOGGING OPTIONS

- -vspec, --verbose=spec
- -v, --verbose
- --log-file[=file]
- --syslog-target=host:port

PKI CONFIGURATION (REQUIRED TO USE SSL)

- -p, --private-key=file file with private key
- -c, --certificate=file file with certificate for private key
- -C, --ca-cert=file file with peer CA certificate