NAME

ovn-ctl - Open Virtual Network northbound daemon lifecycle utility

SYNOPSIS

ovn-ctl [options] command [-- extra_args]

DESCRIPTION

This program is intended to be invoked internally by Open Virtual Network startup scripts. System administrators should not normally invoke it directly.

COMMANDS

```
start_northd
start_controller
start_controller_vtep
start_ic
stop_northd
stop_controller
stop_controller_vtep
stop_ic
restart_northd
restart_controller
restart_controller_vtep
restart_ic
promote_ovnnb
promote_ovnsb
demote\_ovnnb
demote\_ovnsb
status_ovnnb
status_ovnsb
start\_ovsdb
start\_nb\_ovsdb
start_sb_ovsdb
stop_ovsdb
stop_nb_ovsdb
stop_sb_ovsdb
restart_ovsdb
run_nb_ovsdb
run\_sb\_ovsdb
promote_ic_nb
promote_ic_sb
demote\_ic\_nb
demote\_ic\_sb
status_ic_nb
status_ic_sb
start_ic_ovsdb
start_ic_nb_ovsdb
start_ic_sb_ovsdb
stop\_ic\_ovsdb
stop_ic_nb_ovsdb
stop_ic_sb_ovsdb
restart_ic_ovsdb
run_ic_nb_ovsdb
```

OPTIONS

--ovn-northd-priority=NICE

run_ic_sb_ovsdb

- --ovn-northd-wrapper=WRAPPER
- --ovn-controller-priority=NICE
- --ovn-controller-wrapper=WRAPPER
- --ovn-ic-priority=NICE
- --ovn-ic-wrapper=WRAPPER
- --ovsdb-nb-wrapper=WRAPPER
- --ovsdb-sb-wrapper=WRAPPER
- --ovn-user=USER:GROUP
- --ovs-user=USER:GROUP
- -h | --help

FILE LOCATION OPTIONS

- --db-sock=SOCKET
- --db-nb-file=FILE
- --db-sb-file=FILE
- --db-nb-schema=FILE
- --db-sb-schema=FILE
- --db-sb-create-insecure-remote=yes|no
- --db-nb-create-insecure-remote=yes|no
- --db-ic-nb-file=FILE
- --db-ic-sb-file=FILE
- --db-ic-nb-schema=FILE
- --db-ic-sb-schema=FILE
- **--db-ic-sb-create-insecure-remote**=yes|no
- --db-ic-nb-create-insecure-remote=yes|no
- --ovn-controller-ssl-key=KEY
- --ovn-controller-ssl-cert=CERT
- --ovn-controller-ssl-ca-cert=CERT
- --ovn-controller-ssl-bootstrap-ca-cert=CERT

ADDRESS AND PORT OPTIONS

- --db-nb-sync-from-addr=IP ADDRESS
- --db-nb-sync-from-port=PORT NUMBER
- --db-nb-sync-from-proto=PROTO
- --db-sb-sync-from-addr=IP ADDRESS
- --db-sb-sync-from-port=PORT NUMBER
- --db-sb-sync-from-proto=PROTO
- --db-ic-nb-sync-from-addr=IP ADDRESS
- $\textbf{---db--ic--nb--sync--from--port} = PORT\ NUMBER$
- --db-ic-nb-sync-from-proto=PROTO
- --db-ic-sb-sync-from-addr=IP ADDRESS
- --db-ic-sb-sync-from-port=PORT NUMBER

- --db-ic-sb-sync-from-proto=PROTO
- --ovn-northd-nb-db=PROTO:IP ADDRESS: PORT..
- --ovn-northd-sb-db=PROTO:IP ADDRESS: PORT..
- --ovn-ic-nb-db=PROTO:IP ADDRESS: PORT..
- --ovn-ic-sb-db=PROTO:IP ADDRESS: PORT..

CLUSTERING OPTIONS

- --db-nb-cluster-local-addr=IP ADDRESS
- --db-nb-cluster-local-port=PORT NUMBER
- --db-nb-cluster-local-proto=PROTO (tcp/ssl)
- --db-nb-cluster-remote-addr=IP ADDRESS
- $--db-nb-cluster-remote-port= PORT\ NUMBER$
- --db-nb-cluster-remote-proto=PROTO (tcp/ssl)
- --db-sb-cluster-local-addr=IP ADDRESS
- --db-sb-cluster-local-port=PORT NUMBER
- --db-sb-cluster-local-proto=PROTO (tcp/ssl)
- --db-sb-cluster-remote-addr=IP ADDRESS
- --db-sb-cluster-remote-port=PORT NUMBER
- --db-sb-cluster-remote-proto=PROTO (tcp/ssl)
- --db-ic-nb-cluster-local-addr=IP ADDRESS
- --db-ic-nb-cluster-local-port=PORT NUMBER
- --db-ic-nb-cluster-local-proto=PROTO (tcp/ssl)
- --db-ic-nb-cluster-remote-addr=IP ADDRESS
- --db-ic-nb-cluster-remote-port=PORT NUMBER
- --db-ic-nb-cluster-remote-proto=PROTO (tcp/ssl)
- --db-ic-sb-cluster-local-addr=IP ADDRESS
- --db-ic-sb-cluster-local-port=PORT NUMBER
- --db-ic-sb-cluster-local-proto=PROTO (tcp/ssl)
- --db-ic-sb-cluster-remote-addr=IP ADDRESS
- --db-ic-sb-cluster-remote-port=PORT NUMBER
- --db-ic-sb-cluster-remote-proto=PROTO (tcp/ssl)

PROBE INTERVAL OPTIONS

- --db-nb-probe-interval-to-active=Time in milliseconds
- --db-sb-probe-interval-to-active=Time in milliseconds

EXTRA OPTIONS

Any options after '-' will be passed on to the binary run by *command* with the exception of start_northd, which can have options specified in ovn-northd-db-params.conf. Any *extra_args* passed to start_northd will be passed to the ovsdb-servers if **--ovn-manage-ovsdb=yes**

CONFIGURATION FILES

Following are the optional configuration files. If present, it should be located in the etc dir

ovnnb-active.conf

If present, this file should hold the url to connect to the active Northbound DB server

tcp:x.x.x.x:6641

ovnsb-active.conf

If present, this file should hold the url to connect to the active Southbound DB server

tcp:x.x.x.x:6642

ovn-northd-db-params.conf

If present, start_northd will not start the DB server even if **—-ovn—manage—ovsdb=yes**. This file should hold the database url parameters to be passed to ovn-northd.

--ovnnb-db=tcp:x.x.x.x:6641 --ovnsb-db=tcp:x.x.x.x:6642

ic-nb-active.conf

If present, this file should hold the url to connect to the active Interconnection Northbound DB server

tcp:x.x.x.x:6645

ic-sb-active.conf

If present, this file should hold the url to connect to the active Interconnection Southbound DB server

tcp:x.x.x.x:6646

ovn-ic-db-params.conf

If present, this file should hold the database url parameters to be passed to ovn-ic.

--ic-nb-db=tcp:x.x.x.x:6645 --ic-sb-db=tcp:x.x.x.x:6646

RUNNING OVN DB SERVERS WITHOUT DETACHING

ovn-ctl run nb ovsdb

This command runs the OVN nb ovsdb-server without passing the **detach** option, making it to block until ovsdb-server exits. This command will be useful for starting the OVN nb ovsdb-server in a container.

ovn-ctl run_sb_ovsdb

This command runs the OVN sb ovsdb-server without passing the **detach** option, making it to block until ovsdb-server exits. This command will be useful for starting the OVN sb ovsdb-server in a container.

ovn-ctl run_ic_nb_ovsdb

This command runs the OVN IC-NB ovsdb-server without passing the **detach** option, making it to block until ovsdb-server exits. This command will be useful for starting the OVN IC-NB ovsdb-server in a container.

ovn-ctl run_ic_sb_ovsdb

This command runs the OVN IC-SB ovsdb-server without passing the **detach** option, making it to block until ovsdb-server exits. This command will be useful for starting the OVN IC-SB ovsdb-server in a container.

EXAMPLE USAGE

Run ovn-controller on a host already running OVS

ovn-ctl start_controller

Run ovn-northd on a host already running OVS

ovn-ctl start_northd

All-in-one OVS+OVN for testing

ovs-ctl start --system-id="random"

ovn-ctl start_northd

ovn-ctl start_controller

Promote and demote ovsdb servers

ovn-ctl promote_ovnnb

ovn-ctl promote_ovnsb

ovn-ctl --db-nb-sync-from-addr=x.x.x.x --db-nb-sync-from-port=6641 --db-nb-probe-interval-to-active=60000 demote_ovnnb

 $\# \ ovn-ctl \ --db-sb-sync-from-addr=x.x.x.x \ --db-sb-sync-from-port=6642 \ --db-sb-probe-interval-to-active=60000 \ demote_ovnsb$

Creating a clustered db on 3 nodes with IPs x.x.x.x, y.y.y.y and z.z.z.z

Starting OVN ovsdb servers and ovn-northd on the node with IP x.x.x.x.

Starting OVN ovsdb-servers and ovn-northd on the node with IP y.y.y.y and joining the cluster started at x.x.x.x

Starting OVN ovsdb-servers and ovn-northd on the node with IP z.z.z.z and joining the cluster started at x.x.x.x

Passing ssl keys when starting OVN dbs will supersede the default ssl values in db

Starting standalone ovn db server passing SSL certificates

```
# ovn-ctl --ovn-nb-db-ssl-key=/etc/ovn/ovnnb-privkey.pem --ovn-nb-db-ssl-cert=/etc/ovn/ovnnb-cert.pem --ovn-nb-db-ssl-ca-cert=/etc/ovn/cacert.pem --ovn-sb-db-ssl-key=/etc/ovn/ovnsb-privkey.pem --ovn-sb-db-ssl-cert=/etc/ovn/ovnsb-cert.pem --ovn-sb-db-ssl-ca-cert=/etc/ovn/cacert.pem start_northd
```

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