XADMIN(8)

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

SYNOPSIS

xadmin [*COMMAND*] [*OPTIONS*]

Chapter 2

DESCRIPTION

xadmin is command line interface to Enduro/X. It is administration utility. Which is servers as communication interface between Enduro/X ATMI local daemon and administrator. *xadmin* can receive commands as parameter to *xadmin*. It can read command from pipe (stdin). And it can work in interactive mode. In this case *xadmin* is started with no parameters.

xadmin is responsible to start idle instance of *ndrxd*. After that *xadmin* sends commands to *ndrxd* and prints the response from daemon to the stdout in human readable form. Commands are sent and response from *ndrxd* are received via POSIX Queues.

xadmin can lookup the configuration (currently used for user specific generators). The configuration search order is following:

1. INI file by *NDRX_XADMIN_CONFIG* environment variable. This can also be a directory. The common-config routines will load all configs (.ini .cfg, .conf, .config) files.
2. INI file in *$HOME/.xadmin.config*;
3. INI file in */etc/xadmin.config*;

Chapter 3

COMMANDS

quit
Quit from command line utility

q
Alias for quit

echo
Echo text back to terminal

idle
Enter daemon process in idle state (if not started)

help
Print help (this output)

stat
Prints general status information

ldcf
Load configuration

start [-y] [-s <server>] [-i <srvid>]
Start application domain. If config not loaded, it loads configuration automatically. *-y* means do not ask for confirmation. *-s* means ATMI servers binary name to be started, instead of whole application domain. *-i* means start specific server instance.

psc
Print services

stop [-y] [-c]|[-s <server>] [-i <srvid>]
Stop application domain. *-y* means do not ask for confirmation. *-s* means ATMI servers binary name to be stopped, instead of whole application domain. *-i* means stop specific server instance. *-c* flag will shutdown *ndrxd* daemon, otherwise daemon keeps running.

sreload [-y] [-s <server>] [-i <srvid>]
Reload application domain - restart server instance by instance. Configuration be loaded prior. *-y* means do not ask for confirmation. *-s* means ATMI servers binary name to be reloaded, instead of whole application domain. *-i* means restart specific server instance.

sr
Alias for *sreload*

psc , down [-y]
Force appserver shuttdown & resurce cleanup. RUN ONLY IF YOU KNOW WHAT YOU ARE DOING! Basically this kills all ATMI servers and Enduro/X daemon. This does NOT remove client processes.

cat
Attached console to ndrxd user session in progress

reload
Load new configuration

testcfg
Test new configuration

unadv -i server_id -s service_name
Un-advertise service. *-i* is server id, *-s* is service name to be unadvertised.

readv -i server_id -s service_name
Re-advertise service. Might be usable if service Q was unlinked. *-i* is server id, *-s* is service name to be re-advertised.

restart [-y] [-s <server>] [-i <srvid>]
Restart app or service (invokes start & stop with same args!). *-y* makes to not to ask for confirmation. *-s* is server/binary name. *-i* is server ID.

r
Alias for *restart*

-v
Print version info

ver
Alias for *-v*

ppm
Print process model

psvc
Shared mem, print services

psrv
Shared mem, print servers

cabort [-y]
Abort shutdown or startup operation in progress. *-y* do not ask for confirmation.

sreload [-y] [-s <server>] [-i <srvid>]
Restart servers instance by instance

pq
Print Queue stats from ndrxd.

pqa [-a]
Print all queues including client and admin Q. *-a* includes other prefix queues.

pt
Print global transactions in progress.

printtrans
Alias for *pt*.

abort -t <transaction_manager_reference> -x <XID> [-g <resource_manager_id>] [-y]
Abort transaction. *-g* does abort single resource manager's transaction. *-y* is for auto confirmation.

aborttrans
Alias for *abort*.

commit -t <transaction_manager_reference> -x <XID> [-y]
Commit transaction. *-y* is for auto confirmation.

committrans
Alias for *commit*.

pe
Print Environment variables of *ndrxd* process.

printenv
Alias for *pe*.

set ENV_NAME=ENV VALUE
Set environment value. The value of env variable is parsed as command line arguments. Prior sending to *ndrxd* they are contact with spaces in between.

unset ENV_NAME
Unset environment variable

pc
Print client processes. This sends command to Client Process Monitor server (*cpmsrv*).

bc -t <process tag> [-s <sub section>]
Boot client process. This sends command to Client Process Monitor server (*cpmsrv*). Processes are registered in *ndrxconfig.xml* <*clients*> section.

sc -t <process tag> [-s <sub section>]
Stop client process. This sends command to Client Process Monitor server (*cpmsrv*).

mqlc
List queue configuration. This broadcasts the requests of config listing to all *tmqueue* servers. If flags column contains *D* flag, then it means that queue was dynamically defined and QDEF string contains values from default queue.

mqlq
List actual queues allocated on system. Similarly as for *mqlc* this requests the information from all *tmqueue* servers. *#LOCK* column contains the number of active non committed messages in Q. *#SUCC* and *#FAIL* column contains number of processed messages for automatic queues (messages are sent to destination services automatically by *tmqueue* server.

mqrc
This command requests all queue servers to reload the configuration file.

mqlm -s <QSpace> -q <QName>
List messages in queue. *-s* is queue space name (set by *tmqueue -m* paramemter). The output lists the message ID in modified base64 version (/ changed to _).

mqdm -n <Cluster node id> -i <Server ID> -m <Message ID>
Dump/peek message to stdout. The values from *-n* (node id), *-i* (srvid), *-m*(message id) can be taken from *mqlm* command. This command prints to stdout, the *TQCTL* structure in form of UBF buffer and the message it self. If message is UBF, then UBF dump is made, otherwise hexdump of message is printed.

mqch -n <Cluster node id> -i <Server ID> -q <Q def (conf format)>
Change/add queue defnition to particular *tmqueue* server. The format of the queue definition is the same as used *q.conf(5)* (see the man page). You may miss out some of the bits (except the queue name). Those other bits will be take from default q.

mqrm -n <Cluster node id> -i <Server ID> -m <Message ID>
Remove message from queue. You have to identify exact queue space server here by Enduro/X cluster id and server id.

mqmv -n <Source cluster node id> -i <Source server ID> -m <Source Message ID> -s <Dest qspace> -q <Dest qname>
Move the message from specific qspace server to destination qspace and qname. The bits from *TPQCTL* which are returned by *tpdequeue()* call are preserved in new *tpenqueue()* call. Note that for this call *xadmin* must be in invalid XA environment, so that distributed transaction can be performed.

killall <name1> [<name2> ... <nameN>]
Kill all processes given by *ps -ef*. The command does match the name in the line. If substring is found, then process is killed.

qrm <qname1> [<qname2> … <qnameN>]
Remove specific Posix queue.

qrmall <substr1> [<substr2> … <substrN>]
Remove queue matching the substring.

provision [-d] [-v<param1>=<value1>] … [-v<paramN>=<valueN>]
Prepare initial Enduro/X instance environment, create folder structure, generate configuration files with ability to register all available services.

gen [-d] [-v<param1>=<value1>] … [-v<paramN>=<valueN>]
Generate application sources. See the xadmin's help for more details. Currently it is possible to generate C and Go sources and the UBF buffer headers for both languages. By running the command, wizards will be offered asking for different details. Which later can be reconfigured by **-d** - allowing to default the wizard, while **-v** allows to set wizard values from command line.

Chapter 4

CONFIGURATION

The following paramters from section **[@xadmin]** or **[@xadmin/<$NDRX_CCTAG>]** are used (if config file is present):

gen scripts=*PATH_TO_GENERATOR_SCRIPTS*

This parameter configures the path where *xadmin* should look for .pscript files. The file names must be in following format: gen_<lang>_<type>.pscript. Basically <lang> and <type> will be offered as targets under $xadmin gen command. The $xadmin help will print these scripts. For script reference look in Enduro/X source code, **xadmin/scripts** folder. It is assumed that these scripts will inherit *WizardBase* class compiled into Enduro/X. This class is driving the wizard. Also note that each parameter which is asked to user enter into wizard, can be overridden from command line with **-v<param1>=<value1>**. The generator can be defaulted by *-d* argument.

Chapter 5

SAMPLE CONFIGURATION

For system wide settings the following file is created: **/etc/xadmin.config**:

```
[@xadmin]
gen scripts=/development/templates
```

Chapter 6

EXIT STATUS

0
Success

1
Failure

Chapter 7

BUGS

Report bugs to madars.vitolins@gmail.com

Chapter 8

SEE ALSO

ndrxd(8), **q.conf(5)**, **tmqueue(8)**

Chapter 9

AUTHOR

Enduro/X is created by Madars Vitolins.

Chapter 10

COPYING