Memcached: Getting started

How to start using Memcached

> 👋**Welcome on Stackhero's documentation!**
> Stackhero provides Memcached instances that are ready for production in just 2 minutes!
> Including TLS encryption (aka SSL), customizable domain name and updates in just a click.
> Try our managed Memcached cloud in just 2 minutes

Memcached is an extremely fast in-memory key/value system.

We have published some code examples to let you see how you can connect to your Memcached instance.
You will find them on the following git repository: https://github.com/stackhero-io/memcachedGettingStarted.

Encrypt Memcached communications (TLS)

Per default, Memcached does not encrypt communications.
On Stackhero we have added TLS encryption out of the box.

To use it, you should have a client compatible with TLS encryption. Unfortunately, there is a good chance that your client doesn't support it.
In that case, you can use the stunnel program on client server. It will listen locally on port 11211 (clear data) and forward data to your Stackhero instance on port 11212 (TLS encrypted).

Protect your Memcached from brute force attacks

Your Memcached is protected with a login and a password. This password is automatically pre-defined per Stackhero to be really strong.
If you change it, you should define an extremly complicated one.

Per security, and to definitely avoid brute force attacks, we invite you to configure Stackhero's firewall (in "Security shield" tab) to limit connections to only your IPs. This is very important and will improve a lot your security!

Configure Ruby on Rails cache store to use Memcached

You can use the clear connection or the encrypted one.
The clear connection will be faster but your traffic will not be encrypted.
We recommend to use ths TLS encryption version as it will be secured and still fast.

You will find more informations about Rails caching system on the official documentation: https://guides.rubyonrails.org/caching_with_rails.html.

Cache store without TLS encryption (SSL)

```
config.cache_store = :mem_cache_store,
                     "<STACKHERO_MEMCACHED_HOST>",
                     {
                       :username => "<STACKHERO_MEMCACHED_USER>",
                       :password => "<STACKHERO_MEMCACHED_PASSWORD>"
                     }
```

Cache store with TLS encryption (SSL)

```
require 'openssl'

ssl_context = OpenSSL::SSL::SSLContext.new
ssl_context.verify_hostname = true
ssl_context.verify_mode = OpenSSL::SSL::VERIFY_PEER

config.cache_store = :mem_cache_store,
                     "<STACKHERO_MEMCACHED_HOST>",
                     {
                       :username => "<STACKHERO_MEMCACHED_USER>",
                       :password => "<STACKHERO_MEMCACHED_PASSWORD>",
                       :ssl_context => ssl_context
                     }
```