

**NAME**

**bytemark** – command line client for managing services with Bytemark

**SYNOPSIS**

```
bytemark [--help] [--force] [--yubikey] [--debug-level num] [--user username]
[--account account_name] [--endpoint URL] [--billing-endpoint URL]
[--auth-endpoint URL] [--config-dir dir] [--yubikey-otp string] multi-word command
[command-specific options] [command arguments]
```

**DESCRIPTION**

**bytemark** is the command line client used to interact with services hosted at or provided by Bytemark (<https://www.bytemark.co.uk>). Supported operations are centred around the creation, management, and deletion of virtual machines hosted at Bytemark. Each command issued through the client will be translated to an operation in the API (<https://www.bytemark.co.uk/docs/api/>), meaning the client is responsible for authenticating with Bytemark and sending interpreted commands to a central server which determines and forwards the request to the relevant destination.

**OPTIONS**

Options are positional and global, applicable to any command, and must be specified before the command when invoking the **bytemark** client. Other options specific to each command must be specified immediately after the command and before any arguments relevant to that command.

```
bytemark [global options] command [command options] [command arguments]
```

**Global Options**

**--help** Instead of executing the specified command issue the documentation for that command. This will include documentation for each positional argument and option.

**--yubikey**

Instructs the client that when it authenticates it must do so with yubikey level authentication. If a token with this level of authentication is available it will be used, otherwise the client will prompt for yubikey input.

**--debug-level** *num*

Configures the debug level for the execution of the following command. This allows the client to show exactly what information is being sent and received from the brain for debugging purposes.

**--user** *username*

Specifies which *user* the client must authenticate as, you may wish to specify this explicitly when you are making an operation on an asset controlled by an *account* which has a different *account\_name* to the *username* you wish to authenticate as.

**--account** *account\_name*

This specifies, where not explicitly stated, which *account* the command executed should be in the context of. As with the **--user** option this is normally used in cases where a *user* needs to reference assets held by an *account* with a different *account\_name* to their *username*

**--endpoint** *URL***--billing-endpoint** *URL***--auth-endpoint** *URL*

These options allow the client to talk to a different *endpoint* than the default option. The endpoints are the servers the client talks to in order to authenticate, make queries, and issue commands and most users should use the default unless otherwise instructed.

**--config-dir** *dir*

The client reads in default settings and stores tokens in the configuration directory. Unless otherwise specified by this option it will default to *\$HOME/.bytemark*

**--yubikey-otp** *string*

Instead of being prompted for yubikey input this can be given when the **bytemark** program passing it in with this option.

## COMMANDS

Commands consist of one or more words which instruct the client what to do with each invocation. Information explaining what each command does and what its specific options are are available from the help text available by invoking the help command.

**bytemark** *help*

*help* on its own prints the generic help text which will present the user with a list of commands and topics which can then be further queried with the help command.

**bytemark** *help create server*

For example prints the help text for the *create server* command detailing usage and options.

Commands are otherwise written directly written after the **bytemark** clause (and any global options). See **EXAMPLES**.

## EXAMPLES

**bytemark** *create server --public-keys-file ~/.ssh/id\_rsa.pub stoneboat.http*

Creates the new server *stoneboat* in the *http* group and specifies also that the public key located at *~/.ssh/id\_rsa.pub* should be uploaded to the root and admin user on the server as part of the post-install process.

**bytemark** *show server stoneboat.http*

Print the hardware and networking configuration of a server named *stoneboat* in the *http* group - if the full qualifying name *name.group.account* or no group is specified then the client will search the default group and account for the invoking user.

**bytemark** *shutdown stoneboat.http*

Send the shutdown signal to the server *stoneboat.http* as if the power button had been pressed.

## FILES

*~/.bytemark*

All local configuration and temporary files are stored here.

*~/.bytemark/debug.log*

A history of recent commands and their output on the terminal which can be used when filing bug reports.

*~/.bytemark/token*

The authentication token is written when one command is authenticated and used for subsequent commands while it is still valid. It will only be valid for a fixed amount of time.

## AUTHORS

The **bytemark** command line client was written and is currently maintained by Telyn Z. Roat. The man page was written by Berin Smaldon.

## REPORTING BUGS

Right now you need to contact the Bytemark support team at **support@bytemark.co.uk** who will help verify bugs and file bug reports on your behalf.