

Men & Mice

Command Line Interface

for Windows, Solaris, Linux and Mac OS X

Overview

The Men & Mice Command Line Interface (CLI) contains various commands to help you manage your network address space from the command line.

You can use the CLI interactively, executing one command at a time, or you can run script files to execute multiple commands in one batch. Script files can be supplied as arguments when starting the CLI and they can be run from within the CLI using the `execute` command.

This document contains a list of the commands supported by the CLI and an example script to help you get started.

Command List

Command	Description.
#	Remark
add	Adds a record to a zone.
addDevice	Adds a device to the enclosing IP range.
addDHCPServer	Adds a DHCP server to the list of known DHCP servers.
addIPRange	Adds an IP range.
addScope	Adds a scope to a DHCP server.
addServer	Adds a name server to the list of known name servers.
addSlaveZone	Adds a slave zone to a server.
addZone	Adds a zone to a list of servers.
backup	Creates a backup of the Men & Mice Central database.
close	Closes a zone without saving changes.
closeAll	Closes all zones without saving changes.
defaultTTL	Gets or sets the default TTL for a zone.
delete	Deletes a record in a zone.
deleteZone	Deletes a zone.
delRec	Deletes a record in a zone.
DHCPServer	Perform various actions on DHCP servers.
DHCPServers	Lists all available DHCP servers.
disable	Disables a record in a zone.
echo	Echoes text to current output.
edit	Changes a record in a zone.
enable	Enables a record in a zone.
execute	Executes a script file.
export	Exports a zone to an external file.
findRec	Finds a record in a zone.
help	Prints out help information.
history	Queries the history log.
import	Imports a zone from an external file.
ipRanges	Lists all available IP ranges.
isConnected	Returns true if we are connected to Men & Mice Central.
listHosts	Lists all hosts in an IP range.

Command	Description.
login	Logs on to Men & Mice Central.
logMessages	Shows the system log messages.
modifyDevice	Modifies a device.
modifyIPRange	Modifies an IP range.
modifyZoneOptions	Modifies options for a zone.
open	Opens a zone.
print	Prints out one or more record from a zone.
prompt	Changes the prompting mode.
quit	Quits the program.
refresh	Reloads a zone from a server.
reloadZones	Reloads the list of zones from a server.
rem	Remark.
removeDevice	Removes a device.
removeDHCPServer	Removes a DHCP server from the list of known DHCP servers.
removeIPRange	Removes an IP range.
removeScope	Removes a scope from a DHCP server.
removeServer	Removes a server from the list of known servers.
revert	Reverts a DNS event.
save	Saves a zone.
sendMessage	Sends a message to all Men & Mice Consoles
scope	Perform various actions on DHCP scopes.
scopes	Lists DHCP scopes.
serverInfo	Lists information about a server.
servers	Lists all available servers.
sleep	Sleeps for specified number of seconds.
verify	Syntax checks a zone.
version	Returns the version number of the program.
who	Returns a list of users that are logged in.
zonehistory	Queries the history log (same as the 'history' command).
zoneInfo	Lists information about a zone.
zoneModified	Returns indication of whether a zone has been modified.
zoneOptions	Returns options for a zone.
zones	Lists all available zones.

Command Descriptions

Below you will find a description of every command supported by the CLI. Note that in many commands you can use a hyphen (-) instead of `<zonename>` to specify the last zone used. For example, `close -` will close the last zone you worked with. If more than one zone with the same name is available, you might need to refer to it directly by specifying the server name and the view in which it is located. The format is `<server name>:<view name>:<zone name>`.

When printing out a zone called `azone.com` on server `mainserv`, you would use the command:

```
print mainserv::azone.com.
```

If this is the only known zone named azone.com, you can simply enter:

```
print azone.com.
```

add <zonename> <recno> <record>

Adds a record to a zone. Providing **<recno>** as -1 adds the record at the end of the zone.

addDevice <address> n=<name> [<CFx>=<value>]*

Adds a device to the enclosing IP range. The IP Address **<address>** is locked for use in DNS. You can set a custom property by the name of **<CFx>** to the value **<value>**. More than one custom property value can be defined in this manner.

**addDHCPserver <server> [<proxy>] type=(MS|ISC|IOS) [user=<value>]
[password=<value>] [<CFx>=<value>]***

Adds a DHCP server to the list of known servers. The user and password parameters are only used for Cisco IOS servers. In case of an MS or a Cisco server, you must specify the location of the dhcpremote proxy (use 127.0.0.1 if it is running on the same machine as Central). You can set a custom property by the name of **<CFx>** to the value **<value>**. More than one custom property value can be defined in this manner.

**addIPRange <IP range> name=<name> [subnet=t/f] [locked=t/f]
[autoassign=t/f] [sc=<save comment>] [<CFx>=<value>]***

Adds an IP range. The range address **<range address>** can be in one of the following formats:

```
1.2.3.0/24  
1.2.3/24  
1.2.3.1-1.2.3.2  
1.2.3.0 mask 255.255.255.0
```

You can set a custom property by the name of **<CFx>** to the value **<value>**. More than one custom property value can be defined in this manner.

Example: addIPRange Internal 10.10.10.0/24 -subnet comment=Internal range

**addScope <subnet> <server> <title> [c=<comment>] [sc=<save comment>]
[<CFx>=<value>]***

Adds a scope to a DHCP server. You can set a custom property by the name of **<CFx>** to the value **<value>**. More than one custom property value can be defined in this manner.

addServer <server> [<address>] [<CFx>=<value>]*

Adds a name server to the list of known servers. You can set a custom property by the name of **<CFx>** to the value **<value>**. More than one custom property value can be defined in this manner.

addSlaveZone <zonename> <server> <master address>+

Adds a slave zone to a server. There must be at least one master IP address.

addZone [-DS] <zonename> <server> [* | <slave>+] [<CFx>=<value>]*

Adds a zone to a list of servers. The -DS argument specifies that the zone created should be an Active Directory zone. Slave servers are optional more than one can be specified. An asterisk (*) can be used instead of explicitly specifying slave servers. If the asterisk is used, a slave zone will be created on all servers besides the master server. You can set a custom property by the name of **<CFx>** to the value **<value>**. More than one custom property value can be defined in this manner.

backup [-f] [<path>]

Creates a backup of the Men & Mice Central database. If no pathname is specified, the backup file will be created in the Men & Mice Central data directory. If a backup file already exists and the -f argument is not provided the command will fail with an error.

close <zonename>

Closes a zone without saving changes.

closeAll

Closes all zones without saving changes.

defaultTTL <zonename> [<value>]

Gets or sets the default TTL for a zone. If no value is provided the command returns the current TTL value. *Note:* This command will only work for static zones on BIND servers.

delete <zonename> <recno>

Deletes a record in a zone.

deleteZone <zonename> [<server>+]

Deletes a zone. You can specify more than one server from which to remove the zone. If no servers are provided the zone will be removed from all servers.

delRec <zonename> <recname> <rectype> <recdata>

Deletes all records that match <recname>, <rectype> and <recdata> from the zone <zonename>. Instead of <recdata> you can specify a wildcard * that will match all data values.

DHCPServer <ServerAddress> <command>

Perform various actions on DHCP servers. The following commands are supported:

- show optionvalue [all]

- Show DHCP server options

- set optionvalue [sc=<savecomment>] [<field>=<value>,<value2>]*]

- Set DHCP server option

- delete optionvalue <OptCode>

- Delete DHCP server option

- show properties [all]

- Show DHCP server properties

- set property [sc=<savecomment>] [<field1>=<value1>] [<field2>=<value2>]*]

- set DHCP server properties.

DHCPServers

Lists all available DHCP servers.

disable <zonename> <recno>

Disables a record in a zone.

echo <text>

Echoes <text> to current output.

edit <zonename> <recno> <record>

Changes the contents of record <recno>. The new record must be of the same type as the old one.

enable <zonename> <recno>

Enables a record in a zone.

execute <filename>

Executes a script file.

export [-aging] <zonename> <filename>

Exports a zone to an external file. -aging argument specifies that if this is a Windows zone that has scavenging active the zone file will contain the aging values for each record

findRec <zonename> <recname> <rectype> <recdata>

Finds all records that match <recname>, <rectype> and <recdata> from the zone <zonename>. Instead of <recdata> you can specify a wildcard * that will match all data values.

help [<command>]

Prints out help information. If a command name is provided as an argument, detailed information about that command will be displayed.

history [zone=<zonename>] [user=<username>] [fmt=(ymd|dmy|mdy)]

[from=<fromdate>] [to=<todate>] [data=<text>] [limit=n]

Queries the history log. You can filter the results by zone name, user name, data and a date range.

You can also use the limit parameter to specify the maximum number of entries to return (the default limit is 1000 entries).

import [-DS] [-aging] <zonename> <server> [* | <slave>+] <filename>

Imports a zone from an external file. The -DS argument specifies that the zone created should be an Active Directory zone. The -aging argument specifies that if this zone is created on a Microsoft Windows server and <filename> is a zone file that contains aging values for records, those values will be honored when the zone is created.

ipRanges [-d] [-e] <filter>*

Lists all available IP ranges. If the -d argument is specified, detailed information is displayed. If the -e argument is specified all ranges are displayed using the <from>-<to> format. The filters can be one or more specifying names of a label and values of a custom property. The format of the filter is: [<label>:<value>]. Example: [Responsible Person:Joe]

isConnected

Returns true if we are connected to a Men & Mice Central server.

listHosts [-f] <IP range>

Lists all host in an IP range. If the range contains more than 4096 IP addresses and -f is not provided the command will warn the user and ask whether it should continue. The IP range can be in one of the following formats:

1.2.3.0/24
1.2.3/24
1.2.3.1-1.2.3.2
1.2.3.0 mask 255.255.255.0

login <server> <username> [<password>]

Logs on to the Men & Mice Central server. If <password> is omitted, you will be prompted for the password.

logMessages [data=<text>] [from=<fromdate>] [to=<todate>]
[fmt= (ymd | dmy | mdy)]

Shows the system log messages.

modifyDevice <address> [n=<name>] [<CFx>=<value>]*

Modifies a device. You can set a custom property by the name of <CFx> to the value <value>. More than one custom property value can be defined in this manner.

modifyIPRange <IP range> [subnet=t/f] [locked=t/f] [autoassign=t/f]
[sc=<save comment>] [<CFx>=<value>]*

Modifies an IP range. You can set a custom property by the name of <CFx> to the value <value>. More than one custom property value can be defined in this manner. The range address <range address> can be in one of the following formats:

1.2.3.0/24
1.2.3/24
1.2.3.1-1.2.3.2
1.2.3.0 mask 255.255.255.0

Example: modifyIPRange 10.10.10.0/24 locked=t

modifyZoneOptions <zonename> [allow-xfer=all|none|ns|<servers>]
[notify=all|none|<servers>]

Modifies options for a master zone on a Windows DNS Server. The <servers> argument is a comma separated list of IP addresses. *Note:* This command is not supported on the Windows 2000 DNS Server.

open <zonename>

Opens and reads a zone from server.

print [-l] <zonename> [<range>]

Prints out a zone. <range> is optional and can be on the form <num>[-<num>]. If the -l argument is specified line number are printed along with each record.

prompt [on/off]

Changes the prompting mode. With prompting on, the user is questioned about all drastic changes he is about to make. With prompting off, the user is never prompted. If no argument is given, the program prints out whether prompting is on or off.

quit

Quits the program.

refresh [<zonename>]

Reloads a zone from a server. If no zone is specified then the list of known zones and servers is refresh.

reloadZones [<server>]

Reloads the list of zones from a server. If no server is specified then the list of zones is reloaded from all servers. This command differs from refresh in that it forces all server configurations to be re-read.

rem

A remark. The rest of the line is ignored. The # character can also be used to indicate a remark.

removeDevice <address>

Removes a device.

removeDHCPserver <server> [sc=<save comment>]

Removes a DHCP server from the list of known servers.

removeIPRange <IP range> [sc=<save comment>]

Removes an IP range. The IP range can be in one of the following formats:

1.2.3.0/24
1.2.3/24
1.2.3.1-1.2.3.2
1.2.3.0 mask 255.255.255.0

removeScope <ScopeAddress> [server=<ServerAddress>] [sc=<savecomment>]

Removes a scope from a DHCP server.

removeServer <servername>

Removes a server from the list of known servers.

revert <EventItem ID>+

Reverts a DNS event. You can specify more than one ID of events to be reverted.

save <zonename> [range=<ip range>] [sc=<comment>]

Saves changes made to a zone. <ip range> is the IP address range to use for auto assignment of IP addresses for A records.

The IP range can be in one of the following formats:

1.2.3.0/24
1.2.3/24
1.2.3.1-1.2.3.2

sendMessage <message>

Sends a message to all Men & Mice Consoles. You must have administrator privileges to be able to send a message.

scope <ScopeAddress> <command>

Perform various actions on DHCP scopes. The following commands are supported:

enable [server=<ServerAddress>
 Enable a scope on a DHCP server.

disable [server=<ServerAddress>
 Disable a scope on a DHCP server.

show reservedip
 Displays all reservations in a scope.

show excluderange
 Displays all excluded ranges in a DHCP scope.

show iprange
 Displays all address pools in a DHCP scope.

show clients
 Displays all clients in a DHCP scope.

show properties
 Displays properties and custom properties of a DHCP scope.

<ServerAddress> add excluderange <StartIP> <EndIP> [sc=<savecomment>]
 Adds an excluded range to a DHCP scope.

<ServerAddress> delete excluderange <StartIP> <EndIP> [sc=<savecomment>]
 Deletes an exclude range from a DHCP scope.

<ServerAddress> add iprange <StartIP> <EndIP> [sc=<savecomment>]
 Adds an address pool to a DHCP scope.

<ServerAddress> delete iprange <StartIP> <EndIP> [sc=<savecomment>]
 Deletes an address pool from a DHCP scope.

add reservedip <ReservedIP> <MAC_Address> n=<ClientName>
 [c=<ClientComment>] [t=<ClientType>(DHCP | BOOTP | BOTH)]
 [d=<DDNSHostName>] [sc=<savecomment>]
 Adds a reservation to a DHCP scope. The c=<ClientComment> argument is for MS
 DHCP only

delete reservedip <ReservedIP> <MAC_address> [sc=<savecomment>]
 Deletes a reservation from a DHCP scope.

set property [sc=<savecomment>] [<field1>=<value1>] [<field2>=<value2>]*
 Set properties for scope.

show optionvalue
 Shows DHCP scope options.

[<ServerAddress>] set optionvalue [sc=<savecomment>] [<field>=<value>,<value2>]*
 Set DHCP scope option.

[<ServerAddress>] delete optionvalue <OptCode>
 Deletes a DHCP scope option.

show reservedoptionvalue <ReservedIP>
 Shows DHCP scope reservation options.

set reservedoptionvalue <ReservedIP> [<field>=<value>,<value2>]*
 [sc=<savecomment>]
 Sets a DHCP scope reservation option.

delete reservedoptionvalue <ReservedIP> <OptCode>
 Deletes a DHCP scope reservation option.

scopes [-s] [-d] [<server>]

Lists DHCP scopes. If **<server>** is specified then it will only list scopes on that server. If the **-s** parameter is used, the command considers split scopes when calculating free addresses in address pools. When the **-d** parameter is used availability of free addresses for individual split scope instances is also displayed.

serverInfo <server>

Lists information about a server.

servers

Lists all servers available.

sleep <sec>

Sleeps for the specified number of seconds.

verify <zonenname>

Syntax checks a zone. Returns a list of syntax errors. If no errors exist within the zone nothing is returned.

version

Returns the version number of the program.

who

Returns a list of users that are logged in.

zonehistory

Queries the history log. For detailed description of the command see the History command.

zoneInfo <zonenname>

Displays information about a zone.

zoneModified <zonenname>

Returns indication of whether a zone has been modified. Returns true if zone is modified and needs to be saved.

zoneOptions <zonenname>

Returns options for a zone.

zones [-n] [<server>]

Lists all available zones. If the **-n** argument is specified, zones are sorted alphabetically. If omitted, forward zones are listed first, then reverse zones, and finally slave zones. The argument **<server>** is optional. If provided, the command only lists zones on the specified server.

Example Script

The script below is intended to help you get started using the Men & Mice CLI. You can use it as a starting point when writing your own scripts.

```
#####
# Demo script for Men & Mice command line interface
#####
# start by logging in to Men & Mice Central
login server.acme.com. user password

# print out all zones available
zones

# import a zone file 'zonefile.txt' as the zone 'test.zone.com.'
# on master server 'server.acme.com.'
import test.zone.com. server.acme.com. zonefile.txt

# print the zone
print test.zone.com.

# view the change history for a single zone
history zone=test.zone.com user=administrator from=2005.2.25

# add one record to it
# NOTE: we can use '-' to refer to the last used zone and -1 means at
# the end of the zone
add - -1 test.record 1d A 10.2.3.4 ; this is comment for the new record

# Disable the third record
disable - 3

# then save it with comments
save - imported this new zone from a file and added one record

# print out all history for the zone, which should of course
# only be the last save comment
history -

# Then quit and we should be back at the OS command prompt
# NOTE: we could skip this command and return to the
# command prompt of the Men & Mice CLI
quit
```