

# Using the Infinispan Command Line Interface

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# Chapter 1. Getting Started with the Infinispan CLI

The command line interface (CLI) lets you remotely connect to Infinispan servers to access data and perform administrative functions.

## 1.1. Creating and Modifying Users

Infinispan Server requires users to authenticate against a default property realm. Before you can access Infinispan Server, you must add credentials by creating at least one user and a password. You can also add and modify the security authorization groups to which users belong.

### *Procedure*

1. Open a terminal in `$ISP_HOME`.
2. Create and modify Infinispan users with the `user` command.



Run `help user` for more details about using the command.

### *Creating users and passwords*

- Linux

```
$ bin/cli.sh user create myuser -p "qwer1234!"
```

- Microsoft Windows

```
$ bin\cli.bat user create myuser -p "qwer1234!"
```

### *Creating users with group membership*

- Linux

```
$ bin/cli.sh user create myuser -p "qwer1234!" -g supervisor,reader,writer
```

- Microsoft Windows

```
$ bin\cli.bat user create myuser -p "qwer1234!" -g supervisor,reader,writer
```

## 1.2. Connecting to Infinispan Servers

Establish CLI connections to Infinispan.

### *Prerequisites*

Add user credentials and have at least one running Infinispan server instance.

#### Procedure

1. Open a terminal in `$ISPN_HOME`.
2. Start the CLI.

- **Linux:**

```
$ bin/cli.sh
```

- **Microsoft Windows:**

```
$ bin\cli.bat
```

3. Run the `connect` command and enter your username and password when prompted.

- Infinispan Server on the default port of `11222`:

```
[disconnected]> connect
```

- Infinispan Server with a port offset of `100`:

```
[disconnected]> connect 127.0.0.1:11322
```

## 1.3. Navigating CLI Resources

The Infinispan CLI exposes a navigable tree that allows you to list, describe, and manipulate Infinispan cluster resources.



Press the tab key to display available commands and options. Use the `-h` option to display help text.

When you connect to a Infinispan cluster, it opens in the context of the default cache container.

```
[//containers/default]>
```

- Use `ls` to list resources.

```
[//containers/default]> ls
caches
counters
configurations
schemas
tasks
```

- Use **cd** to navigate the resource tree.

```
[//containers/default]> cd caches
```

- Use **describe** to view information about resources.

```
[//containers/default]> describe
{
  "name" : "default",
  "version" : "xx.x.x-FINAL",
  "cluster_name" : "cluster",
  "coordinator" : true,
  "cache_configuration_names" : [ "org.infinispan.REPL_ASYNC", "___protobuf_metadata",
  "org.infinispan.DIST_SYNC", "org.infinispan.LOCAL",
  "org.infinispan.INVALIDATION_SYNC", "org.infinispan.REPL_SYNC",
  "org.infinispan.SCATTERED_SYNC", "org.infinispan.INVALIDATION_ASYNC",
  "org.infinispan.DIST_ASYNC" ],
  "physical_addresses" : "[192.0.2.0:7800]",
  "coordinator_address" : "<hostname>",
  "cache_manager_status" : "RUNNING",
  "created_cache_count" : "1",
  "running_cache_count" : "1",
  "node_address" : "<hostname>",
  "cluster_members" : [ "<hostname1>", "<hostname2>" ],
  "cluster_members_physical_addresses" : [ "192.0.2.0:7800", "192.0.2.0:7801" ],
  "cluster_size" : 2,
  "defined_caches" : [ {
    "name" : "mycache",
    "started" : true
  }, {
    "name" : "___protobuf_metadata",
    "started" : true
  } ]
}
```

### 1.3.1. CLI Resources

The Infinispan CLI exposes different resources to:

- create, modify, and manage local or clustered caches.

- perform administrative operations for Infinispan clusters.

#### Cache Resources

```
[//containers/default]> ls  
caches  
counters  
configurations  
schemas
```

##### **caches**

Infinispan cache instances. The default cache container is empty. Use the CLI to create caches from templates or `infinispan.xml` files.

##### **counters**

**Strong** or **Weak** counters that record the count of objects.

##### **configurations**

Infinispan configurations.

##### **schemas**

Protocol Buffers (Protobuf) schemas that structure data in the cache.

##### **tasks**

Remote tasks creating and managing Infinispan cache definitions.

#### Cluster Resources

```
[hostname@cluster/]> ls  
containers  
cluster  
server
```

##### **containers**

Cache containers on the Infinispan cluster.

##### **cluster**

Lists Infinispan servers joined to the cluster.

##### **server**

Resources for managing and monitoring Infinispan servers.

## 1.4. Shutting Down Infinispan Server

Stop individually running servers or bring down clusters gracefully.

#### Procedure

1. Create a CLI connection to Infinispan.
2. Shut down Infinispan Server in one of the following ways:

- Stop all nodes in a cluster with the `shutdown cluster` command, for example:

```
[//containers/default]> shutdown cluster
```

This command saves cluster state to the `data` folder for each node in the cluster. If you use a cache store, the `shutdown cluster` command also persists all data in the cache.

- Stop individual server instances with the `shutdown server` command and the server hostname, for example:

```
[//containers/default]> shutdown server <my_server01>
```



The `shutdown server` command does not wait for rebalancing operations to complete, which can lead to data loss if you specify multiple hostnames at the same time.



Run `help shutdown` for more details about using the command.

### Verification

Infinispan logs the following messages when you shut down servers:

```
ISPN080002: Infinispan Server stopping
ISPN000080: Disconnecting JGroups channel cluster
ISPN000390: Persisted state, version=<$version> timestamp=YYYY-MM-DDTHH:MM:SS
ISPN080003: Infinispan Server stopped
```

## 1.4.1. Restarting Infinispan Clusters

When you bring Infinispan clusters back online after shutting them down, you should wait for the cluster to be available before adding or removing nodes or modifying cluster state.

If you shutdown clustered nodes with the `shutdown server` command, you must restart each server in reverse order.

For example, if you shutdown `server1` and then shutdown `server2`, you should first start `server2` and then start `server1`.

If you shutdown a cluster with the `shutdown cluster` command, clusters become fully operational only after all nodes rejoin.

You can restart nodes in any order but the cluster remains in DEGRADED state until all nodes that were joined before shutdown are running.

# Chapter 2. Performing Cache Operations with the Infinispan CLI

The command line interface (CLI) lets you remotely connect to Infinispan servers to access data and perform administrative functions.

## 2.1. Creating Caches with the Infinispan Command Line Interface (CLI)

Use the Infinispan CLI to add caches from templates or configuration files in XML or JSON format.

### Prerequisites

Create a user and start at least one Infinispan server instance.

### Procedure

1. Create a CLI connection to Infinispan.
2. Add cache definitions with the `create cache` command.
  - Add a cache definition from an XML or JSON file with the `--file` option.

```
[//containers/default]> create cache --file=configuration.xml mycache
```

- Add a cache definition from a template with the `--template` option.

```
[//containers/default]> create cache --template=org.infinispan.DIST_SYNC mycache
```



Press the tab key after the `--template=` argument to list available cache templates.

3. Verify the cache exists with the `ls` command.

```
[//containers/default]> ls caches  
mycache
```

4. Retrieve the cache configuration with the `describe` command.

```
[//containers/default]> describe caches/mycache
```

### Reference

- [Creating Infinispan CLI Connections](#)
- [Performing Cache Operations with the Infinispan CLI](#)

### 2.1.1. XML Configuration

Infinispan configuration in XML format must conform to the schema and include:

- `<infinispan>` root element.
- `<cache-container>` definition.

*Example XML Configuration*

```
<infinispan>
  <cache-container>
    <distributed-cache name="myCache" mode="SYNC">
      <encoding media-type="application/x-protostream"/>
      <memory max-count="1000000" when-full="REMOVE"/>
    </distributed-cache>
  </cache-container>
</infinispan>
```

### 2.1.2. JSON Configuration

Infinispan configuration in JSON format:

- Requires the cache definition only.
- Must follow the structure of an XML configuration.
  - XML elements become JSON objects.
  - XML attributes become JSON fields.

*Example JSON Configuration*

```
{
  "distributed-cache": {
    "name": "myCache",
    "mode": "SYNC",
    "encoding": {
      "media-type": "application/x-protostream"
    },
    "memory": {
      "max-count": 1000000,
      "when-full": "REMOVE"
    }
  }
}
```

## 2.2. Adding Cache Entries

Create **key:value** pair entries in the data container.

### Prerequisites

Create a Infinispan cache that can store your data.

### Procedure

1. Create a CLI connection to Infinispan.
2. Add entries into your cache as follows:
  - Use the **put** command from the context of a cache:

```
[//containers/default/caches/mycache]> put hello world
```

- Use the **--cache=** with the **put** command:

```
[//containers/default]> put --cache=mycache hello world
```

3. Use the **get** command to verify entries.

```
[//containers/default/caches/mycache]> get hello  
world
```

## 2.3. Clearing Caches and Deleting Entries

Remove data from caches with the Infinispan CLI.

### Procedure

1. Create a CLI connection to Infinispan.
2. Do one of the following:
  - Delete all entries with the **clearcache** command.

```
[//containers/default]> clearcache mycache
```

- Remove specific entries with the **remove** command.

```
[//containers/default]> remove --cache=mycache hello
```

## 2.4. Deleting Caches

Drop caches to remove them and delete all data they contain.

### Procedure

1. Create a CLI connection to Infinispan.

2. Remove caches with the **drop** command.

```
[//containers/default]> drop cache mycache
```

# Chapter 3. Performing Batch Operations

Process operations in groups, either interactively or using batch files.

## Prerequisites

- A running Infinispan cluster.

## 3.1. Performing Batch Operations with Files

Create files that contain a set of operations and then pass them to the Infinispan CLI.

### Procedure

1. Create a file that contains a set of operations.

For example, create a file named `batch` that creates a cache named `mybatch`, adds two entries to the cache, and disconnects from the CLI.

```
$ cat > batch<<EOF
create cache --template=org.infinispan.DIST_SYNC mybatch
put --cache=mybatch hello world
put --cache=mybatch hola mundo
disconnect
EOF
```

2. Run the CLI and specify the file as input.

```
$ bin/cli.sh -c localhost:11222 -f batch
```

3. Create a new Infinispan CLI connection and verify `mybatch`.

```
[//containers/default]> ls caches
___protobuf_metadata
mybatch
[//containers/default]> ls caches/mybatch
hola
hello
[//containers/default]> disconnect
[disconnected]>
```



CLI batch files support system property expansion. Strings that use the `${property}` format are replaced with the value of the `property` system property.

## 3.2. Performing Batch Operations Interactively

Use the standard input stream, **stdin**, to perform batch operations interactively.

### Procedure

1. Start the Infinispan CLI in interactive mode.

```
$ bin/cli.sh -c localhost:11222 -f -
```



If you do not use the **-c** flag, you must run the **connect** command.

```
$ bin/cli.sh -f -  
connect
```

2. Run batch operations, for example:

```
create cache --template=org.infinispan.DIST_SYNC mybatch  
put --cache=mybatch hello world  
put --cache=mybatch hola mundo  
disconnect  
quit
```



Use **echo** to add commands in interactive mode.

The following example shows how to use **echo describe** to get cluster information:

```
$ echo describe|bin/cli.sh -c localhost:11222 -f -
{
  "name" : "default",
  "version" : "10.0.0-SNAPSHOT",
  "coordinator" : false,
  "cache_configuration_names" : [ "org.infinispan.REPL_ASYNC", "___protobuf_metadata",
"org.infinispan.DIST_SYNC", "qcache", "org.infinispan.LOCAL", "dist_cache_01",
"org.infinispan.INVALIDATION_SYNC", "org.infinispan.REPL_SYNC",
"org.infinispan.SCATTERED_SYNC", "mycache", "org.infinispan.INVALIDATION_ASYNC",
"mybatch", "org.infinispan.DIST_ASYNC" ],
  "cluster_name" : "cluster",
  "physical_addresses" : "[192.168.1.7:7800]",
  "coordinator_address" : "thundercat-34689",
  "cache_manager_status" : "RUNNING",
  "created_cache_count" : "4",
  "running_cache_count" : "4",
  "node_address" : "thundercat-47082",
  "cluster_members" : [ "thundercat-34689", "thundercat-47082" ],
  "cluster_members_physical_addresses" : [ "10.36.118.25:7801", "192.168.1.7:7800" ],
  "cluster_size" : 2,
  "defined_caches" : [ {
    "name" : "___protobuf_metadata",
    "started" : true
  }, {
    "name" : "mybatch",
    "started" : true
  } ]
}
```

# Chapter 4. Configuring the Infinispan CLI

Define configuration properties for the Infinispan CLI.

## 4.1. Setting Infinispan CLI Properties and Persistent Storage

Configure Infinispan CLI startup operations and customize the location for persistent storage.

### Prerequisites

Create at least one Infinispan user.

### Procedure

1. Optionally set a custom path to the Infinispan CLI storage directory in one of the following ways:

- Using the `cli.dir` system property:

```
$ bin/cli.sh -Dcli.dir=/path/to/cli/storage ...
```

- Using the `ISPN_CLI_DIR` environment variable:

```
export ISPN_CLI_DIR=/path/to/cli/storage
$ bin/cli.sh ...
```

2. Set values for configuration properties with the `config set` command.
3. Verify configuration properties with the `config get` command.



Run `help config` to review available configuration properties and get example usage.

## 4.2. Creating Command Aliases

Create aliases for Infinispan CLI commands to define custom shortcuts.

### Procedure

1. Create aliases with the `alias <alias>=<command>` command.

For example, set `q` as an alias for the `quit` command:

```
[//containers/default]> alias q=quit
```

2. Run the `alias` command to check the defined aliases.

```
[//containers/default]> alias  
alias q='quit'
```

3. Delete aliases with the **unalias** command, for example:

```
[//containers/default]> unalias q
```

## 4.3. Trusting Infinispan Server Connections

Secure Infinispan CLI connections to Infinispan Server with SSL/TLS certificates. If you create a key store as an SSL identity for Infinispan Server, the CLI can validate server certificates to verify the identity.

### *Prerequisites*

- Set up an SSL identity for Infinispan Server.
- Create at least one Infinispan user.

### *Procedure*

1. Specify the location of the server key store, as in the following example:

```
$ bin/cli.sh config set truststore /home/user/my-trust-store.jks
```

2. Define the key store password, if necessary, as follows:

```
$ bin/cli.sh config set truststore-password secret
```

3. Verify your CLI configuration.

```
$ bin/cli.sh config get truststore  
truststore=/home/user/my-trust-store.jks  
  
$ bin/cli.sh config get truststore-password  
truststore-password=secret
```

### *Reference*

[Setting Up SSL Identities for Infinispan Server](#)

## 4.4. Infinispan CLI Storage Directory

Infinispan CLI stores configuration in the following default directory:

Operating System	Default Path
Linux/Unix	<code>\$HOME/.config/{brandshortname}</code>
Microsoft Windows	<code>%APPDATA%/Sun/Java/{brandshortname}</code>
Mac OS	<code>\$HOME/Library/Java/{brandshortname}</code>

This directory contains the following files:

#### **cli.properties**

Stores values for CLI configuration properties.

#### **aliases**

Stores command aliases.

#### **history**

Stores CLI history.

# Chapter 5. Working with Counters

Counters provide atomic increment and decrement operations that record the count of objects.

## Prerequisites

- Start the Infinispan CLI.
- Connect to a running Infinispan cluster.

## 5.1. Creating Counters

Create strong and weak counters with the Infinispan CLI.

### Procedure

1. Create a CLI connection to Infinispan.
2. Run the `create counter` command with the appropriate arguments.
  - a. Create `my-weak-counter`.

```
[//containers/default]> create counter --concurrency-level=1 --initial-value=5 -  
-storage=PERSISTENT --type=weak my-weak-counter
```

- b. Create `my-strong-counter`.

```
[//containers/default]> create counter --initial-value=3 --storage=PERSISTENT --  
type=strong my-strong-counter
```

3. List available counters.

```
[//containers/default]> ls counters  
my-strong-counter  
my-weak-counter
```

4. Verify counter configurations.
  - a. Describe `my-weak-counter`.

```
[//containers/default]> describe counters/my-weak-counter

{
  "weak-counter":{
    "initial-value":5,
    "storage":"PERSISTENT",
    "concurrency-level":1
  }
}
```

b. Describe **my-strong-counter**.

```
[//containers/default]> describe counters/my-strong-counter

{
  "strong-counter":{
    "initial-value":3,
    "storage":"PERSISTENT",
    "upper-bound":5
  }
}
```

## 5.2. Adding Deltas to Counters

Increment or decrement counters with arbitrary values.

### *Procedure*

1. Select a counter.

```
[//containers/default]> counter my-weak-counter
```

2. List the current count.

```
[//containers/default/counters/my-weak-counter]> ls
5
```

3. Increment the counter value by **2**.

```
[//containers/default/counters/my-weak-counter]> add --delta=2
```

4. Decrement the counter value by **-4**.

```
[//containers/default/counters/my-weak-counter]> add --delta=-4
```



Strong counters return values after the operation is applied. Use `--quiet=true` to hide the return value.

For example, `my-strong-counter]> add --delta=3 --quiet=true`.

Weak counters return empty responses.

# Chapter 6. Querying Caches with Protobuf Metadata

Infinispan supports using Protocol Buffers (Protobuf) to structure data in the cache so that you can query it.

## Prerequisites

- Start the Infinispan CLI.
- Connect to a running Infinispan cluster.

## 6.1. Configuring Media Types

Encode cache entries with different media types to store data in a format that best suits your requirements.

For example, the following procedure shows you how to configure the `application/x-protostream` media type.

## Procedure

1. Create a Infinispan configuration file that adds a distributed cache named `qcache` and configures the media type, for example:

```
<infinispan>
  <cache-container>
    <distributed-cache name="qcache">
      <encoding>
        <key media-type="application/x-protostream"/>
        <value media-type="application/x-protostream"/>
      </encoding>
    </distributed-cache>
  </cache-container>
</infinispan>
```

2. Create `qcache` from `pcache.xml` with the `--file=` option.

```
[//containers/default]> create cache --file=pcache.xml pcache
```

3. Verify `pcache`.

```

[/containers/default]> ls caches
pcache
__protobuf_metadata
[/containers/default]> describe caches/pcache
{
  "distributed-cache" : {
    "mode" : "SYNC",
    "encoding" : {
      "key" : {
        "media-type" : "application/x-protostream"
      },
      "value" : {
        "media-type" : "application/x-protostream"
      }
    },
    "transaction" : {
      "mode" : "NONE"
    }
  }
}

```

4. Add an entry to **pcache** and check the encoding.

```

[/containers/default]> put --cache=pcache good morning
[/containers/default]> cd caches/pcache
[/containers/default/caches/pcache]> get good
{
  "_type" : "string",
  "_value" : "morning"
}

```

## 6.2. Registering Protobuf Schemas

Protobuf schemas contain data structures known as messages in **.proto** definition files.

### *Procedure*

1. Create a schema file named **person.proto** with the following messages:

```

package org.infinispan.rest.search.entity;

message Address {
    required string street = 1;
    required string postCode = 2;
}

message PhoneNumber {
    required string number = 1;
}

message Person {
    optional int32 id = 1;
    required string name = 2;
    required string surname = 3;
    optional Address address = 4;
    repeated PhoneNumber phoneNumbers = 5;
    optional uint32 age = 6;
    enum Gender {
        MALE = 0;
        FEMALE = 1;
    }

    optional Gender gender = 7;
}

```

2. Register `person.proto`.

```
[//containers/default]> schema --upload=person.proto person.proto
```

3. Verify `person.proto`.

```

[//containers/default]> cd caches/___protobuf_metadata
[//containers/default/caches/___protobuf_metadata]> ls
person.proto
[//containers/default/caches/___protobuf_metadata]> get person.proto

```

## 6.3. Querying Caches with Protobuf Schemas

Infinispan automatically converts JSON to Protobuf so that you can read and write cache entries in JSON format and use Protobuf schemas to query them.

For example, consider the following JSON documents:

### lukecage.json

```
{
  "_type": "org.infinispan.rest.search.entity.Person",
  "id": 2,
  "name": "Luke",
  "surname": "Cage",
  "gender": "MALE",
  "address": {"street": "38th St", "postCode": "NY 11221"},
  "phoneNumbers": [{"number": 4444}, {"number": 5555}]
}
```

### jessicajones.json

```
{
  "_type": "org.infinispan.rest.search.entity.Person",
  "id": 1,
  "name": "Jessica",
  "surname": "Jones",
  "gender": "FEMALE",
  "address": {"street": "46th St", "postCode": "NY 10036"},
  "phoneNumbers": [{"number": 1111}, {"number": 2222}, {"number": 3333}]
}
```

### matthewmurdock.json

```
{
  "_type": "org.infinispan.rest.search.entity.Person",
  "id": 3,
  "name": "Matthew",
  "surname": "Murdock",
  "gender": "MALE",
  "address": {"street": "57th St", "postCode": "NY 10019"},
  "phoneNumbers": []
}
```

Each of the preceding JSON documents contains:

- A **\_type** field that identifies the Protobuf message to which the JSON document corresponds.
- Several fields that correspond to datatypes in the **person.proto** schema.

#### Procedure

1. Navigate to the **pcache** cache.

```
[//containers/default/caches]> cd pcache
```

2. Add each JSON document as an entry to the cache, for example:

```
[//containers/default/caches/pcache]> put --encoding=application/json  
--file=jessicajones.json jessicajones  
[//containers/default/caches/pcache]> put --encoding=application/json  
--file=matthewmurdock.json matthewmurdock  
[//containers/default/caches/pcache]> put --encoding=application/json  
--file=lukecage.json lukecage
```

3. Verify that the entries exist.

```
[//containers/default/caches/pcache]> ls  
lukecage  
matthewmurdock  
jessicajones
```

4. Query the cache to return entries from the Protobuf **Person** entity where the gender datatype is **MALE**.

```

[//containers/default/caches/pcache]> query "from
org.infinispan.rest.search.entity.Person p where p.gender = 'MALE'"
{
  "total_results" : 2,
  "hits" : [ {
    "hit" : {
      "_type" : "org.infinispan.rest.search.entity.Person",
      "id" : 2,
      "name" : "Luke",
      "surname" : "Cage",
      "gender" : "MALE",
      "address" : {
        "street" : "38th St",
        "postCode" : "NY 11221"
      },
      "phoneNumbers" : [ {
        "number" : "4444"
      }, {
        "number" : "5555"
      } ]
    }
  }, {
    "hit" : {
      "_type" : "org.infinispan.rest.search.entity.Person",
      "id" : 3,
      "name" : "Matthew",
      "surname" : "Murdock",
      "gender" : "MALE",
      "address" : {
        "street" : "57th St",
        "postCode" : "NY 10019"
      }
    }
  } ]
}

```

# Chapter 7. Performing Cross-Site Replication Operations

Infinispan clusters running in different locations can discover and communicate with each other to backup data.

## Prerequisites

- Start the Infinispan CLI.
- Connect to a running Infinispan cluster.

## 7.1. Bringing Backup Locations Offline and Online

Take backup locations offline manually and bring them back online.

### Procedure

1. Create a CLI connection to Infinispan.
2. Check if backup locations are online or offline with the `site status` command:

```
//containers/default]> site status --cache=cacheName --site=NYC
```



--site is an optional argument. If not set, the CLI returns all backup locations.

3. Manage backup locations as follows:
  - Bring backup locations online with the `bring-online` command:

```
//containers/default]> site bring-online --cache=customers --site=NYC
```

- Take backup locations offline with the `take-offline` command:

```
//containers/default]> site take-offline --cache=customers --site=NYC
```

For more information and examples, run the `help site` command.

## 7.2. Pushing State to Backup Locations

Transfer cache state to remote backup locations.

### Procedure

1. Create a CLI connection to Infinispan.
2. Use the `site` command to push state transfer, as in the following example:

```
//containers/default]> site push-site-state --cache=cacheName --site=NYC
```

For more information and examples, run the `help site` command.

# Chapter 8. Command Reference

Review manual pages for Infinispan CLI commands.



Use `help` command to access manual pages directly from your CLI session.

For example, to view the manual page for the `get` command do the following:

```
$ help get
```

## 8.1. ADD(1)

### 8.1.1. NAME

`add` - increments and decrements counters with arbitrary values.

### 8.1.2. SYNOPSIS

```
add ['OPTIONS'] ['COUNTER_NAME']
```

### 8.1.3. OPTIONS

`--delta='nnn'`

Sets a delta to increment or decrement the counter value. Defaults to `1`.

`-q, --quiet='[true|false]'`

Hides return values for strong counters. The default is `false`.

### 8.1.4. EXAMPLES

```
add --delta=10 cnt_a
```

Increments the value of `cnt_a` by `10`.

```
add --delta=-5 cnt_a
```

Decrements the value of `cnt_a` by `5`.

### 8.1.5. SEE ALSO

`cas(1)`, `reset(1)`

## 8.2. ALIAS(1)

### 8.2.1. NAME

`alias` - creates or displays aliases.

### 8.2.2. SYNOPSIS

**alias** ['ALIAS-NAME']='COMMAND']

### 8.2.3. EXAMPLES

**alias** q=quit

Creates **q** as an alias for the **quit** command.

**alias**

Lists all defined aliases.

### 8.2.4. SEE ALSO

config(1), unalias(1)

## 8.3. CACHE(1)

### 8.3.1. NAME

cache - selects the default cache for subsequent commands.

### 8.3.2. SYNOPSIS

**cache** ['CACHE\_NAME']

### 8.3.3. EXAMPLE

**cache** mycache

Selects **mycache** and is the same as navigating the resource tree using **cd caches/mycache**.

### 8.3.4. SEE ALSO

cd(1), clear(1), container(1), get(1), put(1), remove(1)

## 8.4. CAS(1)

### 8.4.1. NAME

cas - performs 'compare-and-swap' operations on strong counters.

### 8.4.2. SYNOPSIS

**cas** ['OPTIONS'] ['COUNTER\_NAME']

### 8.4.3. OPTIONS

**--expect='nnn'**

Specifies the expected value of the counter.

**--value='nnn'**

Sets a new value for the counter.

**-q, --quiet='[true|false]'**

Hides return values. The default is false.

#### 8.4.4. EXAMPLE

```
cas --expect=10 --value=20 cnt_a
```

Sets the value of `cnt_a` to `20` only if the current value is `10`

#### 8.4.5. SEE ALSO

`add(1)`, `cas(1)`, `reset(1)`

### 8.5. CD(1)

#### 8.5.1. NAME

`cd` - navigates the server resource tree.

#### 8.5.2. DESCRIPTION

`PATH` can be absolute or relative to the current resource. `../` specifies parent resources.

#### 8.5.3. SYNOPSIS

```
cd ['PATH']
```

#### 8.5.4. EXAMPLE

```
cd caches
```

Changes to the `caches` path in the resource tree.

#### 8.5.5. SEE ALSO

`cache(1)`, `ls(1)`, `container(1)`

### 8.6. CLEARCACHE(1)

#### 8.6.1. NAME

`clearcache` - removes all entries from a cache.

## 8.6.2. SYNOPSIS

**clearcache** ['CACHE\_NAME']

## 8.6.3. EXAMPLES

**clearcache mycache**

Removes all entries from **mycache**.

## 8.6.4. SEE ALSO

cache(1), drop(1), remove(1)

# 8.7. CONFIG(1)

## 8.7.1. NAME

config - manages CLI configuration properties.

## 8.7.2. SYNOPSIS

**config**

**config set** 'name' 'value'

**config get** 'name'

## 8.7.3. DESCRIPTION

Manage (list, set, get) CLI configuration properties.

## 8.7.4. COMMAND SYNOPSIS

**config**

Lists all configuration properties that are set.

**config set** 'name' ['value']

Sets the value of a specific property. If you do not specify a value, the property is not set.

**config get** 'name'

Retrieves the value of a specific property.

## 8.7.5. COMMON OPTIONS

These options apply to all commands:

**-h, --help**

Displays a help page for the command or sub-command.

## 8.7.6. PROPERTIES

### **autoconnect-url**

Specifies the URL to which the CLI automatically connects on startup.

### **autoexec**

Specifies the path of a CLI batch file to execute on startup.

### **trustall**

Specifies whether to trust all server certificates. Values are **false** (default) and **true**.

### **truststore**

Defines the path to a keystore that contains a certificate chain that verifies server identity.

### **truststore-password**

Specifies a password to access the keystore.

## 8.7.7. EXAMPLES

```
config set autoconnect-url http://192.0.2.0:11222
```

Connects to a server at a custom IP address when you start the CLI.

```
config get autoconnect-url
```

Returns the value for the **autoconnect-url** configuration property.

```
config set autoexec /path/to/mybatchfile
```

Runs a batch file named "mybatchfile" when you start the CLI.

```
config set trustall true
```

Trusts all server certificates.

```
config set truststore /home/user/my-trust-store.jks
```

Specifies the path of a keystore named "my-trust-store.jks".

```
config set truststore-password secret
```

Sets the keystore password, if required.

## 8.7.8. SEE ALSO

`alias(1)`, `unalias(1)`

## 8.8. CONNECT(1)

### 8.8.1. NAME

`connect` - connects to running `${infinispan.brand.name}` servers.

### 8.8.2. DESCRIPTION

Defaults to <http://localhost:11222> and prompts for credentials if authentication is required.

### 8.8.3. SYNOPSIS

**connect** ['OPTIONS'] ['SERVER\_LOCATION']

### 8.8.4. OPTIONS

**-u, --username='USERNAME'**

Specifies a username to authenticate with \${infinispan.brand.name} servers.

**-p, --password='PASSWORD'**

Specifies passwords.

### 8.8.5. EXAMPLE

```
connect 127.0.0.1:11322 -u test -p changeme
```

Connects to a locally running server using a port offset of 100 and example credentials.

### 8.8.6. SEE ALSO

disconnect(1)

## 8.9. CONTAINER(1)

### 8.9.1. NAME

container - selects the container for running subsequent commands.

### 8.9.2. SYNOPSIS

**container** ['CONTAINER\_NAME']

### 8.9.3. EXAMPLE

```
container default
```

Selects the default container and is the same as navigating the resource tree using `cd containers/default`.

### 8.9.4. SEE ALSO

cd(1), clear(1), container(1), get(1), put(1), remove(1)

## 8.10. COUNTER(1)

### 8.10.1. NAME

counter - selects the default counter for subsequent commands.

### 8.10.2. SYNOPSIS

**counter** ['COUNTER\_NAME']

### 8.10.3. EXAMPLE

**counter cnt\_a**

Selects **cnt\_a** and is the same as navigating the resource tree using **cd counters/cnt\_a**.

### 8.10.4. SEE ALSO

add(1), cas(1)

## 8.11. CREATE(1)

### 8.11.1. NAME

create - creates caches and counters on \${infinispan.brand.name} servers.

### 8.11.2. SYNOPSIS

**create cache** ['OPTIONS'] **CACHE\_NAME**

**create counter** ['OPTIONS'] **COUNTER\_NAME**

### 8.11.3. CREATE CACHE OPTIONS

**-f, --file='FILE'**

Specifies a configuration file in JSON or XML format.

**-t, --template='TEMPLATE'**

Specifies a configuration template. Use tab autocompletion to see available templates.

**-v, --volatile='[true | false]'**

Specifies whether the cache is persistent or volatile. The default is false.

### 8.11.4. CREATE COUNTER OPTIONS

**-t, --type='[weak | strong]'**

Specifies if the counter is weak or strong.

**-s, --storage='[PERSISTENT | VOLATILE]'**

Specifies whether the counter is persistent or volatile.

**-c, --concurrency-level='nnn'**

Sets the concurrency level of the counter.

**-i, --initial-value='nnn'**

Sets the initial value of the counter.

**-l, --lower-bound='nnn'**

Sets the lower bound of a **strong** counter.

**-u, --upper-bound='nnn'**

Sets the upper bound of a **strong** counter.

### 8.11.5. EXAMPLES

```
create cache --template=org.infinispan.DIST_SYNC mycache
```

Creates a cache named `mycache` from the `DIST_SYNC` template.

```
create counter --initial-value=3 --storage=PERSISTENT --type=strong cnt_a
```

Creates a strong counter named `cnt_a`.

### 8.11.6. SEE ALSO

`drop(1)`

## 8.12. DESCRIBE(1)

### 8.12.1. NAME

`describe` - displays information about resources.

### 8.12.2. SYNOPSIS

**describe** ['PATH']

### 8.12.3. EXAMPLES

```
describe //containers/default
```

Displays information about the default container.

```
describe //containers/default/caches/mycache
```

Displays information about the `mycache` cache.

```
describe //containers/default/caches/mycache/k1
```

Displays information about the `k1` key.

```
describe //containers/default/counters/cnt1
```

Displays information about the `cnt1` counter.

#### 8.12.4. SEE ALSO

cd(1), ls(1)

### 8.13. DISCONNECT(1)

#### 8.13.1. NAME

disconnect - ends CLI sessions with \${infinispan.brand.name} servers.

#### 8.13.2. SYNOPSIS

**disconnect**

#### 8.13.3. EXAMPLE

**disconnect**

Ends the current CLI session.

#### 8.13.4. SEE ALSO

connect(1)

### 8.14. DROP(1)

#### 8.14.1. NAME

drop - deletes caches and counters.

#### 8.14.2. SYNOPSIS

**drop cache** **CACHE\_NAME**

**drop counter** **COUNTER\_NAME**

#### 8.14.3. EXAMPLES

**drop cache mycache**

Deletes the **mycache** cache.

**drop counter cnt\_a**

Deletes the **cnt\_a** counter.

#### 8.14.4. SEE ALSO

create(1), clearcache(1)

## 8.15. ENCODING(1)

### 8.15.1. NAME

encoding - displays and sets the encoding for cache entries.

### 8.15.2. DESCRIPTION

Sets a default encoding for **put** and **get** operations on a cache. If no argument is specified, the **encoding** command displays the current encoding.

Valid encodings use standard MIME type (IANA media types) naming conventions, such as the following:

- `text/plain`
- `application/json`
- `application/xml`
- `application/octet-stream`

### 8.15.3. SYNOPSIS

**encoding** ['ENCODING']

### 8.15.4. EXAMPLE

```
encoding application/json
```

Configures the currently selected cache to encode entries as `application/json`.

### 8.15.5. SEE ALSO

`get(1)`, `put(1)`

## 8.16. GET(1)

### 8.16.1. NAME

`get` - retrieves entries from a cache.

### 8.16.2. SYNOPSIS

**get** ['OPTIONS'] **KEY**

### 8.16.3. OPTIONS

**-c, --cache='NAME'**

Specifies the cache from which to retrieve entries. Defaults to the currently selected cache.

### 8.16.4. EXAMPLE

`get hello -c mycache`

Retrieves the value of the key named `hello` from `mycache`.

### 8.16.5. SEE ALSO

`query(1)`, `put(1)`

## 8.17. HELP(1)

### 8.17.1. NAME

`help` - prints manual pages for commands.

### 8.17.2. SYNOPSIS

`help` [`COMMAND`]

### 8.17.3. EXAMPLE

`help get`

Prints the manual page for the `get` command.

### 8.17.4. SEE ALSO

`version(1)`

## 8.18. LOGGING(1)

### 8.18.1. NAME

`logging` - inspects and manipulates the `${infinispan.brand.name}` server runtime logging configuration.

### 8.18.2. SYNOPSIS

`logging list-loggers`

`logging list-appenders`

`logging set` [`OPTIONS`] [`LOGGER_NAME`]

`logging remove` `LOGGER_NAME`

### 8.18.3. LOGGING SET OPTIONS

`-l, --level='OFF|TRACE|DEBUG|INFO|WARN|ERROR|ALL'`

Specifies the logging level for the specific logger.

**-a, --appender='APPENDER'**

Specifies an appenders to set on the specific logger. The option can be repeated for multiple appenders.



calling **logging set** without a logger name will modify the root logger.

## 8.18.4. EXAMPLES

`logging list-loggers`

Lists all available loggers

`logging set --level=DEBUG --appenders=FILE org.infinispan`

Sets the log level for the `org.infinispan` logger to `DEBUG` and configures it to use the `FILE` appender.

## 8.19. LS(1)

### 8.19.1. NAME

`ls` - lists resources for the current path or a given path.

### 8.19.2. SYNOPSIS

`ls ['PATH']`

### 8.19.3. EXAMPLES

`ls caches`

Lists the available caches.

`ls ../`

Lists parent resources.

### 8.19.4. SEE ALSO

`cd(1)`

## 8.20. MIGRATE(1)

### 8.20.1. NAME

`migrate` - migrates data from one version of `${infinispan.brand.name}` to another.

### 8.20.2. SYNOPSIS

`migrate cluster synchronize`

## **migrate cluster disconnect**

### **8.20.3. DESCRIPTION**

Use the **migrate** command to migrate data from one version of `${infinispan.brand.name}` to another.

### **8.20.4. COMMAND SYNOPSIS**

Migrate clusters

#### **migrate cluster synchronize**

Synchronize data between the source cluster and the target cluster.

#### **migrate cluster disconnect**

Disconnects the target cluster from the source cluster.

### **8.20.5. COMMON OPTIONS**

These options apply to all commands:

#### **-h, --help**

Displays a help page for the command or sub-command.

### **8.20.6. CLUSTER SYNCHRONIZE OPTIONS**

#### **-c, --cache='name'**

The name of the cache to synchronize.

#### **-b, --read-batch='num'**

The amount of entries to process in a batch. Defaults to 10000.

#### **-t, --threads='num'**

The number of threads to use. Defaults to the number of cores on the server.

### **8.20.7. CLUSTER DISCONNECT OPTIONS**

#### **-c, --cache='name'**

The name of the cache to disconnect from the source.

## **8.21. PATCH(1)**

### **8.21.1. NAME**

patch - manages server patches.

### 8.21.2. DESCRIPTION

List, describe, install, rollback, and create server patches.

Patches are zip archive files that contain artifacts to upgrade servers and resolve issues or add new features. Patches can apply target versions to multiple server installations with different versions.

### 8.21.3. SYNOPSIS

**patch ls**

**patch install** 'patch-file'

**patch describe** 'patch-file'

**patch rollback**

**patch create** 'patch-file' 'target-server' 'source-server-1' ['source-server-2'...]

### 8.21.4. PATCH LIST OPTIONS

**--server='path/to/server'**

Sets the path to a target server outside the current server home directory.

**-v, --verbose**

Shows the content of each installed patch, including information about individual files.

### 8.21.5. PATCH INSTALL OPTIONS

**--dry-run**

Shows the operations that the patch performs without applying any changes.

**--server='path/to/server'**

Sets the path to a target server outside the current server home directory.

### 8.21.6. PATCH DESCRIBE OPTIONS

**-v, --verbose**

Shows the content of the patch, including information about individual files

### 8.21.7. PATCH ROLLBACK OPTIONS

**--dry-run**

Shows the operations that the patch performs without applying any changes.

**--server='path/to/server'**

Sets the path to a target server outside the current server home directory.

## 8.21.8. PATCH CREATE OPTIONS

**-q, --qualifier='name'**

Specifies a descriptive qualifier string for the patch; for example, 'one-off for issue nnnn'.

## 8.21.9. EXAMPLES

`patch ls`

Lists the patches currently installed on a server in order of installation.

`patch install mypatch.zip`

Installs "mypatch.zip" on a server in the current directory.

`patch install mypatch.zip --server=/path/to/server/home`

Installs "mypatch.zip" on a server in a different directory.

`patch describe mypatch.zip`

Displays the target version and list of source versions for "mypatch.zip".

`patch create mypatch.zip 'target-server' 'source-server-1' ['source-server-2'...]`

Creates a patch file named "mypatch.zip" that uses the version of the target server and applies to the source server versions.

`patch rollback`

Rolls back the last patch that was applied to a server and restores the previous version.

## 8.22. PUT(1)

### 8.22.1. NAME

put - adds or updates cache entries.

### 8.22.2. DESCRIPTION

Creates entries for new keys. Replaces values for existing keys.

### 8.22.3. SYNOPSIS

`put ['OPTIONS'] KEY [VALUE]`

### 8.22.4. OPTIONS

**-c, --cache='NAME'**

Specifies the name of the cache. Defaults to the currently selected cache.

**-e, --encoding='ENCODING'**

Sets the media type for the value.

**-f, --file='FILE'**

Specifies a file that contains the value for the entry.

**-l, --ttl='TTL'**

Sets the number of seconds before the entry is automatically deleted (time-to-live). Defaults to the value for `lifespan` in the cache configuration if `0` or not specified. If you set a negative value, the entry is never deleted.

**-i, --max-idle='MAXIDLE'**

Sets the number of seconds that the entry can be idle. If a read or write operation does not occur for an entry after the maximum idle time elapses, the entry is automatically deleted. Defaults to the value for `maxIdle` in the cache configuration if `0` or not specified. If you set a negative value, the entry is never deleted.

**-a, --if-absent=[true|false]**

Puts an entry only if it does not exist.

## 8.22.5. EXAMPLES

```
put -c mycache hello world
```

Adds the `hello` key with a value of `world` to the `mycache` cache.

```
put -c mycache -f myfile -i 500 hola
```

Adds the `hola` key with the value from the contents of `myfile`. Also sets a maximum idle of `500` seconds.

## 8.22.6. SEE ALSO

`get(1)`, `remove(1)`

# 8.23. QUERY(1)

## 8.23.1. NAME

`query` - retrieves entries that match Ickle query strings.

## 8.23.2. SYNOPSIS

```
query ['OPTIONS'] QUERY_STRING
```

## 8.23.3. OPTIONS

**-c, --cache='NAME'**

Specifies the cache to query. Defaults to the currently selected cache.

**--max-results='MAX\_RESULTS'**

Sets the number of results to return. The default is `10`.

**-o, --offset='OFFSET'**

Specifies the index of the first result to return. The default is 0.

**--query-mode='QUERY\_MODE'**

Specifies how the server executes the query. Values are **FETCH** and **BROADCAST**. The default is **FETCH**.

## 8.23.4. EXAMPLES

```
query "from org.infinispan.rest.search.entity.Person p where p.gender = 'MALE'"
```

Queries the currently selected cache to return entries from a Protobuf **Person** entity where the gender datatype is **MALE**.

## 8.23.5. SEE ALSO

schema(1)

# 8.24. QUIT(1)

## 8.24.1. NAME

quit - exits the command line interface.

## 8.24.2. SYNOPSIS

**quit**

## 8.24.3. EXAMPLE

```
quit
```

Exits the CLI.

## 8.24.4. SEE ALSO

disconnect(1), shutdown(1)

# 8.25. REMOVE(1)

## 8.25.1. NAME

remove - deletes entries from a cache.

## 8.25.2. SYNOPSIS

**remove** **KEY** ['OPTIONS']

### 8.25.3. OPTIONS

**--cache='NAME'**

Specifies the cache from which to remove entries. Defaults to the currently selected cache.

### 8.25.4. EXAMPLE

```
remove --cache=mycache hola
```

Deletes the `hola` entry from the `mycache` cache.

### 8.25.5. SEE ALSO

cache(1), drop(1), clearcache(1)

## 8.26. RESET(1)

### 8.26.1. NAME

reset - restores the initial values of counters.

### 8.26.2. SYNOPSIS

**reset** ['COUNTER\_NAME']

### 8.26.3. EXAMPLE

```
reset cnt_a
```

Resets the `cnt_a` counter.

### 8.26.4. SEE ALSO

add(1), cas(1), drop(1)

## 8.27. SCHEMA(1)

### 8.27.1. NAME

schema - uploads and registers protobuf schemas.

### 8.27.2. SYNOPSIS

**schema** ['OPTIONS'] SCHEMA\_NAME

### 8.27.3. OPTIONS

**-u, --upload='FILE'**

Uploads a file as a protobuf schema with the given name.

## 8.27.4. EXAMPLE

```
schema --upload=person.proto person.proto
```

Registers a `person.proto` Protobuf schema.

## 8.27.5. SEE ALSO

`query(1)`

# 8.28. SHUTDOWN(1)

## 8.28.1. NAME

`shutdown` - stops running servers or brings clusters down gracefully.

## 8.28.2. SYNOPSIS

**shutdown server** ['SERVERS']

**shutdown cluster**

## 8.28.3. EXAMPLES

```
shutdown server
```

Stops the server to which the CLI is connected.

```
shutdown server my_server01
```

Stops the server with hostname `my_server01`.

```
shutdown cluster
```

Stores cluster state, persists entries if you use a cache store, and stops all nodes.

## 8.28.4. SEE ALSO

`connect(1)`, `disconnect(1)`, `quit(1)`

# 8.29. SITE(1)

## 8.29.1. NAME

`site` - manages backup locations and performs cross-site replication operations.

## 8.29.2. SYNOPSIS

**site status** ['OPTIONS']

**site bring-online** ['OPTIONS']

**site take-offline** ['OPTIONS']

**site push-site-state** ['OPTIONS']

**site cancel-push-state** ['OPTIONS']

**site cancel-receive-state** ['OPTIONS']

**site push-site-status** ['OPTIONS']

### 8.29.3. OPTIONS

**--cache='CACHE\_NAME'**

Specifies a cache.

**--site='SITE\_NAME'**

Specifies a backup location.

### 8.29.4. EXAMPLES

**site status --cache=mycache**

Returns the status of all backup locations for **mycache**.

**site status --cache=mycache --site=NYC**

Returns the status of **NYC** for **mycache**.

**site bring-online --cache=mycache --site=NYC**

Brings the site **NYC** online for **mycache**.

**site take-offline --cache=mycache --site=NYC**

Takes the site **NYC** offline for **mycache**.

**site push-site-state --cache=mycache --site=NYC**

Backs up caches to remote backup locations.

**site push-site-status --cache=mycache**

Displays the status of the operation to backup **mycache**.

**site cancel-push-state --cache=mycache --site=NYC**

Cancels the operation to backup **mycache** to **NYC**.

**site cancel-receive-state --cache=mycache --site=NYC**

Cancels the operation to receive state from **NYC**.

**site clear-push-state-status --cache=myCache**

Clears the status of the push state operation for **mycache**.

## 8.30. STATS(1)

### 8.30.1. NAME

**stats** - displays statistics about resources.

## 8.30.2. SYNOPSIS

**stats** ['PATH']

## 8.30.3. EXAMPLES

`stats //containers/default`

Displays statistics about the default container.

`stats //containers/default/caches/mycache`

Displays statistics about the `mycache` cache.

## 8.30.4. SEE ALSO

`cd(1)`, `ls(1)`, `describe(1)`

# 8.31. TASK(1)

## 8.31.1. NAME

`task` - executes and uploads server-side tasks and scripts

## 8.31.2. SYNOPSIS

**task upload** --file='script' 'TASK\_NAME'

**task exec** ['TASK\_NAME']

## 8.31.3. EXAMPLES

`task upload --file=hello.js hello`

Uploads a script from a `hello.js` file and names it `hello`.

`task exec @@cache@names`

Runs a task that returns available cache names.

`task exec hello -Pgreetee=world`

Runs a script named `hello` and specifies the `greetee` parameter with a value of `world`.

## 8.31.4. OPTIONS

**-P, --parameters='PARAMETERS'**

Passes parameter values to tasks and scripts.

**-f, --file='FILE'**

Uploads script files with the given names.

### 8.31.5. SEE ALSO

ls(1)

## 8.32. UNALIAS(1)

### 8.32.1. NAME

unalias - deletes aliases.

### 8.32.2. SYNOPSIS

**unalias** 'ALIAS-NAME'

### 8.32.3. EXAMPLES

**unalias** q

Deletes the q alias.

### 8.32.4. SEE ALSO

config(1), alias(1)

## 8.33. USER(1)

### 8.33.1. NAME

user - manages \${infinispan.brand.name} users in property security realms.

### 8.33.2. SYNOPSIS

**user** ls

**user create** 'username'

**user describe** 'username'

**user remove** 'username'

**user password** 'username'

**user groups** 'username'

**user encrypt-all**

### 8.33.3. DESCRIPTION

Manage (list, create, describe, remove, modify) users stored in a property security realm. Note: You can use this command only with property realms.

## 8.33.4. COMMAND SYNOPSIS

### **user ls**

Lists the users or groups which are present in the property file.

### **user create 'username'**

Creates a user after prompting for a password.

### **user describe 'username'**

Describes a user, including its username, realm and any groups it belongs to.

### **user remove 'username'**

Removes the specified user from the property file.

### **user password 'username'**

Changes the password for a user.

### **user groups 'username'**

Sets the groups to which a user belongs.

### **user encrypt-all**

Encrypt all passwords in a plain-text user property file.

## 8.33.5. COMMON OPTIONS

These options apply to all commands:

### **-h, --help**

Displays a help page for the command or sub-command.

### **-s, --server-root='path-to-server-root'**

The path to the server root. Defaults to `server`.

### **-f, --users-file='users.properties'**

The name of the property file which contains the user passwords. Defaults to `users.properties`.

### **-w, --groups-file='groups.properties'**

The name of the property file which contains the user to groups mapping. Defaults to `groups.properties`.

## 8.33.6. USER CREATE/MODIFY OPTIONS

### **-a, --algorithms**

Specifies the algorithms used to hash the password.

### **-g, --groups='group1,group2,...'**

Specifies the groups to which the user belongs.

**-p, --password='password'**

Specifies the user's password.

**-r, --realm='realm'**

Specifies the realm name.

**--plain-text**

Whether passwords should be stored in plain-text (not recommended).

### 8.33.7. USER LS OPTIONS

**--groups**

Shows a list of groups instead of the users.

### 8.33.8. USER ENCRYPT-ALL OPTIONS

**-a, --algorithms**

Specifies the algorithms used to hash the password.

## 8.34. VERSION(1)

### 8.34.1. NAME

version - displays the server version and CLI version.

### 8.34.2. SYNOPSIS

**version**

### 8.34.3. EXAMPLE

**version**

Returns the version for the server and the CLI.

### 8.34.4. SEE ALSO

help(1)