NAME
vtep-ctl – utility for querying and configuring a VTEP database

SYNOPSIS
vtep-ctl [options] −− [options] command [args] [−− [options] command [args]]...

DESCRIPTION
The vtep-ctl program configures a VTEP database. See vtep(5) for comprehensive documentation of the database schema.

vtep-ctl connects to an ovsdb-server process that maintains a VTEP configuration database. Using this connection, it queries and possibly applies changes to the database, depending on the supplied commands.

vtep-ctl can perform any number of commands in a single run, implemented as a single atomic transaction against the database.

The vtep-ctl command line begins with global options (see OPTIONS below for details). The global options are followed by one or more commands. Each command should begin with −− by itself as a command-line argument, to separate it from the following commands. (The −− before the first command is optional.) The command itself starts with command-specific options, if any, followed by the command name and any arguments. See EXAMPLES below for syntax examples.

OPTIONS
The following options affect the behavior vtep-ctl as a whole. Some individual commands also accept their own options, which are given just before the command name. If the first command on the command line has options, then those options must be separated from the global options by −−.

−−db=server
Sets server as the database server that vtep-ctl contacts to query or modify configuration. server may be an OVSDB active or passive connection method, as described in ovsdb(7). The default is unix:/usr/local/var/run/openvswitch/db.sock.

−−no−syslog
By default, vtep-ctl logs its arguments and the details of any changes that it makes to the system log. This option disables this logging.

This option is equivalent to −−verbose=vtep_ctl:syslog:warn.

−−oneline
Modifies the output format so that the output for each command is printed on a single line. New-line characters that would otherwise separate lines are printed as \n, and any instances of \ that would otherwise appear in the output are doubled. Prints a blank line for each command that has no output. This option does not affect the formatting of output from the list or find commands; see Table Formatting Options below.

−−dry−run
Prevents vtep-ctl from actually modifying the database.

−t secs
−−timeout=secs
By default, or with a secs of 0, vtep-ctl waits forever for a response from the database. This option limits runtime to approximately secs seconds. If the timeout expires, vtep-ctl will exit with a SIGALRM signal. (A timeout would normally happen only if the database cannot be contacted, or if the system is overloaded.)

Table Formatting Options
These options control the format of output from the list and find commands.

−f format
−−format=format
Sets the type of table formatting. The following types of format are available:
table 2-D text tables with aligned columns.
list (default)
    A list with one column per line and rows separated by a blank line.
html HTML tables.
csv Comma-separated values as defined in RFC 4180.
json JSON format as defined in RFC 4627. The output is a sequence of JSON objects, each of
    which corresponds to one table. Each JSON object has the following members with the
    noted values:

    caption The table’s caption. This member is omitted if the table has no caption.
    headings
        An array with one element per table column. Each array element is a string giving
        the corresponding column’s heading.
    data
        An array with one element per table row. Each element is also an array with one
        element per table column. The elements of this second-level array are the cells
        that constitute the table. Cells that represent OVSDB data or data types are ex-
        pressed in the format described in the OVSDB specification; other cells are sim-
        ply expressed as text strings.

−d format
−−data=format
    Sets the formatting for cells within output tables unless the table format is set to json, in which
    case json formatting is always used when formatting cells. The following types of format are
    available:

    string (default)
        The simple format described in the Database Values section of ovs-vsctl(8).
    bare The simple format with punctuation stripped off: [] and {} are omitted around sets, maps,
    and empty columns, items within sets and maps are space-separated, and strings are never
    quoted. This format may be easier for scripts to parse.
    json The RFC 4627 JSON format as described above.

−−no−headings
    This option suppresses the heading row that otherwise appears in the first row of table output.

−−pretty
    By default, JSON in output is printed as compactly as possible. This option causes JSON in out-
    put to be printed in a more readable fashion. Members of objects and elements of arrays are
    printed one per line, with indentation.
    This option does not affect JSON in tables, which is always printed compactly.

−−bare Equivalent to −−format=list −−data=bare −−no−headings.
−−max−column-width=n
    For table output only, limits the width of any column in the output to n columns. Longer cell data
    is truncated to fit, as necessary. Columns are always wide enough to display the column names, if
    the heading row is printed.

Public Key Infrastructure Options
−p privkey.pem
−−private−key=privkey.pem
    Specifies a PEM file containing the private key used as vtep-ctl’s identity for outgoing SSL con-
    nections.
vtep−ctl(8) Open vSwitch Manual vtep−ctl(8)

−c cert.pem
−−certificate=cert.pem
Specifies a PEM file containing a certificate that certifies the private key specified on −p or −−private−key to be trustworthy. The certificate must be signed by the certificate authority (CA) that the peer in SSL connections will use to verify it.

−C cacert.pem
−−ca−cert=cacert.pem
Specifies a PEM file containing the CA certificate that vtep−ctl should use to verify certificates presented to it by SSL peers. (This may be the same certificate that SSL peers use to verify the certificate specified on −c or −−certificate, or it may be a different one, depending on the PKI design in use.)

−C none
−−ca−cert=none
Disables verification of certificates presented by SSL peers. This introduces a security risk, because it means that certificates cannot be verified to be those of known trusted hosts.

−−bootstrap−ca−cert=cacert.pem
When cacert.pem exists, this option has the same effect as −C or −−ca−cert. If it does not exist, then vtep−ctl will attempt to obtain the CA certificate from the SSL peer on its first SSL connection and save it to the named PEM file. If it is successful, it will immediately drop the connection and reconnect, and from then on all SSL connections must be authenticated by a certificate signed by the CA certificate thus obtained.

This option exposes the SSL connection to a man-in-the-middle attack obtaining the initial CA certificate, but it may be useful for bootstrapping.

This option is only useful if the SSL peer sends its CA certificate as part of the SSL certificate chain. The SSL protocol does not require the server to send the CA certificate.

This option is mutually exclusive with −C and −−ca−cert.

−−peer−ca−cert=peer-cacert.pem
Specifies a PEM file that contains one or more additional certificates to send to SSL peers. peer-cacert.pem should be the CA certificate used to sign vtep−ctl’s own certificate, that is, the certificate specified on −c or −−certificate. If vtep−ctl’s certificate is self-signed, then −−certificate and −−peer−ca−cert should specify the same file.

This option is not useful in normal operation, because the SSL peer must already have the CA certificate for the peer to have any confidence in vtep−ctl’s identity. However, this offers a way for a new installation to bootstrap the CA certificate on its first SSL connection.

−v[spec]
−−verbose=[spec]
Sets logging levels. Without any spec, sets the log level for every module and destination to dbg. Otherwise, spec is a list of words separated by spaces or commas or colons, up to one from each category below:

• A valid module name, as displayed by the vlog/list command on ovs−appctl(8), limits the log level change to the specified module.

• syslog, console, or file, to limit the log level change to only to the system log, to the console, or to a file, respectively. (If −−detach is specified, vtep−ctl closes its standard file descriptors, so logging to the console will have no effect.)

On Windows platform, syslog is accepted as a word and is only useful along with the −−syslog−target option (the word has no effect otherwise).

• off, emer, err, warn, info, or dbg, to control the log level. Messages of the given severity or higher will be logged, and messages of lower severity will be filtered out. off filters out all messages. See ovs−appctl(8) for a definition of each log level.
Case is not significant within `spec`.

Regardless of the log levels set for `file`, logging to a file will not take place unless `--log-file` is also specified (see below).

For compatibility with older versions of OVS, `any` is accepted as a word but has no effect.

`--v`  
`--verbose`  
Sets the maximum logging verbosity level, equivalent to `--verbose=dbg`.

`--vPATTERN:destination:pattern`  
`--verbose=PATTERN:destination:pattern`  
Sets the log pattern for `destination` to `pattern`. Refer to `ovs-appctl(8)` for a description of the valid syntax for `pattern`.

`--vFACILITY:facility`  
`--verbose=FACILITY:facility`  
Sets the RFC5424 facility of the log message. `facility` can be one of `kern`, `user`, `mail`, `daemon`, `auth`, `syslog`, `lpr`, `news`, `uucp`, `clock`, `ftp`, `ntp`, `audit`, `alert`, `clock2`, `local0`, `local1`, `local2`, `local3`, `local4`, `local5`, `local6` or `local7`. If this option is not specified, `daemon` is used as the default for the local system syslog and `local0` is used while sending a message to the target provided via the `--syslog-target` option.

`--log-file[=file]`  
Enables logging to a file. If `file` is specified, then it is used as the exact name for the log file. The default log file name used if `file` is omitted is `/usr/local/var/log/openvswitch/vtep-ctl.log`.

`--syslog-target=host:port`  
Send syslog messages to UDP `port` on `host`, in addition to the system syslog. The `host` must be a numerical IP address, not a hostname.

`--syslog-method=method`  
Specify `method` how syslog messages should be sent to syslog daemon. Following forms are supported:

- `libc`, use libc `syslog()` function. Downside of using this options is that libc adds fixed prefix to every message before it is actually sent to the syslog daemon over `/dev/log` UNIX domain socket.

- `unix:file`, use UNIX domain socket directly. It is possible to specify arbitrary message format with this option. However, `rsyslogd 8.9` and older versions use hard coded parser function anyway that limits UNIX domain socket use. If you want to use arbitrary message format with older `rsyslogd` versions, then use UDP socket to localhost IP address instead.

- `udp:ip:port`, use UDP socket. With this method it is possible to use arbitrary message format also with older `rsyslogd`. When sending syslog messages over UDP socket extra precaution needs to be taken into account, for example, syslog daemon needs to be configured to listen on the specified UDP port, accidental `iptables` rules could be interfering with local syslog traffic and there are some security considerations that apply to UDP sockets, but do not apply to UNIX domain sockets.

- `null`, discards all messages logged to syslog.

The default is taken from the `OVS_SYSLOG_METHOD` environment variable; if it is unset, the default is `libc`.

`--h`  
`--help`  
Prints a brief help message to the console.

`--V`
---version
Prints version information to the console.

COMMANDS
The commands implemented by vtep-ctl are described in the sections below.

Physical Switch Commands
These commands examine and manipulate physical switches.

[---may-exist] add-ps pswitch
Creates a new physical switch named pswitch. Initially the switch will have no ports.
Without ---may-exist, attempting to create a switch that exists is an error. With ---may-exist, this command does nothing if pswitch already exists.

[---if-exists] del-ps pswitch
Deletes pswitch and all of its ports.
Without ---if-exists, attempting to delete a switch that does not exist is an error. With ---if-exists, attempting to delete a switch that does not exist has no effect.

list-ps
Lists all existing physical switches on standard output, one per line.

ps-exists pswitch
Tests whether pswitch exists. If so, vtep-ctl exits successfully with exit code 0. If not, vtep-ctl exits unsuccessfully with exit code 2.

Port Commands
These commands examine and manipulate VTEP physical ports.

list-ports pswitch
Lists all of the ports within pswitch on standard output, one per line.

[---may-exist] add-port pswitch port
Creates on pswitch a new port named port from the network device of the same name.
Without ---may-exist, attempting to create a port that exists is an error. With ---may-exist, this command does nothing if port already exists on pswitch.

[---if-exists] del-port [pswitch] port
Deletes port. If pswitch is omitted, port is removed from whatever switch contains it; if pswitch is specified, it must be the switch that contains port.
Without ---if-exists, attempting to delete a port that does not exist is an error. With ---if-exists, attempting to delete a port that does not exist has no effect.

Logical Switch Commands
These commands examine and manipulate logical switches.

[---may-exist] add-ls lswitch
Creates a new logical switch named lswitch. Initially the switch will have no locator bindings.
Without ---may-exist, attempting to create a switch that exists is an error. With ---may-exist, this command does nothing if lswitch already exists.

[---if-exists] del-ls lswitch
Deletes lswitch.
Without ---if-exists, attempting to delete a switch that does not exist is an error. With ---if-exists, attempting to delete a switch that does not exist has no effect.

list-ls
Lists all existing logical switches on standard output, one per line.

ls-exists lswitch
Tests whether lswitch exists. If so, vtep-ctl exits successfully with exit code 0. If not, vtep-ctl exits unsuccessfully with exit code 2.
**bind−ls pswitch port vlan lswitch**
Bind logical switch lswitch to the port/vlan combination on the physical switch pswitch.

**unbind−ls pswitch port vlan**
Remove the logical switch binding from the port/vlan combination on the physical switch pswitch.

**list−bindings pswitch port**
List the logical switch bindings for port on the physical switch pswitch.

**set−replication−mode lswitch replication−mode**
Set logical switch lswitch replication mode to replication−mode; the only valid values for replication mode are "service_node" and "source_node". For handling L2 broadcast, multicast and unknown unicast traffic, packets can be sent to all members of a logical switch referenced by a physical switch. There are different modes to replicate the packets. The default mode of replication is to send the traffic to a service node, which can be a hypervisor, server or appliance, and let the service node handle replication to other transport nodes (hypervisors or other VTEP physical switches). This mode is called service node replication. An alternate mode of replication, called source node replication involves the source node sending to all other transport nodes. Hypervisors are always responsible for doing their own replication for locally attached VMs in both modes. Service node mode is the default, if the replication mode is not explicitly set. Service node replication mode is considered a basic requirement because it only requires sending the packet to a single transport node.

**get−replication−mode lswitch**
Get logical switch lswitch replication mode. The only valid values for replication mode are "service_node" and "source_node". An empty reply for replication mode implies a default of "service_node".

**Logical Router Commands**
These commands examine and manipulate logical routers.

[---may−exist] add−lr lrouter
Creates a new logical router named lrouter.
Without ---may−exist, attempting to create a router that exists is an error. With ---may−exist, this command does nothing if lrouter already exists.

[---if−exists] del−lr lrouter
Deletes lrouter.
Without ---if−exists, attempting to delete a router that does not exist is an error. With ---if−exists, attempting to delete a router that does not exist has no effect.

list−lr Lists all existing logical routers on standard output, one per line.

lr−exists lrouter Tests whether lrouter exists. If so, vtep−ctl exits successfully with exit code 0. If not, vtep−ctl exits unsuccessfully with exit code 2.

**Local MAC Binding Commands**
These commands examine and manipulate local MAC bindings for the logical switch. The local maps are written by the VTEP to refer to MACs it has learned on its physical ports.

add−ucast−local lswitch mac [encap] ip
Map the unicast Ethernet address mac to the physical location ip using encapsulation encaps on lswitch. If encaps is not specified, the default is "vxlan_over_ipv4". The local mappings are used by the VTEP to refer to MACs learned on its physical ports.

del−ucast−local lswitch mac Remove the local unicast Ethernet address mac map from lswitch. The local mappings are used by the VTEP to refer to MACs learned on its physical ports.
add--mcast--local lswitch mac [encap] ip
Add physical location ip using encapsulation encap to the local mac binding table for multicast Ethernet address mac on lswitch. If encap is not specified, the default is "vxlan_over_ipv4". The local mappings are used by the VTEP to refer to MACs learned on its physical ports.

del--mcast--local lswitch mac [encap] ip
Remove physical location ip using encapsulation encap from the local mac binding table for multicast Ethernet address mac on lswitch. If encap is not specified, the default is "vxlan_over_ipv4". The local mappings are used by the VTEP to refer to MACs learned on its physical ports.

clear--local--macs lswitch
Clear the local MAC bindings for lswitch.

list--local--macs lswitch
List the local MAC bindings for lswitch, one per line.

Remote MAC Binding Commands
These commands examine and manipulate local and remote MAC bindings for the logical switch. The remote maps are written by the network virtualization controller to refer to MACs that it has learned.

add--ucast--remote lswitch mac [encap] ip
Map the unicast Ethernet address mac to the physical location ip using encapsulation encap on lswitch. If encap is not specified, the default is "vxlan_over_ipv4". The remote mappings are used by the network virtualization platform to refer to MACs that it has learned.

del--ucast--remote lswitch mac
Remove the remote unicast Ethernet address mac map from lswitch. The remote mappings are used by the network virtualization platform to refer to MACs that it has learned.

add--mcast--remote lswitch mac [encap] ip
Add physical location ip using encapsulation encap to the remote mac binding table for multicast Ethernet address mac on lswitch. If encap is not specified, the default is "vxlan_over_ipv4". The remote mappings are used by the network virtualization platform to refer to MACs that it has learned.

del--mcast--remote lswitch mac [encap] ip
Remove physical location ip using encapsulation encap from the remote mac binding table for multicast Ethernet address mac on lswitch. If encap is not specified, the default is "vxlan_over_ipv4". The remote mappings are used by the network virtualization platform to refer to MACs that it has learned.

clear--remote--macs lswitch
Clear the remote MAC bindings for lswitch.

list--remote--macs lswitch
List the remote MAC bindings for lswitch, one per line.

Manager Connectivity
These commands manipulate the managers column in the Global table and rows in the Managers table. When ovsdb--server is configured to use the managers column for OVSDB connections (as described in the startup scripts provided with Open vSwitch), this allows the administrator to use vtep--ctl to configure database connections.

get--manager
Prints the configured manager(s).

del--manager
Deletes the configured manager(s).

set--manager target...
Sets the configured manager target or targets. Each target may be an OVSDB active or passive connection method, e.g. psll:6640, as described in ovsdb(7).
**Database Commands**

These commands query and modify the contents of `ovsdb` tables. They are a slight abstraction of the `ovsdb` interface and as such they operate at a lower level than other `vtep-ctl` commands.

**Identifying Tables, Records, and Columns**

Each of these commands has a `table` parameter to identify a table within the database. Many of them also take a `record` parameter that identifies a particular record within a table. The `record` parameter may be the UUID for a record, and many tables offer additional ways to identify records. Some commands also take `column` parameters that identify a particular field within the records in a table.

The following tables are currently defined:

- **Global**  
  Top-level configuration for a hardware VTEP. This table contains exactly one record, identified by specifying . as the record name.

- **Manager**  
  Configuration for an OVSDB connection. Records may be identified by target (e.g. `tcp:1.2.3.4`).

- **Physical_Switch**  
  A physical switch that implements a VTEP. Records may be identified by physical switch name.

- **Logical_Switch**  
  A logical Ethernet switch. Records may be identified by logical switch name.

- **Logical_Binding_Stats**  
  Reports statistics for the logical switch with which a VLAN on a physical port is associated.

- **Ucast_Macs_Local**  
  Mapping of locally discovered unicast MAC addresses to tunnels.

- **Ucast_Macs_Remote**  
  Mapping of remotely programmed unicast MAC addresses to tunnels.

- **Mcast_Macs_Local**  
  Mapping of locally discovered multicast MAC addresses to tunnels.

- **Mcast_Macs_Remote**  
  Mapping of remotely programmed multicast MAC addresses to tunnels.

- **Physical_Locator_Set**  
  A set of one or more physical locators.

- **Physical_Locator**  
  Identifies an endpoint to which logical switch traffic may be encapsulated and forwarded. Records may be identified by physical locator name.

Record names must be specified in full and with correct capitalization, except that UUIDs may be abbreviated to their first 4 (or more) hex digits, as long as that is unique within the table. Names of tables and columns are not case-sensitive, and _ and - are treated interchangeably. Unique abbreviations of table and column names are acceptable, e.g. `man` or `m` is sufficient to identify the `Manager` table.

**Database Values**

Each column in the database accepts a fixed type of data. The currently defined basic types, and their representations, are:

- `integer`  
  A decimal integer in the range $-2^{**63}$ to $2^{**63}$−1, inclusive.

- `real`  
  A floating-point number.

- `Boolean`  
  True or false, written `true` or `false`, respectively.
string An arbitrary Unicode string, except that null bytes are not allowed. Quotes are optional for most strings that begin with an English letter or underscore and consist only of letters, underscores, hyphens, and periods. However, true and false and strings that match the syntax of UUIDs (see below) must be enclosed in double quotes to distinguish them from other basic types. When double quotes are used, the syntax is that of strings in JSON, e.g. backslashes may be used to escape special characters. The empty string must be represented as a pair of double quotes (""").

UUID Either a universally unique identifier in the style of RFC 4122, e.g. f81d4fae-7dec-11d0-a765-00a0c91e6bf6, or a @name defined by a get or create command within the same vtep-ctl invocation.

Multiple values in a single column may be separated by spaces or a single comma. When multiple values are present, duplicates are not allowed, and order is not important. Conversely, some database columns can have an empty set of values, represented as [], and square brackets may optionally enclose other non-empty sets or single values as well. For a column accepting a set of integers, database commands accept a range. A range is represented by two integers separated by -. A range is inclusive. A range has a maximum size of 4096 elements. If more elements are needed, they can be specified in separate ranges.

A few database columns are “maps” of key-value pairs, where the key and the value are each some fixed database type. These are specified in the form key=value, where key and value follow the syntax for the column’s key type and value type, respectively. When multiple pairs are present (separated by spaces or a comma), duplicate keys are not allowed, and again the order is not important. Duplicate values are allowed. An empty map is represented as {}.

Database Command Syntax

[--if-exists] [--columns=column[,column]...] list table [record]...

Lists the data in each specified record. If no records are specified, lists all the records in table.

If --columns is specified, only the requested columns are listed, in the specified order. Otherwise, all columns are listed, in alphabetical order by column name.

Without --if-exists, it is an error if any specified record does not exist. With --if-exists, the command ignores any record that does not exist, without producing any output.

[--columns=column[,column]]... find table [column][key]=value...

Lists the data in each record in table whose column equals value or, if key is specified, whose column contains a key with the specified value. The following operators may be used where = is written in the syntax summary:

= != < > <= >=

Selects records in which column[key] equals, does not equal, is less than, is greater than, is less than or equal to, or is greater than or equal to value, respectively.

Consider column[key] and value as sets of elements. Identical sets are considered equal. Otherwise, if the sets have different numbers of elements, then the set with more elements is considered to be larger. Otherwise, consider a element from each set pairwise, in increasing order within each set. The first pair that differs determines the result. (For a column that contains key-value pairs, first all the keys are compared, and values are considered only if the two sets contain identical keys.)

{=} {!=}

Test for set equality or inequality, respectively.

{<=} Selects records in which column[key] is a subset of value. For example, flood-vlans{<=}1,2 selects records in which the flood-vlans column is the empty set or contains 1 or 2 or both.

{<} Selects records in which column[key] is a proper subset of value. For example, flood-vlans{<}1,2 selects records in which the flood-vlans column is the empty set or contains
The following operators are available only in Open vSwitch 2.16 and later:

{in} Selects records in which every element in column[;key] is also in value. (This is the same as {<=}.)

{not-in} Selects records in which every element in column[;key] is not in value.

For arithmetic operators (≠ != < > <= >=), when key is specified but a particular record’s column does not contain key, the record is always omitted from the results. Thus, the condition other-config:mtu!=1500 matches records that have a mtu key whose value is not 1500, but not those that lack an mtu key.

For the set operators, when key is specified but a particular record’s column does not contain key, the comparison is done against an empty set. Thus, the condition other-config:mtu{{=}1500 matches records that have a mtu key whose value is not 1500 and those that lack an mtu key.

Don’t forget to escape < or > from interpretation by the shell.

If --columns is specified, only the requested columns are listed, in the specified order. Otherwise all columns are listed, in alphabetical order by column name.

The UUIDs shown for rows created in the same vtep-ctl invocation will be wrong.
[--if-exists] remove table record column value...
[--if-exists] remove table record column key...
[--if-exists] remove table record column key=value...

Removes the specified values or key-value pairs from column in record in table. The first form applies to columns that are not maps: each specified value is removed from the column. The second and third forms apply to map columns: if only a key is specified, then any key-value pair with the given key is removed, regardless of its value; if a value is given then a pair is removed only if both key and value match.

It is not an error if the column does not contain the specified key or value or pair.

Without --if-exists, it is an error if record does not exist. With --if-exists, this command does nothing if record does not exist.

[--if-exists] clear table record column...

Sets each column in record in table to the empty set or empty map, as appropriate. This command applies only to columns that are allowed to be empty.

Without --if-exists, it is an error if record does not exist. With --if-exists, this command does nothing if record does not exist.

[--id=@name] create table column[>:key]=value...

Creates a new record in table and sets the initial values of each column. Columns not explicitly set will receive their default values. Outputs the UUID of the new row.

If @name is specified, then the UUID for the new row may be referred to by that name elsewhere in the same vtep-ctl invocation in contexts where a UUID is expected. Such references may precede or follow the create command.

Caution (ovs-vsctl as example)

Records in the Open vSwitch database are significant only when they can be reached directly or indirectly from the Open_vSwitch table. Except for records in the QoS or Queue tables, records that are not reachable from the Open_vSwitch table are automatically deleted from the database. This deletion happens immediately, without waiting for additional ovs-vsctl commands or other database activity. Thus, a create command must generally be accompanied by additional commands within the same ovs-vsctl invocation to add a chain of references to the newly created record from the top-level Open_vSwitch record. The EXAMPLES section gives some examples that show how to do this.

[--if-exists] destroy table record...

Deletes each specified record from table. Unless --if-exists is specified, each records must exist.

--all destroy table

Deletes all records from the table.

Caution (ovs-vsctl as example)

The destroy command is only useful for records in the QoS or Queue tables. Records in other tables are automatically deleted from the database when they become unreachable from the Open_vSwitch table. This means that deleting the last reference to a record is sufficient for deleting the record itself. For records in these tables, destroy is silently ignored. See the EXAMPLES section below for more information.

wait-until table record [column[>:key]=value]...

 Waits until table contains a record named record whose column equals value or, if key is specified, whose column contains a key with the specified value. This command supports the same operators and semantics described for the find command above.

If no column[>:key]=value arguments are given, this command waits only until record exists. If more than one such argument is given, the command waits until all of them are satisfied.
Caution (ovs-vsctl as example)

Usually `wait-until` should be placed at the beginning of a set of `ovs-vsctl` commands. For example, `wait-until bridge br0 -- get bridge br0 datapath_id` waits until a bridge named `br0` is created, then prints its `datapath_id` column, whereas `get bridge br0 datapath_id -- wait-until bridge br0` will abort if no bridge named `br0` exists when `ovs-vsctl` initially connects to the database.

Consider specifying `--timeout=0` along with `--wait-until`, to prevent `vtep-ctl` from terminating after waiting only at most 5 seconds.

```
comment [arg]...
```

This command has no effect on behavior, but any database log record created by the command will include the command and its arguments.

### EXIT STATUS

0  Successful program execution.
1  Usage, syntax, or configuration file error.
2  The `switch` argument to `ps-exists` specified the name of a physical switch that does not exist.

### SEE ALSO

- `ovsdb-server(1)`, `vtep(5)`.